Linear Patterns (General-Use)

FEATURES
- Gage patterns designed for measuring strain in a single direction
- Single-grid and parallel dual-grid patterns
- Gage lengths from 0.008" (0.20 mm) to 4.000" (101.6 mm)

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## General Purpose Strain Gages—Linear Pattern

### GAGE PATTERN DATA

![Diagram of Gage Pattern]

**Actual size**

<table>
<thead>
<tr>
<th>GAGE DESIGNATION</th>
<th>RESISTANCE (OHMS)</th>
<th>OPTIONS AVAILABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA-XX-015DJ-120</td>
<td>120 ± 0.3%</td>
<td>L, LE</td>
</tr>
<tr>
<td>EP-08-015DJ-120</td>
<td>120 ± 0.3%</td>
<td></td>
</tr>
<tr>
<td>SA-XX-015DJ-120</td>
<td>120 ± 0.6%</td>
<td></td>
</tr>
<tr>
<td>SK-XX-015DJ-120</td>
<td>120 ± 0.6%</td>
<td></td>
</tr>
</tbody>
</table>

### DESCRIPTION

Micro-miniature pattern with tab at each end of grid. See also 015EH pattern.

### GAGE DIMENSIONS

<table>
<thead>
<tr>
<th>Gage Length</th>
<th>Overall Length</th>
<th>Grid Width</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.015</td>
<td>0.100</td>
<td>0.020</td>
<td>0.020</td>
<td>0.23</td>
<td>0.12</td>
</tr>
<tr>
<td>0.38</td>
<td>2.54</td>
<td>0.51</td>
<td>0.51</td>
<td>5.8</td>
<td>3.0</td>
</tr>
</tbody>
</table>

### GAGE SERIES DATA

See Gage Series datasheet for complete specifications.

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Constantan foil in combination with a tough, flexible, polyimide backing.</td>
<td>±3%</td>
<td>-100°C to +350°F (-128°C to +177°C)</td>
</tr>
<tr>
<td>EP</td>
<td>Annealed constantan foil with tough, high-elongation polyimide backing.</td>
<td>±10%</td>
<td>-100°C to +400°F (-128°C to +205°C)</td>
</tr>
<tr>
<td>SA</td>
<td>Fully encapsulated constantan gages with solder dots.</td>
<td>±2%</td>
<td>-100°C to +400°F (-128°C to +205°C)</td>
</tr>
<tr>
<td>SK</td>
<td>Fully encapsulated K-alloy gages with solder dots.</td>
<td>±1.5%</td>
<td>-452°F to +450°F (-269°C to +230°C)</td>
</tr>
</tbody>
</table>

**Note 1:** Insert desired S-T-C number in spaces marked XX.

**Note 2:** Tolerance is increased when Option W, E, SF, L F, or P is specified.

**Note 3:** Products with designations and options shown in **bold** are not RoHS compliant.
General Purpose Strain Gages—Linear Pattern

**GAGE PATTERN DATA**

<table>
<thead>
<tr>
<th>GAGE DESIGNATION</th>
<th>RESISTANCE (OHMS)</th>
<th>OPTIONS AVAILABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>L2A-XX-015LW-120</td>
<td>120 ± 0.6%</td>
<td></td>
</tr>
<tr>
<td>C2A-XX-015LW-120</td>
<td>120 ± 0.6%</td>
<td></td>
</tr>
</tbody>
</table>

![Actual size](image)

**DESCRIPTION**

Widely used general-purpose gage.

**GAGE DIMENSIONS**

<table>
<thead>
<tr>
<th>Gage Length</th>
<th>Overall Length</th>
<th>Grid Width</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.015</td>
<td>0.052</td>
<td>0.020</td>
<td>0.034</td>
<td>0.075</td>
<td>0.054</td>
</tr>
<tr>
<td>0.38</td>
<td>1.32</td>
<td>0.50</td>
<td>0.86</td>
<td>1.90</td>
<td>1.37</td>
</tr>
</tbody>
</table>

**Legend**

- ES = Each Section
- S = Section (S1 = Section 1)
- CP = Complete Pattern
- M = Matrix

**GAGE SERIES DATA** — See Gage Series datasheet for complete specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>C2A</td>
<td>Encapsulated constantan gages with preattached ready-to-use cables.</td>
<td>±3%</td>
<td>-60° to +180°F (-50° to +80°C)</td>
</tr>
</tbody>
</table>

![Example of an L2A Construction](image)

![Example of an C2A Construction](image)

**Note 1:** Insert desired S-T-C number in spaces marked XX.
### General Purpose Strain Gages—Linear Pattern

#### GAGE PATTERN DATA

![Image of gage pattern](image)

**Legend**
- ES = Each Section
- S = Section (S1 = Section 1)
- CP = Complete Pattern
- M = Matrix

**GAGE DIMENSIONS**

<table>
<thead>
<tr>
<th>Gage Length</th>
<th>Overall Length</th>
<th>Grid Width</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.015</td>
<td>0.140</td>
<td>0.020</td>
<td>0.105</td>
<td>0.24</td>
<td>0.18</td>
</tr>
<tr>
<td>0.38</td>
<td>3.56</td>
<td>0.51</td>
<td>2.67</td>
<td>6.1</td>
<td>4.6</td>
</tr>
</tbody>
</table>

**DESCRIPTION**
Micro-miniature pattern. Exposed solder tab area is 0.06 x 0.04 (1.5 x 1.0 mm). See also 015CK pattern

**OPTIONS AVAILABLE**

<table>
<thead>
<tr>
<th>GAGE DESIGNATION</th>
<th>RESISTANCE (OHMS)</th>
<th>OPTIONS AVAILABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEA-XX-015UW-120</td>
<td>120 ± 0.3%</td>
<td></td>
</tr>
</tbody>
</table>

**GAGE SERIES DATA** — See Gage Series datasheet for complete specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEA</td>
<td>Universal general-purpose strain gages.</td>
<td>±3%</td>
<td>-100° to +350°F (-75° to +175°C)</td>
</tr>
</tbody>
</table>

Note 1: Insert desired S-T-C number in spaces marked XX.
# General Purpose Strain Gages—Linear Pattern

## GAGE PATTERN DATA

![Gage Pattern Image](image)

**Legend**

- **M** = Matrix
- **ES** = Each Section
- **S** = Section (S1 = Section 1)
- **CP** = Complete Pattern

<table>
<thead>
<tr>
<th>GAGE DIMENSIONS</th>
<th>ES = Each Section</th>
<th>S = Section (S1 = Section 1)</th>
<th>CP = Complete Pattern</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gage Length</td>
<td>Overall Length</td>
<td>Grid Width</td>
<td>Overall Width</td>
</tr>
<tr>
<td>0.031</td>
<td>0.076</td>
<td>0.062</td>
<td>0.062</td>
</tr>
<tr>
<td>0.79</td>
<td>1.93</td>
<td>1.57</td>
<td>1.57</td>
</tr>
</tbody>
</table>

**RESISTANCE (OHMS)**

<table>
<thead>
<tr>
<th>GAGE DESIGNATION</th>
<th>350 ± 0.2%</th>
<th>350 ± 0.4%</th>
<th>350 ± 0.2%</th>
<th>350 ± 0.4%</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA-XX-031CE-350</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WA-XX-031CE-350</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EP-XX-031CE-350</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SA-XX-031CE-350</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**OPTIONS AVAILABLE**

- **W**, **E**, **L**, **LE**, **P**

**DESCRIPTION**

General-purpose high-resistance miniature gage.

## GAGE SERIES DATA

See Gage Series datasheet for complete specifications.

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Constantan foil in combination with a tough, flexible, polyimide backing.</td>
<td>±3%</td>
<td>-100°F to +350°F (-75°C to +175°C)</td>
</tr>
<tr>
<td>WA</td>
<td>Fully encapsulated constantan gages with high-endurance leadwires.</td>
<td>±2%</td>
<td>-100°F to +400°F (-75°C to +205°C)</td>
</tr>
<tr>
<td>EP</td>
<td>Annealed constantan foil with tough, high-elongation polyimide backing.</td>
<td>±10%</td>
<td>-100°F to +400°F (-75°C to +205°C)</td>
</tr>
<tr>
<td>SA</td>
<td>Fully encapsulated constantan gages with solder dots.</td>
<td>±2%</td>
<td>-100°F to +400°F (-75°C to +205°C)</td>
</tr>
</tbody>
</table>

**Note 1:** Insert desired S-T-C number in spaces marked XX.

**Note 2:** Tolerance is increased when Option W, EP, LE, or P is specified.

**Note 3:** Products with designations and options shown in bold are not RoHS compliant.
General Purpose Strain Gages—Linear Pattern

**GAGE PATTERN DATA**

<table>
<thead>
<tr>
<th>GAGE DESIGNATION</th>
<th>RESISTANCE (Ohms)</th>
<th>OPTIONS AVAILABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA-XX-031CF-120</td>
<td>120 ± 0.2%</td>
<td>W, E, L, LE, P</td>
</tr>
<tr>
<td>ED-DY-031CF-350</td>
<td>350 ± 0.4%</td>
<td>E, L*, LE*</td>
</tr>
<tr>
<td>WA-XX-031CF-120</td>
<td>120 ± 0.4%</td>
<td></td>
</tr>
<tr>
<td>WK-XX-031CF-350</td>
<td>350 ± 0.4%</td>
<td></td>
</tr>
<tr>
<td>EP-08-031CF-120</td>
<td>120 ± 0.2%</td>
<td></td>
</tr>
<tr>
<td>SA-XX-031CF-120</td>
<td>120 ± 0.4%</td>
<td></td>
</tr>
<tr>
<td>SK-XX-031CF-350</td>
<td>350 ± 0.4%</td>
<td></td>
</tr>
<tr>
<td>SD-DY-031CF-350</td>
<td>350 ± 0.8%</td>
<td></td>
</tr>
</tbody>
</table>

**DESCRIPTION**

General-purpose miniature gage. Similar to 031CE pattern except for resistance. See also 032UW pattern.

**GAGE DIMENSIONS**

<table>
<thead>
<tr>
<th>Gage Length</th>
<th>Overall Length</th>
<th>Grid Width</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.031</td>
<td>0.076</td>
<td>0.062</td>
<td>0.062</td>
<td>0.19</td>
<td>0.14</td>
</tr>
<tr>
<td>0.79</td>
<td>1.93</td>
<td>1.57</td>
<td>1.57</td>
<td>4.8</td>
<td>3.5</td>
</tr>
</tbody>
</table>

**GAGE SERIES DATA** — See Gage Series datasheet for complete specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Constant foil in combination with a tough, flexible, polyimide backing.</td>
<td>±3%</td>
<td>-100°F to +350°F (-75°C to +175°C)</td>
</tr>
<tr>
<td>ED</td>
<td>Isoelastic foil in combination with tough, flexible polyimide film.</td>
<td>±2%</td>
<td>-320°F to +400°F (-195°C to +205°C)</td>
</tr>
<tr>
<td>WA</td>
<td>Fully encapsulated constant gages with high-endurance leadwires.</td>
<td>±2%</td>
<td>-100°F to +400°F (-75°C to +205°C)</td>
</tr>
<tr>
<td>WK</td>
<td>Fully encapsulated K-alloy gages with high-endurance leadwires.</td>
<td>±1.5%</td>
<td>-452°F to +550°F (-269°C to +290°C)</td>
</tr>
<tr>
<td>EP</td>
<td>Annealed constant foil with tough, high-elongation polyimide backing.</td>
<td>±10%</td>
<td>-100°F to +400°F (-75°C to +205°C)</td>
</tr>
<tr>
<td>SA</td>
<td>Fully encapsulated constant gages with solder dots.</td>
<td>±2%</td>
<td>-100°F to +400°F (-75°C to +205°C)</td>
</tr>
<tr>
<td>SK</td>
<td>Fully encapsulated K-alloy gages with solder dots.</td>
<td>±1.5%</td>
<td>-452°F to +50°F (-269°C to +230°C)</td>
</tr>
<tr>
<td>SD</td>
<td>Equivalent to WD Series, but with solder dots instead of leadwires.</td>
<td>±1.5%</td>
<td>-320°F to +400°F (-195°C to +205°C)</td>
</tr>
</tbody>
</table>

**Note 1:** Insert desired S-T-C number in spaces marked XX.

**Note 2:** Tolerance is increased when Option W, E, SC, LE, or P is specified.

**Note 3:** Products with designations and options shown in **bold** are not RoHS compliant.

*Options available but not normally recommended. See Optional Features data sheet for details.*
# General Purpose Strain Gages—Linear Pattern

## GAGE PATTERN DATA

<table>
<thead>
<tr>
<th>GAGE DESIGNATION</th>
<th>RESISTANCE (OHMS)</th>
<th>OPTIONS AVAILABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Note 1, 3</td>
<td>See Note 2</td>
<td>See Note 3</td>
</tr>
<tr>
<td>EA-XX-031DE-120</td>
<td>120 ± 0.2%</td>
<td>E, SE, L, LE</td>
</tr>
<tr>
<td>EA-XX-031DE-350</td>
<td>350 ± 0.2%</td>
<td>E, SE, L, LE</td>
</tr>
<tr>
<td>ED-DY-031DE-350</td>
<td>120 ± 0.4%</td>
<td>E, L*, LE*</td>
</tr>
<tr>
<td>WA-XX-031DE-120</td>
<td>350 ± 0.4%</td>
<td></td>
</tr>
<tr>
<td>WA-XX-031DE-350</td>
<td>120 ± 0.2%</td>
<td></td>
</tr>
<tr>
<td>WK-XX-031DE-350</td>
<td>350 ± 0.4%</td>
<td></td>
</tr>
<tr>
<td>EP-XX-031DE-120</td>
<td>120 ± 0.2%</td>
<td></td>
</tr>
<tr>
<td>SA-XX-031DE-350</td>
<td>350 ± 0.4%</td>
<td></td>
</tr>
<tr>
<td>SA-XX-031DE-120</td>
<td>120 ± 0.4%</td>
<td></td>
</tr>
<tr>
<td>SK-XX-031DE-350</td>
<td>350 ± 0.4%</td>
<td></td>
</tr>
<tr>
<td>SK-XX-031DE-120</td>
<td>120 ± 0.4%</td>
<td></td>
</tr>
<tr>
<td>SD-DY-031DE-350</td>
<td>350 ± 0.8%</td>
<td></td>
</tr>
</tbody>
</table>

## DESCRIPTION

General-purpose miniature gage.

## GAGE DIMENSIONS

<table>
<thead>
<tr>
<th>Gage Length</th>
<th>Overall Length</th>
<th>Grid Width</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.031</td>
<td>0.140</td>
<td>0.032</td>
<td>0.032</td>
<td>0.27</td>
<td>0.12</td>
</tr>
<tr>
<td>0.79</td>
<td>3.56</td>
<td>0.81</td>
<td>0.81</td>
<td>6.9</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Legend**

- **ES** = Each Section
- **S** = Section (S1 = Section 1)
- **CP** = Complete Pattern
- **M** = Matrix

**GAGE SERIES DATA** — See Gage Series datasheet for complete specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Constantan foil in combination with a tough, flexible, polyimide backing.</td>
<td>±3%</td>
<td>-100°C to +350°C (-75°C to +175°C)</td>
</tr>
<tr>
<td>ED</td>
<td>Isoelastic foil in combination with tough, flexible polyimide film.</td>
<td>±2%</td>
<td>-320°C to +400°C (-195°C to +205°C)</td>
</tr>
<tr>
<td>WA</td>
<td>Fully encapsulated constantan gages with high-endurance leadwires.</td>
<td>±2%</td>
<td>-100°C to +400°C (-75°C to +205°C)</td>
</tr>
<tr>
<td>WK</td>
<td>Fully encapsulated K-alloy gages with high-endurance leadwires.</td>
<td>±1.5%</td>
<td>-52°C to +550°C (-269°C to +290°C)</td>
</tr>
<tr>
<td>EP</td>
<td>Annealed constantan foil with tough, high-elongation polyimide backing.</td>
<td>±10%</td>
<td>-100°C to +400°C (-75°C to +205°C)</td>
</tr>
<tr>
<td>SA</td>
<td>Fully encapsulated constantan gages with solder dots.</td>
<td>±2%</td>
<td>-100°C to +400°C (-75°C to +205°C)</td>
</tr>
<tr>
<td>SK</td>
<td>Fully encapsulated K-alloy gages with solder dots.</td>
<td>±1.5%</td>
<td>-452°C to +450°C (-269°C to +230°C)</td>
</tr>
<tr>
<td>SD</td>
<td>Equivalent to WD Series, but with solder dots instead of leadwires.</td>
<td>±1.5%</td>
<td>-320°C to +400°C (-195°C to +205°C)</td>
</tr>
</tbody>
</table>

**Note 1:** Insert desired S-T-C number in spaces marked XX.

**Note 2:** Tolerance is increased when Option W, E, SE, LE, or P is specified.

**Note 3:** Products with designations and options shown in **bold** are not RoHS compliant.

*Options available but not normally recommended. See Optional Features data sheet for details.*
# General Purpose Strain Gages—Linear Pattern

## GAGE PATTERN DATA

![Gage Pattern Diagram]  
*actual size*

<table>
<thead>
<tr>
<th>GAGE DESIGNATION</th>
<th>RESISTANCE (OHMS)</th>
<th>OPTIONS AVAILABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA-XX-031EC-120</td>
<td>120 ± 0.2%</td>
<td>E, SE, L, LE</td>
</tr>
<tr>
<td>EA-XX-031EC-350</td>
<td>350 ± 0.2%</td>
<td>E, SE, L, LE</td>
</tr>
<tr>
<td>ED-DY-031EC-350</td>
<td>120 ± 0.4%</td>
<td>E, L*, LE*</td>
</tr>
<tr>
<td>WA-XX-031EC-120</td>
<td>120 ± 0.4%</td>
<td></td>
</tr>
<tr>
<td>WA-XX-031EC-350</td>
<td>350 ± 0.4%</td>
<td></td>
</tr>
<tr>
<td>WK-XX-031EC-350</td>
<td>350 ± 0.4%</td>
<td></td>
</tr>
<tr>
<td>EP-08-031EC-120</td>
<td>120 ± 0.4%</td>
<td></td>
</tr>
<tr>
<td>SA-XX-031EC-120</td>
<td>120 ± 0.4%</td>
<td></td>
</tr>
<tr>
<td>SA-XX-031EC-350</td>
<td>350 ± 0.4%</td>
<td></td>
</tr>
<tr>
<td>SK-XX-031EC-120</td>
<td>120 ± 0.4%</td>
<td></td>
</tr>
<tr>
<td>SK-XX-031EC-350</td>
<td>350 ± 0.4%</td>
<td></td>
</tr>
<tr>
<td>SD-DY-031EC-350</td>
<td>350 ± 0.8%</td>
<td></td>
</tr>
</tbody>
</table>

## DESCRIPTION

General-purpose miniature gage. Similar to 031DE pattern but with tab at each side of grid.

## GAGE DIMENSIONS

<table>
<thead>
<tr>
<th>Gage Length</th>
<th>Overall Length</th>
<th>Grid Width</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.031</td>
<td>0.042</td>
<td>0.032</td>
<td>0.140</td>
<td>0.17</td>
<td>0.23</td>
</tr>
<tr>
<td>0.79</td>
<td>1.07</td>
<td>0.81</td>
<td>3.56</td>
<td>4.3</td>
<td>5.8</td>
</tr>
</tbody>
</table>

## GAGE SERIES DATA

See Gage Series datasheet for complete specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Constant foil in combination with a tough, flexible, polyimide backing.</td>
<td>±3%</td>
<td>−100°F to +350°F (−75°C to +175°C)</td>
</tr>
<tr>
<td>ED</td>
<td>Isoelastic foil in combination with tough, flexible polyimide film.</td>
<td>±2%</td>
<td>−320°F to +400°F (−195°C to +205°C)</td>
</tr>
<tr>
<td>WA</td>
<td>Fully encapsulated constantan gages with high-endurance leadwires.</td>
<td>±2%</td>
<td>−100°F to +400°F (−75°C to +205°C)</td>
</tr>
<tr>
<td>WK</td>
<td>Fully encapsulated K-alloy gages with high-endurance leadwires.</td>
<td>±1.5%</td>
<td>−452°F to +550°F (−269°C to +290°C)</td>
</tr>
<tr>
<td>EP</td>
<td>Annealed constantan foil with tough, high-elongation polyimide backing.</td>
<td>±10%</td>
<td>−100°F to +400°F (−75°C to +205°C)</td>
</tr>
<tr>
<td>SA</td>
<td>Fully encapsulated constantan gages with solder dots.</td>
<td>±2%</td>
<td>−100°F to +400°F (−75°C to +205°C)</td>
</tr>
<tr>
<td>SK</td>
<td>Fully encapsulated K-alloy gages with solder dots.</td>
<td>±1.5%</td>
<td>−452°F to +550°F (−269°C to +290°C)</td>
</tr>
<tr>
<td>SD</td>
<td>Equivalent to WD Series, but with solder dots instead of leadwires.</td>
<td>±1.5%</td>
<td>−320°F to +400°F (−195°C to +205°C)</td>
</tr>
</tbody>
</table>

**Note 1:** Insert desired S-T-C number in spaces marked XX.

**Note 2:** Tolerance is increased when Option W, E, SE, LE, or P is specified.

**Note 3:** Products with designations and options shown in **bold** are not RoHS compliant.

*Options available but not normally recommended. See Optional Features data sheet for details.
# General Purpose Strain Gages—Linear Pattern

## GAGE PATTERN DATA

<table>
<thead>
<tr>
<th>GAGE DESIGNATION</th>
<th>RESISTANCE (OHMS)</th>
<th>OPTIONS AVAILABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEA-XX-032UW-120</td>
<td>120 ± 0.3%</td>
<td>P2</td>
</tr>
<tr>
<td>CEA-XX-032UW-350</td>
<td>350 ± 0.3%</td>
<td>P2</td>
</tr>
</tbody>
</table>

**DESCRIPTION**

General-purpose miniature gage. Exposed solder tab area is 0.07 x 0.04 in [1.8 x 1.0 mm].

![Actual size image](image)

## GAGE DIMENSIONS

<table>
<thead>
<tr>
<th>Gage Length</th>
<th>Overall Length</th>
<th>Grid Width</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.032</td>
<td>0.180</td>
<td>0.060</td>
<td>0.120</td>
<td>0.27</td>
<td>0.19</td>
</tr>
<tr>
<td>0.81</td>
<td>4.57</td>
<td>1.52</td>
<td>3.05</td>
<td>6.9</td>
<td>4.8</td>
</tr>
</tbody>
</table>

## GAGE SERIES DATA

See Gage Series datasheet for complete specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEA</td>
<td>Universal general-purpose strain gages.</td>
<td>±3%</td>
<td>-100° to +350°F (-75° to +175°C)</td>
</tr>
</tbody>
</table>

**Note 1:** Insert desired S-T-C number in spaces marked XX.

**Note 2:** Products with designations and options shown in **bold** are not RoHS compliant.
# General Purpose Strain Gages—Linear Pattern

## GAGE PATTERN DATA

![Image of strain gage pattern](image)

**Legend**

- **ES** = Each Section
- **S** = Section (S1 = Section 1)
- **CP** = Complete Pattern
- **M** = Matrix

<table>
<thead>
<tr>
<th>GAGE DIMENSIONS</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ES = Each Section</strong></td>
<td><strong>S = Section (S1 = Section 1)</strong></td>
<td><strong>CP = Complete Pattern</strong></td>
</tr>
<tr>
<td><strong>M = Matrix</strong></td>
<td><strong>inch</strong></td>
<td><strong>millimeter</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Gage Length</th>
<th>Overall Length</th>
<th>ES</th>
<th>S</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.060 ES</td>
<td>0.120 CP</td>
<td>0.065 ES</td>
<td>0.150 CP</td>
<td>0.18</td>
<td>0.20</td>
<td></td>
</tr>
<tr>
<td>1.52 ES</td>
<td>3.05 CP</td>
<td>1.65 ES</td>
<td>3.81 CP</td>
<td>4.6</td>
<td>5.1</td>
<td></td>
</tr>
</tbody>
</table>

## DESCRIPTION

Dual pattern for back-to-back bending sections. Longitudinal grid centerlines spaced 0.085 in (2.16 mm) apart.

## GAGE SERIES DATA

See Gage Series datasheet for complete specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Constantan foil in combination with a tough, flexible, polyimide backing.</td>
<td>±3%</td>
<td>-100°F to +350°F (~-75°C to +175°C)</td>
</tr>
<tr>
<td>WA</td>
<td>Fully encapsulated constantan gages with high-endurance leadwires.</td>
<td>±2%</td>
<td>-100°F to +400°F (~-75°C to +205°C)</td>
</tr>
<tr>
<td>WK</td>
<td>Fully encapsulated K-alloy gages with high-endurance leadwires.</td>
<td>±1.5%</td>
<td>-452°F to +550°F (~-269°C to +290°C)</td>
</tr>
<tr>
<td>SA</td>
<td>Fully encapsulated constantan gages with solder dots.</td>
<td>±2%</td>
<td>-100°F to +400°F (~-75°C to +205°C)</td>
</tr>
<tr>
<td>SK</td>
<td>Fully encapsulated K-alloy gages with solder dots.</td>
<td>±1.5%</td>
<td>-452°F to +450°F (~-269°C to +230°C)</td>
</tr>
</tbody>
</table>

**Note 1:** Insert desired S-T-C number in spaces marked XX.

**Note 2:** Temperature is increased when Option W, R, SR, LF, or P is specified.

**Note 3:** Products with designations and options shown in **bold** are not RoHS compliant.

*Options available but not normally recommended. See Optional Features data sheet for details.*
General Purpose Strain Gages—Linear Pattern

### GAGE PATTERN DATA

| EA-XX-062AK-120 | 120 ± 0.15% |
| ED-DY-062AK-350 | 350 ± 0.4%  |
| EP-08-062AK-120 | 120 ± 0.15% |

**OPTIONS AVAILABLE**

E, P

**DESCRIPTION**

General-purpose gage with elongated solder tabs. See the 062AP pattern for WA, WK, and other series with this grid size.

### GAGE DIMENSIONS

<table>
<thead>
<tr>
<th>Gage</th>
<th>Overall</th>
<th>Grid</th>
<th>Overall</th>
<th>Matrix</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA-XX-062AK-120</td>
<td>0.160</td>
<td>0.062</td>
<td>0.062</td>
<td>0.27</td>
<td>6.9</td>
</tr>
<tr>
<td>ED-DY-062AK-350</td>
<td>0.160</td>
<td>0.062</td>
<td>0.062</td>
<td>0.27</td>
<td>6.9</td>
</tr>
<tr>
<td>EP-08-062AK-120</td>
<td>0.160</td>
<td>0.062</td>
<td>0.062</td>
<td>0.27</td>
<td>6.9</td>
</tr>
</tbody>
</table>

### GAGE SERIES DATA

- **EA**: Constantan foil in combination with a tough, flexible, polyimide backing. ±3% Strain Range: -100°F to +350°F (-75°C to +175°C)
- **ED**: Isoelastic foil in combination with tough, flexible polyimide film. ±2% Strain Range: -320°F to +400°F (-195°C to +205°C)
- **EP**: Annealed constantan foil with tough, high-elongation polyimide backing. ±10% Strain Range: -100°F to +400°F (-75°C to +205°C)

**Note 1**: Insert desired S-T-C number in spaces marked XX.

**Note 2**: Tolerance is increased when Option W, E, SF, LF, or P is specified.

**Note 3**: Products with designations and options shown in **bold** are not RoHS compliant.
General Purpose Strain Gages—Linear Pattern

GAGE PATTERN DATA

<table>
<thead>
<tr>
<th>GAGE DESIGNATION</th>
<th>RESISTANCE (OHMS)</th>
<th>OPTIONS AVAILABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA-XX-062AP-120</td>
<td>120 ± 0.15%</td>
<td>W, E, L, LE, P</td>
</tr>
<tr>
<td>ED-YY-062AP-350</td>
<td>350 ± 0.4%</td>
<td>E, L', LE*</td>
</tr>
<tr>
<td>EK-XX-062AP-350</td>
<td>120 ± 0.15%</td>
<td>W, SE</td>
</tr>
<tr>
<td>WA-XX-062AP-120</td>
<td>350 ± 0.3%</td>
<td>W*</td>
</tr>
<tr>
<td>WK-XX-062AP-350</td>
<td>120 ± 0.3%</td>
<td></td>
</tr>
<tr>
<td>EP-XX-062AP-120</td>
<td>350 ± 0.3%</td>
<td></td>
</tr>
<tr>
<td>SA-XX-062AP-120</td>
<td>350 ± 0.8%</td>
<td></td>
</tr>
<tr>
<td>SK-XX-062AP-350</td>
<td>350 ± 0.8%</td>
<td></td>
</tr>
<tr>
<td>SD-YY-062AP-350</td>
<td>350 ± 0.8%</td>
<td></td>
</tr>
<tr>
<td>WD-YY-062AP-350</td>
<td>350 ± 0.8%</td>
<td></td>
</tr>
</tbody>
</table>

DESCRIPTION

Widely used general-purpose gage. See also 062UW pattern. EK-Series gages are supplied with duplex copper pads (DP) when optional feature W or SE is not specified.

GAGE DIMENSIONS

<table>
<thead>
<tr>
<th>Gage Length</th>
<th>Overall Length</th>
<th>Grid Width</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.062</td>
<td>0.114</td>
<td>0.062</td>
<td>0.062</td>
<td>0.26</td>
<td>0.16</td>
</tr>
<tr>
<td>1.57</td>
<td>2.90</td>
<td>1.57</td>
<td>1.57</td>
<td>6.8</td>
<td>4.1</td>
</tr>
</tbody>
</table>

Legend

ES = Each Section
S = Section (S1 = Section 1)
CP = Complete Pattern
M = Matrix

inch
millimeter

GAGE SERIES DATA — See Gage Series datasheet for complete specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Constantan foil in combination with a tough, flexible, polyimide backing.</td>
<td>±3%</td>
<td>−100°F to +350°F (−75°C to +175°C)</td>
</tr>
<tr>
<td>ED</td>
<td>Isoelastic foil in combination with tough, flexible polyimide film.</td>
<td>±2%</td>
<td>−320°F to +400°F (−195°C to +205°C)</td>
</tr>
<tr>
<td>EK</td>
<td>K-alloy foil in combination with a tough, flexible polyimide backing.</td>
<td>±1.5%</td>
<td>−320°F to +350°F (−195°C to +175°C)</td>
</tr>
<tr>
<td>WA</td>
<td>Fully encapsulated constantan gages with high-endurance leadwires.</td>
<td>±2%</td>
<td>−100°F to +400°F (−75°C to +205°C)</td>
</tr>
<tr>
<td>WK</td>
<td>Fully encapsulated K-alloy gages with high-endurance leadwires.</td>
<td>±1.5%</td>
<td>−452°F to +550°F (−269°C to +290°C)</td>
</tr>
<tr>
<td>EP</td>
<td>Annealed constantan foil with tough, high-elongation polyimide backing.</td>
<td>±10%</td>
<td>−100°F to +400°F (−75°C to +205°C)</td>
</tr>
<tr>
<td>SA</td>
<td>Fully encapsulated constantan gages with solder dots.</td>
<td>±2%</td>
<td>−100°F to +400°F (−75°C to +205°C)</td>
</tr>
<tr>
<td>SK</td>
<td>Fully encapsulated K-alloy gages with solder dots.</td>
<td>±1.5%</td>
<td>−452°F to +450°F (−269°C to +230°C)</td>
</tr>
<tr>
<td>SD</td>
<td>Equivalent to WD Series, but with solder dots instead of leadwires.</td>
<td>±1.5%</td>
<td>−320°F to +400°F (−195°C to +205°C)</td>
</tr>
<tr>
<td>WD</td>
<td>Fully encapsulated isoelastic gages with high-endurance leadwires.</td>
<td>±1.5%</td>
<td>−320°F to +500°F (−195°C to +260°C)</td>
</tr>
</tbody>
</table>

Note 1: Insert desired S-T-C number in spaces marked XX.
Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.
Note 3: Products with designations and options shown in bold are not RoHS compliant.
*Options available but not normally recommended. See Optional Features data sheet for details.
General Purpose Strain Gages—Linear Pattern

**GAGE PATTERN DATA**

<table>
<thead>
<tr>
<th>GAGE DESIGNATION</th>
<th>RESISTANCE (OHMS)</th>
<th>OPTIONS AVAILABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA-XX-062AQ-350</td>
<td>350 ± 0.15%</td>
<td>W, E, L, LE, P</td>
</tr>
<tr>
<td>ED-DY-062AQ-500</td>
<td>500 ± 0.4%</td>
<td>E, L*, LE*</td>
</tr>
<tr>
<td>WA-XX-062AQ-350</td>
<td>350 ± 0.3%</td>
<td>W*</td>
</tr>
<tr>
<td>WK-XX-062AQ-500</td>
<td>500 ± 0.3%</td>
<td></td>
</tr>
<tr>
<td>EP-08-062AQ-350</td>
<td>350 ± 0.15%</td>
<td></td>
</tr>
<tr>
<td>SA-XX-062AQ-350</td>
<td>350 ± 0.3%</td>
<td></td>
</tr>
<tr>
<td>SK-XX-062AQ-500</td>
<td>500 ± 0.3%</td>
<td></td>
</tr>
<tr>
<td>SD-DY-062AQ-500</td>
<td>500 ± 0.8%</td>
<td></td>
</tr>
<tr>
<td>WD-DY-062AQ-500</td>
<td>500 ± 0.8%</td>
<td></td>
</tr>
</tbody>
</table>

**DESCRIPTION**

General-purpose gage. Similar to 062AP pattern but with high-resistance grid. See also 062UW pattern.

**GAGE DIMENSIONS**

<table>
<thead>
<tr>
<th>Gage Length</th>
<th>Overall Length</th>
<th>Grid Width</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.062</td>
<td>0.114</td>
<td>0.062</td>
<td>0.062</td>
<td>0.26</td>
<td>0.15</td>
</tr>
<tr>
<td>1.57</td>
<td>2.90</td>
<td>1.57</td>
<td>1.57</td>
<td>6.6</td>
<td>3.8</td>
</tr>
</tbody>
</table>

**Legend**

ES = Each Section
S = Section (S1 = Section 1)
CP = Complete Pattern
M = Matrix

**GAGE SERIES DATA** — See Gage Series datasheet for complete specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Constantan foil in combination with a tough, flexible, polyimide backing.</td>
<td>±3%</td>
<td>-100° to +350°F (~75° to +175°C)</td>
</tr>
<tr>
<td>ED</td>
<td>Isoelastic foil in combination with tough, flexible polyimide film.</td>
<td>±2%</td>
<td>-320° to +400°F (~195° to +205°C)</td>
</tr>
<tr>
<td>WA</td>
<td>Fully encapsulated constantan gages with high-endurance leadwires.</td>
<td>±2%</td>
<td>-100° to +400°F (~75° to +205°C)</td>
</tr>
<tr>
<td>WK</td>
<td>Fully encapsulated K-alloy gages with high-endurance leadwires.</td>
<td>±1.5%</td>
<td>-452° to +550°F (~269° to +290°C)</td>
</tr>
<tr>
<td>EP</td>
<td>Annealed constantan foil with tough, high-elongation polyimide backing.</td>
<td>±10%</td>
<td>-100° to +400°F (~75° to +205°C)</td>
</tr>
<tr>
<td>SA</td>
<td>Fully encapsulated constantan gages with solder dots.</td>
<td>±2%</td>
<td>-100° to +400°F (~75° to +205°C)</td>
</tr>
<tr>
<td>SK</td>
<td>Fully encapsulated K-alloy gages with solder dots.</td>
<td>±1.5%</td>
<td>-452° to +450°F (~269° to +230°C)</td>
</tr>
<tr>
<td>SD</td>
<td>Equivalent to WD Series, but with solder dots instead of leadwires.</td>
<td>±1.5%</td>
<td>-320° to +400°F (~195° to +205°C)</td>
</tr>
<tr>
<td>WD</td>
<td>Fully encapsulated isoelastic gages with high-endurance leadwires.</td>
<td>±1.5%</td>
<td>-320° to +500°F (~195° to +260°C)</td>
</tr>
</tbody>
</table>

**Note 1:** Insert desired S-T-C number in spaces marked XX.

**Note 2:** Tolerance is increased when Option W, F, SF, LF, or P is specified.

**Note 3:** Products with designations and options shown in **bold** are not RoHS compliant.

*Options available but not normally recommended. See Optional Features data sheet for details.
General Purpose Strain Gages—Linear Pattern

GAGE PATTERN DATA

<table>
<thead>
<tr>
<th>GAGE DESIGNATION</th>
<th>RESISTANCE (OHMS)</th>
<th>OPTIONS AVAILABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Note 1, 3</td>
<td>See Note 2</td>
<td>See Note 3</td>
</tr>
<tr>
<td>EA-XX-062DN-350</td>
<td>350 ± 0.15%</td>
<td>E, L, LE</td>
</tr>
<tr>
<td>ED-DY-062DN-500</td>
<td>500 ± 0.4%</td>
<td>E, L, LE, LE*</td>
</tr>
<tr>
<td>WA-XX-062DN-350</td>
<td>350 ± 0.3%</td>
<td></td>
</tr>
<tr>
<td>WK-XX-062DN-500</td>
<td>500 ± 0.3%</td>
<td></td>
</tr>
<tr>
<td>EP-08-062DN-350</td>
<td>350 ± 0.15%</td>
<td></td>
</tr>
<tr>
<td>SA-XX-062DN-350</td>
<td>350 ± 0.3%</td>
<td></td>
</tr>
<tr>
<td>SK-XX-062DN-500</td>
<td>500 ± 0.3%</td>
<td></td>
</tr>
<tr>
<td>SD-DY-062DMN-500</td>
<td>500 ± 0.8%</td>
<td></td>
</tr>
<tr>
<td>WD-DY-062DN-500</td>
<td>500 ± 0.8%</td>
<td></td>
</tr>
</tbody>
</table>

DESCRIPTION

Similar to 062DF pattern except for grid resistance.

GAGE DIMENSIONS

<table>
<thead>
<tr>
<th>Gage Length</th>
<th>Overall Length</th>
<th>Grid Width</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.062</td>
<td>0.190</td>
<td>0.062</td>
<td>0.062</td>
<td>0.34</td>
<td>0.18</td>
</tr>
<tr>
<td>1.57</td>
<td>4.83</td>
<td>1.57</td>
<td>1.57</td>
<td>8.6</td>
<td>4.6</td>
</tr>
</tbody>
</table>

GAGE SERIES DATA — See Gage Series datasheet for complete specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Constantan foil in combination with a tough,</td>
<td>±3%</td>
<td>-100° to +350°F</td>
</tr>
<tr>
<td></td>
<td>flexible, polyimide back.</td>
<td></td>
<td>(-75° to +175°C)</td>
</tr>
<tr>
<td>ED</td>
<td>Isoelastic foil in combination with tough,</td>
<td>±2%</td>
<td>-320° to +400°F</td>
</tr>
<tr>
<td></td>
<td>flexible polyimide film.</td>
<td></td>
<td>(-195° to +205°C)</td>
</tr>
<tr>
<td>WA</td>
<td>Fully encapsulated constant gages with high-endurance leadwires.</td>
<td>±2%</td>
<td>-100° to +400°F</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(-75° to +205°C)</td>
</tr>
<tr>
<td>WK</td>
<td>Fully encapsulated K-alloy gages with high-</td>
<td>±1.5%</td>
<td>-452° to +550°F</td>
</tr>
<tr>
<td></td>
<td>endurance leadwires.</td>
<td></td>
<td>(-269° to +290°C)</td>
</tr>
<tr>
<td>EP</td>
<td>Annealed constantan foil with tough, high-</td>
<td>±10%</td>
<td>-100° to +400°F</td>
</tr>
<tr>
<td></td>
<td>elongation polyimide back.</td>
<td></td>
<td>(-75° to +205°C)</td>
</tr>
<tr>
<td>SA</td>
<td>Fully encapsulated constant gages with solder</td>
<td>±2%</td>
<td>-100° to +400°F</td>
</tr>
<tr>
<td></td>
<td>dots.</td>
<td></td>
<td>(-75° to +205°C)</td>
</tr>
<tr>
<td>SK</td>
<td>Fully encapsulated K-alloy gages with solder</td>
<td>±1.5%</td>
<td>-452° to +550°F</td>
</tr>
<tr>
<td></td>
<td>dots.</td>
<td></td>
<td>(-269° to +230°C)</td>
</tr>
<tr>
<td>SD</td>
<td>Equivalent to WD Series, but with solder dots</td>
<td>±1.5%</td>
<td>-320° to +400°F</td>
</tr>
<tr>
<td></td>
<td>instead of leadwires.</td>
<td></td>
<td>(-195° to +205°C)</td>
</tr>
<tr>
<td>WD</td>
<td>Fully encapsulated isoelastic with high-</td>
<td>±1.5%</td>
<td>-320° to +500°F</td>
</tr>
<tr>
<td></td>
<td>endurance leadwires.</td>
<td></td>
<td>(-195° to +260°C)</td>
</tr>
</tbody>
</table>

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Temperature is increased when Option W, F, SF, LF, or P is specified.

Note 3: Products with designations and options in **bold** are not RoHS compliant.

*Options available but not normally recommended. See Optional Features data sheet for details.
## General Purpose Strain Gages—Linear Pattern

### GAGE PATTERN DATA

![Diagram of gage pattern](image)

**Legend**
- ES = Each Section
- S = Section (S1 = Section 1)
- CP = Complete Pattern
- M = Matrix

<table>
<thead>
<tr>
<th>GAGE DIMENSIONS</th>
<th>ES = Each Section</th>
<th>S = Section</th>
<th>CP = Complete Pattern</th>
<th>M = Matrix</th>
<th>Inch</th>
<th>Millimeter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gage Length</td>
<td>Overall Length</td>
<td>Grid Width</td>
<td>Overall Width</td>
<td>Matrix Length</td>
<td>Matrix Width</td>
<td></td>
</tr>
<tr>
<td>0.062</td>
<td>0.076</td>
<td>0.062</td>
<td>0.190</td>
<td>0.21</td>
<td>0.29</td>
<td></td>
</tr>
<tr>
<td>1.57</td>
<td>1.93</td>
<td>1.57</td>
<td>4.83</td>
<td>5.3</td>
<td>7.4</td>
<td></td>
</tr>
</tbody>
</table>

### DESCRIPTION

General-purpose gage. Similar to 062EN pattern except for grid resistance.

### GAGE SERIES DATA

— See Gage Series datasheet for complete specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Constantan foil in combination with a tough, flexible, polyimide backing.</td>
<td>±3%</td>
<td>−100°F to +350°F (−75°C to +175°C)</td>
</tr>
<tr>
<td>ED</td>
<td>Isoelastic foil in combination with tough, flexible polyimide film.</td>
<td>±2%</td>
<td>−320°F to +400°F (−195°C to +205°C)</td>
</tr>
<tr>
<td>WA</td>
<td>Fully encapsulated constantan gages with high-endurance leadwires.</td>
<td>±2%</td>
<td>−100°F to +400°F (−75°C to +205°C)</td>
</tr>
<tr>
<td>WK</td>
<td>Fully encapsulated K-alloy gages with high-endurance leadwires.</td>
<td>±1.5%</td>
<td>−452°F to +550°F (−269°C to +290°C)</td>
</tr>
<tr>
<td>EP</td>
<td>Annealed constantan foil with tough, high-elongation polyimide backing.</td>
<td>±10%</td>
<td>−100°F to +400°F (−75°C to +205°C)</td>
</tr>
<tr>
<td>SA</td>
<td>Fully encapsulated constantan gages with solder dots.</td>
<td>±2%</td>
<td>−100°F to +400°F (−75°C to +205°C)</td>
</tr>
<tr>
<td>SK</td>
<td>Fully encapsulated K-alloy gages with solder dots.</td>
<td>±1.5%</td>
<td>−452°F to +550°F (−269°C to +230°C)</td>
</tr>
<tr>
<td>SD</td>
<td>Equivalent to WD Series, but with solder dots instead of leadwires.</td>
<td>±1.5%</td>
<td>−320°F to +400°F (−195°C to +205°C)</td>
</tr>
<tr>
<td>WD</td>
<td>Fully encapsulated isoelastic gages with high-endurance leadwires.</td>
<td>±1.5%</td>
<td>−320°F to +500°F (−195°C to +260°C)</td>
</tr>
</tbody>
</table>

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Temperature range is increased when Option W, P, SP, L, F, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.

*Options available but not normally recommended. See Optional Features data sheet for details.
General Purpose Strain Gages—Linear Pattern

GAGE PATTERN DATA

<table>
<thead>
<tr>
<th>GAGE DESIGNATION</th>
<th>RESISTANCE (OHMS)</th>
<th>OPTIONS AVAILABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA-XX-062EN-350</td>
<td>350 ± 0.15%</td>
<td>E, L, LE</td>
</tr>
<tr>
<td>ED-DY-062EN-500</td>
<td>500 ± 0.4%</td>
<td>E, L*, LE*</td>
</tr>
<tr>
<td>WA-XX-062EN-350</td>
<td>350 ± 0.3%</td>
<td></td>
</tr>
<tr>
<td>WK-XX-062EN-500</td>
<td>500 ± 0.3%</td>
<td></td>
</tr>
<tr>
<td>EP-08-062EN-350</td>
<td>350 ± 0.15%</td>
<td></td>
</tr>
<tr>
<td>SA-XX-062EN-350</td>
<td>350 ± 0.3%</td>
<td></td>
</tr>
<tr>
<td>SK-XX-062EN-500</td>
<td>500 ± 0.3%</td>
<td></td>
</tr>
<tr>
<td>SD-DY-062EN-500</td>
<td>500 ± 0.8%</td>
<td></td>
</tr>
<tr>
<td>WD-DY-062EN-500</td>
<td>500 ± 0.8%</td>
<td></td>
</tr>
</tbody>
</table>

DESCRIPTION
Similar to 062ED pattern except for grid resistance.

GAGE DIMENSIONS

<table>
<thead>
<tr>
<th>Gage Length</th>
<th>Overall Length</th>
<th>Grid Width</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.062</td>
<td>0.076</td>
<td>0.062</td>
<td>0.190</td>
<td>0.23</td>
<td>0.31</td>
</tr>
<tr>
<td>1.57</td>
<td>1.93</td>
<td>1.57</td>
<td>4.83</td>
<td>5.8</td>
<td>7.9</td>
</tr>
</tbody>
</table>

GAGE SERIES DATA — See Gage Series datasheet for complete specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Constantan foil in combination with a tough, flexible, polyimide backing.</td>
<td>±3%</td>
<td>−100°F to +350°F (−75°C to +175°C)</td>
</tr>
<tr>
<td>ED</td>
<td>Isoelastic foil in combination with tough, flexible polyimide film.</td>
<td>±2%</td>
<td>−320°F to +400°F (−195°C to +205°C)</td>
</tr>
<tr>
<td>WA</td>
<td>Fully encapsulated constantan gages with high-endurance leadwires.</td>
<td>±2%</td>
<td>−100°F to +400°F (−75°C to +205°C)</td>
</tr>
<tr>
<td>WK</td>
<td>Fully encapsulated K-alloy gages with high-endurance leadwires.</td>
<td>±1.5%</td>
<td>−452°F to +550°F (−269°C to +290°C)</td>
</tr>
<tr>
<td>EP</td>
<td>Annealed constantan foil with tough, high-elongation polyimide backing.</td>
<td>±10%</td>
<td>−100°F to +400°F (−75°C to +205°C)</td>
</tr>
<tr>
<td>SA</td>
<td>Fully encapsulated constantan gages with solder dots.</td>
<td>±2%</td>
<td>−100°F to +400°F (−75°C to +205°C)</td>
</tr>
<tr>
<td>SK</td>
<td>Fully encapsulated K-alloy gages with solder dots.</td>
<td>±1.5%</td>
<td>−452°F to +550°F (−269°C to +230°C)</td>
</tr>
<tr>
<td>SD</td>
<td>Equivalent to WD Series, but with solder dots instead of leadwires.</td>
<td>±1.5%</td>
<td>−320°F to +400°F (−195°C to +205°C)</td>
</tr>
<tr>
<td>WD</td>
<td>Fully encapsulated isoelastic gages with high-endurance leadwires.</td>
<td>±1.5%</td>
<td>−320°F to +500°F (−195°C to +260°C)</td>
</tr>
</tbody>
</table>

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Temperature is increased when Option W, E, SE, LP, or P is specified.

Note 3: Products with designations and options shown in bold are not RoHS compliant.

*Options available but not normally recommended. See Optional Features datasheet for details.
General Purpose Strain Gages—Linear Pattern

GAGE DIMENSIONS

<table>
<thead>
<tr>
<th>Gage Length</th>
<th>Overall Length</th>
<th>Grid Width</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.062</td>
<td>0.175</td>
<td>0.050</td>
<td>0.085</td>
<td>0.252</td>
<td>0.170</td>
</tr>
<tr>
<td>1.52</td>
<td>4.45</td>
<td>1.27</td>
<td>2.03</td>
<td>6.40</td>
<td>4.32</td>
</tr>
</tbody>
</table>

Legend

ES = Each Section
S = Section (S1 = Section 1)
M = Matrix
CP = Complete Pattern

GAGE SERIES DATA — See Gage Series datasheet for complete specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>L2A</td>
<td>Encapsulated constantan gages with preattached ribbon leads.</td>
<td>±3%</td>
<td>-100°C to +250°F (-75°C to +120°C)</td>
</tr>
<tr>
<td>C2A</td>
<td>Encapsulated constantan gages with preattached ready-to-use cables.</td>
<td>±3%</td>
<td>-60°C to +180°F (-50°C to +80°C)</td>
</tr>
</tbody>
</table>

Note 1: Insert desired S-T-C number in spaces marked XX.
# General Purpose Strain Gages—Linear Pattern

## GAGE PATTERN DATA

![Image of strain gage pattern](image)

### GAGE DIMENSIONS

<table>
<thead>
<tr>
<th>Gage Length</th>
<th>Overall Length</th>
<th>Grid Width</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.062</td>
<td>0.220</td>
<td>0.120</td>
<td>0.120</td>
<td>0.31</td>
<td>0.19</td>
</tr>
<tr>
<td>1.57</td>
<td>5.59</td>
<td>3.05</td>
<td>3.05</td>
<td>7.9</td>
<td>4.8</td>
</tr>
</tbody>
</table>

### LEGEND

- **ES = Each Section**
- **S = Section (S1 = Section 1)**
- **CP = Complete Pattern**
- **M = Matrix**

### DESCRIPTION

General-purpose gage. Exposed solder tab area is 0.07 x 0.04 in [1.8 x 1.0 mm].

## GAGE SERIES DATA

See Gage Series datasheet for complete specifications.

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEA</td>
<td>Universal general-purpose strain gages.</td>
<td>±3%</td>
<td>-100° to +350°F (−75° to +175°C)</td>
</tr>
</tbody>
</table>

### Note 1

Insert desired S-T-C number in spaces marked XX.

### Note 2

Products with designations and options shown in **bold** are not RoHS compliant.
**General Purpose Strain Gages—Linear Pattern**

### GAGE PATTERN DATA

![Diagram of gage pattern](image)

**Legend**
- **ES** = Each Section
- **S** = Section (S1 = Section 1)
- **CP** = Complete Pattern
- **M** = Matrix

<table>
<thead>
<tr>
<th>GAGE DIMENSIONS</th>
<th>ES = Each Section</th>
<th>S = Section (S1 = Section 1)</th>
<th>CP = Complete Pattern</th>
<th>M = Matrix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gage Length</td>
<td>Overall Length</td>
<td>Grid Width</td>
<td>Overall Width</td>
<td>Matrix Length</td>
</tr>
<tr>
<td>0.125</td>
<td>0.250</td>
<td>0.125</td>
<td>0.125</td>
<td>0.40</td>
</tr>
<tr>
<td>3.18</td>
<td>6.35</td>
<td>3.18</td>
<td>3.18</td>
<td>10.2</td>
</tr>
</tbody>
</table>

### GAGE SERIES DATA — See Gage Series datasheet for complete specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Constant foil in combination with a tough, flexible, polyimide backing.</td>
<td>±5%</td>
<td>-100°F to +350°F (~75°C to +175°C)</td>
</tr>
<tr>
<td>ED</td>
<td>Isoelastic foil in combination with tough, flexible polyimide film.</td>
<td>±2%</td>
<td>-320°F to +400°F (~195°C to +205°C)</td>
</tr>
<tr>
<td>EK</td>
<td>K-alloy foil in combination with a tough, flexible polyimide backing.</td>
<td>±1.5%</td>
<td>-320°F to +350°F (~195°C to +175°C)</td>
</tr>
<tr>
<td>S2K</td>
<td>K-alloy foil with laminated thick, high-performance polyimide backing.</td>
<td>±1.5%</td>
<td>-100°F to +250°F (~75°C to +120°C)</td>
</tr>
<tr>
<td>WA</td>
<td>Fully encapsulated constant gages with high-endurance leadwires.</td>
<td>±2%</td>
<td>-100°F to +400°F (~75°C to +205°C)</td>
</tr>
<tr>
<td>WK</td>
<td>Fully encapsulated K-alloy gages with high-endurance leadwires.</td>
<td>±1.5%</td>
<td>-452°F to +550°F (~269°C to +290°C)</td>
</tr>
<tr>
<td>EP</td>
<td>Annealed constant foil with tough, high-elongation polyimide backing.</td>
<td>±20%</td>
<td>-100°F to +400°F (~75°C to +205°C)</td>
</tr>
<tr>
<td>SA</td>
<td>Fully encapsulated constant gages with solder dots.</td>
<td>±2%</td>
<td>-100°F to +400°F (~75°C to +205°C)</td>
</tr>
<tr>
<td>SK</td>
<td>Fully encapsulated K-alloy gages with solder dots.</td>
<td>±1.5%</td>
<td>-452°F to +450°F (~269°C to +230°C)</td>
</tr>
<tr>
<td>SD</td>
<td>Equivalent to WD Series, but with solder dots instead of leadwires.</td>
<td>±1.5%</td>
<td>-320°F to +400°F (~195°C to +205°C)</td>
</tr>
<tr>
<td>WD</td>
<td>Fully encapsulated isoelectric gages with high-endurance leadwires.</td>
<td>±1.5%</td>
<td>-320°F to +500°F (~195°C to +260°C)</td>
</tr>
</tbody>
</table>

**Note 1:** Insert desired S-T-C number in spaces marked XX.

**Note 2:** Tolerance is increased when Option E, F, P, W, or P is specified.

**Note 3:** Products with designations and options shown in **bold** are not RoHS compliant.

*Options available but not normally recommended. See Optional Features data sheet for details.*
General Purpose Strain Gages—Linear Pattern

**GAGE PATTERN DATA**

![Actual Size](image)

**GAGE DIMENSIONS**

<table>
<thead>
<tr>
<th>Gage Length</th>
<th>Overall Length</th>
<th>Grid Width</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.125</td>
<td>0.250</td>
<td>0.125</td>
<td>0.125</td>
<td>0.40</td>
<td>0.22</td>
</tr>
<tr>
<td>3.18</td>
<td>6.35</td>
<td>3.18</td>
<td>3.18</td>
<td>10.2</td>
<td>5.6</td>
</tr>
</tbody>
</table>

**GAGE SERIES DATA** — See Gage Series datasheet for complete specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
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<td>±5%</td>
<td>−100°F to +350°F (−75°C to +175°C)</td>
</tr>
<tr>
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<td>EK</td>
<td>K-alloy foil in combination with a tough, flexible polyimide backing.</td>
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<td>−320°F to +350°F (−195°C to +175°C)</td>
</tr>
<tr>
<td>WA</td>
<td>Fully encapsulated constantan gages with high-endurance leadwires.</td>
<td>±2%</td>
<td>−100°F to +400°F (−75°C to +205°C)</td>
</tr>
<tr>
<td>WK</td>
<td>Fully encapsulated K-alloy gages with high-endurance leadwires.</td>
<td>±0.5%</td>
<td>−452°F to +550°F (−269°C to +290°C)</td>
</tr>
<tr>
<td>EP</td>
<td>Annealed constantan foil with tough, high-elongation polyimide backing.</td>
<td>±20%</td>
<td>−100°F to +400°F (−75°C to +205°C)</td>
</tr>
<tr>
<td>SA</td>
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</tbody>
</table>

**DESCRIPTION**

Widely used general-purpose gage. EK-Series gages are supplied with duplex copper pads (DP) when optional feature W or SE is not specified.

**OPTIONS AVAILABLE**

See Note 3.

W, E, L, LE, P
E, L*, LE*
W, SE
W*
W**

**RESISTANCE (OHMS)**

See Note 2.

EA-XX-125AD-120 120 ± 0.15%
ED-YY-125AD-350 350 ± 0.3%
EK-XX-125AD-350 350 ± 0.15%
WA-XX-125AD-120 120 ± 0.3%
WK-XX-125AD-350 350 ± 0.3%
EP-YY-125AD-120 120 ± 0.15%
SA-XX-125AD-120 120 ± 0.3%
SK-XX-125AD-350 350 ± 0.3%
SD-YY-125AD-350 350 ± 0.6%
WD-YY-125AD-350 350 ± 0.6%

**GAGE DESIGNATION**

See Note 1, 3

**LEGEND**

ES = Each Section
S = Section (S1 = Section 1)
CP = Complete Pattern
M = Matrix

**Notes**

1. Insert desired S-T-C number in spaces marked XX.
2. Tolerance is increased when Option W, E, LE, or P is specified.
3. Products with designations and options shown in bold are not RoHS compliant.

*Options available but not normally recommended. See Optional Features data sheet for details.
General Purpose Strain Gages—Linear Pattern

GAGE PATTERN DATA

<table>
<thead>
<tr>
<th>RESISTANCE (OHMS)</th>
<th>OPTIONS AVAILABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>E, P</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GAGE DESIGNATION</th>
<th>120 ± 0.15%</th>
<th>350 ± 0.3%</th>
<th>120 ± 0.3%</th>
<th>350 ± 0.3%</th>
<th>120 ± 0.15%</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA-XX-125BB-120</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ED-DY-125BB-350</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WA-XX-125BB-120</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WK-XX-125BB-350</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EP-08-125BB-120</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SA-XX-125BB-120</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SK-XX-125BB-350</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SD-DY-125BB-350</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WD-DY-125BB-350</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

DESCRIPTION
Narrow general-purpose gage with extended tabs.

GAGE DIMENSIONS

<table>
<thead>
<tr>
<th>Legend</th>
<th>inch</th>
<th>millimeter</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES = Each Section</td>
<td>0.088</td>
<td>2.24</td>
</tr>
<tr>
<td>S = Section (S1 = Section 1)</td>
<td>0.088</td>
<td>2.24</td>
</tr>
<tr>
<td>CP = Complete Pattern</td>
<td>0.43</td>
<td>10.9</td>
</tr>
<tr>
<td>M = Matrix</td>
<td>0.22</td>
<td>5.6</td>
</tr>
</tbody>
</table>

GAGE SERIES DATA — See Gage Series datasheet for complete specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Constant foil in combination with a tough, flexible, polyimide backing.</td>
<td>±5%</td>
<td>−100° to +350°F (−75° to +175°C)</td>
</tr>
<tr>
<td>ED</td>
<td>Isoelastic foil in combination with tough, flexible polyimide film.</td>
<td>±2%</td>
<td>−320° to +400°F (−195° to +205°C)</td>
</tr>
<tr>
<td>WA</td>
<td>Fully encapsulated constantan gages with high-endurance leadwires.</td>
<td>±2%</td>
<td>−100° to +400°F (−75° to +205°C)</td>
</tr>
<tr>
<td>WK</td>
<td>Fully encapsulated K-alloy gages with high-endurance leadwires.</td>
<td>±1.5%</td>
<td>−452° to +550°F (−269° to +290°C)</td>
</tr>
<tr>
<td>EP</td>
<td>Annealed constantan foil with tough, high-elongation polyimide backing.</td>
<td>±20%</td>
<td>−100° to +400°F (−75° to +205°C)</td>
</tr>
<tr>
<td>SA</td>
<td>Fully encapsulated constantan gages with solder dots.</td>
<td>±2%</td>
<td>−100° to +400°F (−75° to +205°C)</td>
</tr>
<tr>
<td>SK</td>
<td>Fully encapsulated K-alloy gages with solder dots.</td>
<td>±1.5%</td>
<td>−452° to +550°F (−269° to +290°C)</td>
</tr>
<tr>
<td>SD</td>
<td>Equivalent to WD Series, but with solder dots instead of leadwires.</td>
<td>±1.5%</td>
<td>−320° to +400°F (−195° to +205°C)</td>
</tr>
<tr>
<td>WD</td>
<td>Fully encapsulated isoelastic gages with high-endurance leadwires.</td>
<td>±1.5%</td>
<td>−320° to +500°F (−195° to +260°C)</td>
</tr>
</tbody>
</table>

Note 1: Insert desired S-T-C number in spaces marked XX.
Note 2: Temperature is increased when Option W, P, SF, 1P, or P is specified.
Note 3: Products with designations and options shown in bold are not RoHS compliant.
125BT

General Purpose Strain Gages—Linear Pattern

<table>
<thead>
<tr>
<th>GAGE DIMENSIONS</th>
<th>Legend</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES = Each Section</td>
<td>S = Section (SI = Section 1)</td>
</tr>
<tr>
<td>Gage Length</td>
<td>Overall Length</td>
</tr>
<tr>
<td>0.125</td>
<td>0.215</td>
</tr>
<tr>
<td>3.18</td>
<td>5.46</td>
</tr>
</tbody>
</table>

GAGE SERIES DATA — See Gage Series datasheet for complete specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Constantan foil in combination with a tough, flexible, polyimide backing.</td>
<td>±5%</td>
<td>-100° to +350°F (-75° to +175°C)</td>
</tr>
<tr>
<td>ED</td>
<td>Isoelastic foil in combination with tough, flexible polyimide film.</td>
<td>±2%</td>
<td>-320° to +400°F (-195° to +205°C)</td>
</tr>
<tr>
<td>WA</td>
<td>Fully encapsulated constantan gages with high-endurance leadwires.</td>
<td>±2%</td>
<td>-100° to +400°F (-75° to +205°C)</td>
</tr>
<tr>
<td>WK</td>
<td>Fully encapsulated K-alloy gages with high-endurance leadwires.</td>
<td>±1.5%</td>
<td>-452° to +550°F (-269° to +290°C)</td>
</tr>
<tr>
<td>EP</td>
<td>Annealed constantan foil with tough, high-elongation polyimide backing.</td>
<td>±20%</td>
<td>-100° to +400°F (-75° to +205°C)</td>
</tr>
<tr>
<td>SA</td>
<td>Fully encapsulated constantan gages with solder dots.</td>
<td>±2%</td>
<td>-100° to +400°F (-75° to +205°C)</td>
</tr>
<tr>
<td>SK</td>
<td>Fully encapsulated K-alloy gages with solder dots.</td>
<td>±1.5%</td>
<td>-452° to +50°F (-269° to +230°C)</td>
</tr>
<tr>
<td>SD</td>
<td>Equivalent to WD Series, but with solder dots instead of leadwires.</td>
<td>±1.5%</td>
<td>-320° to +400°F (-195° to +205°C)</td>
</tr>
<tr>
<td>WD</td>
<td>Fully encapsulated isostatic gages with high-endurance leadwires.</td>
<td>±1.5%</td>
<td>-320° to +50°F (-195° to +260°C)</td>
</tr>
</tbody>
</table>

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Temperature is increased when Option W, S, L, F, or P is specified.

Note 3: Products with designations and options shown in bold are not RoHS compliant.

*Options available but not normally recommended. See Optional Features data sheet for details.
## General Purpose Strain Gages—Linear Pattern

### GAGE PATTERN DATA

<table>
<thead>
<tr>
<th>GAGE DESIGNATION</th>
<th>RESISTANCE (OHMS)</th>
<th>OPTIONS AVAILABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA-XX-125BZ-350</td>
<td>350 ± 0.15%</td>
<td>W, E, L, LE, P</td>
</tr>
<tr>
<td>ED-DY-125BZ-10C</td>
<td>1000 ± 0.4%</td>
<td>E, L*, LE*</td>
</tr>
<tr>
<td>EK-XX-125BZ-10C</td>
<td>1000 ± 0.15%</td>
<td>W*</td>
</tr>
<tr>
<td>WA-XX-125BZ-350</td>
<td>350 ± 0.15%</td>
<td></td>
</tr>
<tr>
<td>WK-XX-125BZ-10C</td>
<td>1000 ± 0.3%</td>
<td></td>
</tr>
<tr>
<td>SA-XX-125BZ-350</td>
<td>350 ± 0.3%</td>
<td></td>
</tr>
<tr>
<td>SK-XX-125BZ-10C</td>
<td>1000 ± 0.3%</td>
<td></td>
</tr>
<tr>
<td>SD-DY-125BZ-10C</td>
<td>1000 ± 0.8%</td>
<td></td>
</tr>
<tr>
<td>WD-DY-125BZ-10C</td>
<td>1000 ± 0.8%</td>
<td></td>
</tr>
</tbody>
</table>

### DESCRIPTION
Narrow high-resistance gage with compact geometry. Similar to 125BT pattern except for grid resistance. EK-Series gages are supplied with duplex copper dots (DD) when optional feature W is not specified.

### GAGE DIMENSIONS

<table>
<thead>
<tr>
<th>GAGE SERIES DATA</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series</td>
<td>Description</td>
<td>%</td>
</tr>
<tr>
<td>EA</td>
<td>Constantan foil in combination with a tough, flexible, polyimide backing.</td>
<td>±5%</td>
</tr>
<tr>
<td>ED</td>
<td>Isoelastic foil in combination with tough, flexible polyimide film.</td>
<td>±2%</td>
</tr>
<tr>
<td>EK</td>
<td>K-alloy foil in combination with a tough, flexible polyimide backing.</td>
<td>±1.5%</td>
</tr>
<tr>
<td>WA</td>
<td>Fully encapsulated constantan gages with high-endurance leadwires.</td>
<td>±2%</td>
</tr>
<tr>
<td>WK</td>
<td>Fully encapsulated K-alloy gages with high-endurance leadwires.</td>
<td>±1.5%</td>
</tr>
<tr>
<td>SA</td>
<td>Fully encapsulated constantan gages with solder dots.</td>
<td>±2%</td>
</tr>
<tr>
<td>SK</td>
<td>Fully encapsulated K-alloy gages with solder dots.</td>
<td>±1.5%</td>
</tr>
<tr>
<td>SD</td>
<td>Equivalent to WD Series, but with solder dots instead of leadwires.</td>
<td>±1.5%</td>
</tr>
<tr>
<td>WD</td>
<td>Fully encapsulated isoelastic gages with high-endurance leadwires.</td>
<td>±1.5%</td>
</tr>
</tbody>
</table>

**Note 1:** Insert desired S-T-C number in spaces marked XX.

**Note 2:** Torsion is increased when Option W, E, SE, LE, or P is specified.

**Note 3:** Products with designations and options shown in **bold** are not RoHS compliant.

*Options available but not normally recommended. See Optional Features data sheet for details.
General Purpose Strain Gages—Linear Pattern

GAGE PATTERN DATA

<table>
<thead>
<tr>
<th>GAGE DESIGNATION</th>
<th>RESISTANCE (OHMS)</th>
<th>OPTIONS AVAILABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>L2A-XX-125LW-120</td>
<td>120 ± 0.6%</td>
<td></td>
</tr>
<tr>
<td>L2A-XX-125LW-350</td>
<td>350 ± 0.6%</td>
<td></td>
</tr>
<tr>
<td>C2A-XX-125LW-120</td>
<td>120 ± 0.6%</td>
<td></td>
</tr>
<tr>
<td>C2A-XX-125LW-350</td>
<td>350 ± 0.6%</td>
<td></td>
</tr>
</tbody>
</table>

DESCRIPTION

Widely used general-purpose gage.

RoHS COMPATIBLE

GAGE DIMENSIONS

<table>
<thead>
<tr>
<th>Gage Length</th>
<th>Overall Length</th>
<th>Grid Width</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.125</td>
<td>0.238</td>
<td>0.070</td>
<td>0.080</td>
<td>0.315</td>
<td>0.170</td>
</tr>
<tr>
<td>3.18</td>
<td>6.05</td>
<td>1.78</td>
<td>2.03</td>
<td>8.00</td>
<td>4.32</td>
</tr>
</tbody>
</table>

Legend

S = Section
M = Matrix
ES = Each Section
CP = Complete Pattern

GAGE SERIES DATA — See Gage Series datasheet for complete specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>L2A</td>
<td>Encapsulated constantan gages with preattached ribbon leads.</td>
<td>±3%</td>
<td>−100° to +250°F (~−75° to +120°C)</td>
</tr>
<tr>
<td>C2A</td>
<td>Encapsulated constantan gages with preattached ready-to-use cables.</td>
<td>±3%</td>
<td>−60° to +180°F (~−50° to +80°C)</td>
</tr>
</tbody>
</table>

Example of an L2A Construction

Example of an C2A Construction

Note 1: Insert desired S-T-C number in spaces marked XX.
**General Purpose Strain Gages—Linear Pattern**

### GAGE PATTERN DATA

<table>
<thead>
<tr>
<th>GAGE DESIGNATION</th>
<th>RESISTANCE (OHMS)</th>
<th>OPTIONS AVAILABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA-XX-125PC-120</td>
<td>120 ± 0.2%</td>
<td>W, E, L, LE</td>
</tr>
<tr>
<td>EA-XX-125PC-350</td>
<td>350 ± 0.2%</td>
<td>W, E, L, LE</td>
</tr>
<tr>
<td>ED-DY-125PC-350</td>
<td>350 ± 0.4%</td>
<td>E</td>
</tr>
<tr>
<td>ED-DY-125PC-10C</td>
<td>1000 ± 0.4%</td>
<td>W, SE</td>
</tr>
<tr>
<td>EK-XX-125PC-10C</td>
<td>1000 ± 0.2%</td>
<td>W*</td>
</tr>
<tr>
<td>WA-XX-125PC-120</td>
<td>120 ± 0.4%</td>
<td>W*</td>
</tr>
<tr>
<td>WA-XX-125PC-350</td>
<td>350 ± 0.4%</td>
<td>W</td>
</tr>
<tr>
<td>WK-XX-125PC-10C</td>
<td>1000 ± 0.4%</td>
<td>W*</td>
</tr>
<tr>
<td>SA-XX-125PC-120</td>
<td>120 ± 0.4%</td>
<td>W*</td>
</tr>
<tr>
<td>SA-XX-125PC-350</td>
<td>350 ± 0.4%</td>
<td>W*</td>
</tr>
<tr>
<td>SK-XX-125PC-10C</td>
<td>1000 ± 0.4%</td>
<td>W*</td>
</tr>
</tbody>
</table>

**DESCRIPTION**

Dual-pattern gage for use in back-to-back bending applications. Longitudinal grid centerlines spaced 0.085 in [2.16 mm] apart. See also 125MG pattern. EK-Series gages are supplied with duplex copper pads (DP) when optional W or SE is not specified.

### GAGE DIMENSIONS

<table>
<thead>
<tr>
<th>Gage Length</th>
<th>Overall Length</th>
<th>Grid Width</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.125 ES</td>
<td>0.205 CP</td>
<td>0.065 ES</td>
<td>0.150 CP</td>
<td>0.29</td>
<td>0.23</td>
</tr>
<tr>
<td>3.18 ES</td>
<td>5.21 CP</td>
<td>1.65 ES</td>
<td>3.81 CP</td>
<td>7.4</td>
<td>5.8</td>
</tr>
</tbody>
</table>

**GAGE SERIES DATA** — See Gage Series datasheet for complete specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Constantan foil in combination with a tough, flexible, polyimide backing.</td>
<td>±5%</td>
<td>-100°F to +350°F (-127°C to +177°C)</td>
</tr>
<tr>
<td>ED</td>
<td>Isoelastic foil in combination with tough, flexible polyimide film.</td>
<td>±2%</td>
<td>-320°F to +400°F (-195°C to +205°C)</td>
</tr>
<tr>
<td>EK</td>
<td>K-alloy foil in combination with a tough, flexible polyimide backing.</td>
<td>±1.5%</td>
<td>-320°F to +350°F (-195°C to +177°C)</td>
</tr>
<tr>
<td>WA</td>
<td>Fully encapsulated constantan gages with high-endurance leadwires.</td>
<td>±2%</td>
<td>-100°F to +400°F (-127°C to +205°C)</td>
</tr>
<tr>
<td>WK</td>
<td>Fully encapsulated K-alloy gages with high-endurance leadwires.</td>
<td>±1.5%</td>
<td>-452°F to +550°F (-269°C to +290°C)</td>
</tr>
<tr>
<td>SA</td>
<td>Fully encapsulated constantan gages with solder dots.</td>
<td>±2%</td>
<td>-100°F to +400°F (-127°C to +205°C)</td>
</tr>
<tr>
<td>SK</td>
<td>Fully encapsulated K-alloy gages with solder dots.</td>
<td>±1.5%</td>
<td>-452°F to +550°F (-269°C to +290°C)</td>
</tr>
</tbody>
</table>

**Note 1:** Insert desired S-T-C number in spaces marked XX.

**Note 2:** Tolerance is increased when Option W, E, SE, LE, or P is specified.

**Note 3:** Products with designations and options shown in **bold** are not RoHS compliant. *Options available but not normally recommended. See Optional Features datasheet for details.*
General Purpose Strain Gages—Linear Pattern

GAGE DIMENSIONS

<table>
<thead>
<tr>
<th>Gage Length</th>
<th>Overall Length</th>
<th>Grid Width</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.125</td>
<td>0.275</td>
<td>0.100</td>
<td>0.120</td>
<td>0.38</td>
<td>0.19</td>
</tr>
<tr>
<td>3.18</td>
<td>6.99</td>
<td>2.54</td>
<td>3.05</td>
<td>9.7</td>
<td>4.8</td>
</tr>
</tbody>
</table>

DESCRIPTION

General-purpose gage with narrow geometry. Exposed solder tab area 0.06 x 0.05 in (1.5 x 1.1 mm). See also 125UW pattern.

GAGE SERIES DATA — See Gage Series datasheet for complete specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEA</td>
<td>Universal general-purpose strain gages.</td>
<td>±5%</td>
<td>−100°F to +350°F (~−75°C to +175°C)</td>
</tr>
</tbody>
</table>

Note 1: Insert desired S-T-C number in spaces marked XX.
Note 2: Products with designations and options shown in bold are not RoHS compliant.
### General Purpose Strain Gages—Linear Pattern

#### GAGE DIMENSIONS

<table>
<thead>
<tr>
<th>Gage Length</th>
<th>Overall Length</th>
<th>Grid Width</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.125</td>
<td>0.325</td>
<td>0.180</td>
<td>0.180</td>
<td>0.42</td>
<td>0.27</td>
</tr>
<tr>
<td>3.18</td>
<td>8.26</td>
<td>4.57</td>
<td>4.57</td>
<td>10.7</td>
<td>6.9</td>
</tr>
</tbody>
</table>

#### GAGE SERIES DATA

See Gage Series datasheet for complete specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEA</td>
<td>Universal general-purpose strain gages.</td>
<td>±5%</td>
<td>−100° to +350°F (−75° to +175°C)</td>
</tr>
</tbody>
</table>

#### GAGE PATTERN DATA

- **GAGE DESIGNATION**: See Note 1
- **RESISTANCE (OHMS)**: CEA-XX-125UXW-120 120 ± 0.3%, CEA-XX-125UXW-350 350 ± 0.3%
- **OPTIONS AVAILABLE**: See Note 2
- **DESCRIPTION**: General-purpose gage. Exposed solder tab area 0.10 x 0.07 (2.5 x 1.8 mm). See also 125UN pattern.

#### LEGEND

- **ES** = Each Section
- **S** = Section (S1 = Section 1)
- **CP** = Complete Pattern
- **M** = Matrix

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Products with designations and options shown in bold are not RoHS compliant.
General Purpose Strain Gages—Linear Pattern

**GAGE PATTERN DATA**

- **GAGE DESIGNATION**
  - CEA-XX-187UW-120
  - CEA-XX-187UW-350
- **RESISTANCE (OHMS)**
  - 120 ± 0.3%
  - 350 ± 0.3%
- **OPTIONS AVAILABLE**
  - P2
  - P2

**DESCRIPTION**

General-purpose gage. Exposed solder tab area 0.10 x 0.07 in (2.5 x 1.8 mm).

**GAGE DIMENSIONS**

<table>
<thead>
<tr>
<th>Gage Length</th>
<th>Overall Length</th>
<th>Grid Width</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.167</td>
<td>0.367</td>
<td>0.180</td>
<td>0.180</td>
<td>0.49</td>
<td>0.27</td>
</tr>
<tr>
<td>4.75</td>
<td>9.83</td>
<td>4.57</td>
<td>4.57</td>
<td>12.4</td>
<td>6.9</td>
</tr>
</tbody>
</table>

**GAGE SERIES DATA** — See Gage Series datasheet for complete specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEA</td>
<td>Universal general-purpose strain gages.</td>
<td>±5%</td>
<td>-100°F to +350°F (-75°C to +175°C)</td>
</tr>
</tbody>
</table>

**Legend**

- **ES** = Each Section
- **S** = Section (S1 = Section 1)
- **CP** = Complete Pattern
- **M** = Matrix

**Note 1:** Insert desired S-T-C number in spaces marked XX.

**Note 2:** Products with designations and options shown in **bold** are not RoHS compliant.
# General Purpose Strain Gages—Linear Pattern

## Gage Pattern Data

![Diagram of gage pattern](image)

**Legend**
- **ES**: Each Section
- **S**: Section (S1 = Section 1)
- **CP**: Complete Pattern
- **M**: Matrix
- **in.**: Inch
- **mm**: Millimeter

<table>
<thead>
<tr>
<th>Gage Dimensions</th>
<th>ES = Each Section</th>
<th>S = Section (S1 = Section 1)</th>
<th>CP = Complete Pattern</th>
<th>M = Matrix</th>
<th>Grid Width</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gage Length</td>
<td>Overall Length</td>
<td></td>
<td></td>
<td></td>
<td>0.250</td>
<td>0.415</td>
<td>0.250</td>
<td>0.250</td>
</tr>
<tr>
<td>6.35</td>
<td>10.54</td>
<td></td>
<td></td>
<td></td>
<td>6.35</td>
<td>6.35</td>
<td>14.5</td>
<td>9.1</td>
</tr>
</tbody>
</table>

## Gage Series Data

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Constantan foil in combination with a tough, flexible, polyimide backing.</td>
<td>±5%</td>
<td>-100°F to +350°F (−75°C to +175°C)</td>
</tr>
<tr>
<td>ED</td>
<td>Isoelastic foil in combination with tough, flexible polyimide film.</td>
<td>±2%</td>
<td>-320°F to +400°F (−195°C to +205°C)</td>
</tr>
<tr>
<td>WA</td>
<td>Fully encapsulated constantan gages with high-endurance leadwires.</td>
<td>±2%</td>
<td>-100°F to +400°F (−75°C to +205°C)</td>
</tr>
<tr>
<td>WK</td>
<td>Fully encapsulated K-alloy gages with high-endurance leadwires.</td>
<td>±1.5%</td>
<td>-452°F to +550°F (−269°C to +290°C)</td>
</tr>
<tr>
<td>EP</td>
<td>Annealed constantan foil with tough, high-elongation polyimide backing.</td>
<td>±20%</td>
<td>-100°F to +400°F (−75°C to +205°C)</td>
</tr>
<tr>
<td>SA</td>
<td>Fully encapsulated constantan gages with solder dots.</td>
<td>±2%</td>
<td>-100°F to +400°F (−75°C to +205°C)</td>
</tr>
<tr>
<td>SK</td>
<td>Fully encapsulated K-alloy gages with solder dots.</td>
<td>±1.5%</td>
<td>-452°F to +550°F (−269°C to +230°C)</td>
</tr>
<tr>
<td>SD</td>
<td>Equivalent to WD Series, but with solder dots instead of leadwires.</td>
<td>±1.5%</td>
<td>-320°F to +400°F (−195°C to +205°C)</td>
</tr>
<tr>
<td>WD</td>
<td>Fully encapsulated isoclastic gages with high-endurance leadwires.</td>
<td>±1.5%</td>
<td>-320°F to +500°F (−195°C to +260°C)</td>
</tr>
</tbody>
</table>

**Note 1:** Insert desired S-T-C number in spaces marked XX.

**Note 2:** To ensure accuracy, substitute ‘P’ when option ‘K’, ‘SP’, ‘FP’, or ‘P’ is specified.

**Note 3:** Products with designations and options shown in **bold** are not RoHS compliant.

*Options available but not normally recommended. See Optional Features datasheet for details.*
General Purpose Strain Gages—Linear Pattern

GAGE PATTERN DATA

![Gage Pattern Diagram]

GAGE DIMENSIONS

<table>
<thead>
<tr>
<th>Gage Length</th>
<th>Overall Length</th>
<th>Grid Width</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.250</td>
<td>0.375</td>
<td>0.125</td>
<td>0.125</td>
<td>0.52</td>
<td>0.22</td>
</tr>
<tr>
<td>6.35</td>
<td>9.53</td>
<td>3.18</td>
<td>3.18</td>
<td>13.2</td>
<td>5.6</td>
</tr>
</tbody>
</table>

Legend

- ES = Each Section
- S = Section (S1 = Section 1)
- CP = Complete Pattern
- M = Matrix

DESCRIPTION

General-purpose gage with high-resistance grid. Compact geometry. Similar to 250BG pattern except for resistance. See also 250BM and 250UW patterns. EK-Series gages are supplied with duplex copper pads (DP) when optional feature W or SE is not specified.

GAGE SERIES DATA — See Gage Series datasheet for complete specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Constantan foil in combination with a tough, flexible, polyimide backing.</td>
<td>±5%</td>
<td>-100°F to +350°F (-75°C to +175°C)</td>
</tr>
<tr>
<td>ED</td>
<td>Isoelastic foil in combination with tough, flexible polyimide film.</td>
<td>±2%</td>
<td>-320°F to +400°F (-195°C to +205°C)</td>
</tr>
<tr>
<td>EK</td>
<td>K-alloy foil in combination with a tough, flexible polyimide backing.</td>
<td>±1.5%</td>
<td>-320°F to +350°F (-195°C to +175°C)</td>
</tr>
<tr>
<td>S2K</td>
<td>K-alloy foil with laminated thick, high-performance polyimide backing.</td>
<td>±1.5%</td>
<td>-100°F to +250°F (-75°C to +120°C)</td>
</tr>
<tr>
<td>WA</td>
<td>Fully encapsulated constantan gages with high-endurance leadwires.</td>
<td>±2%</td>
<td>-100°F to +400°F (-75°C to +205°C)</td>
</tr>
<tr>
<td>WK</td>
<td>Fully encapsulated K-alloy gages with high-endurance leadwires.</td>
<td>±1.5%</td>
<td>-452°F to +550°F (-269°C to +290°C)</td>
</tr>
<tr>
<td>EP</td>
<td>Annealed constantan foil with tough, high-elongation polyimide backing.</td>
<td>±20%</td>
<td>-100°F to +400°F (-75°C to +205°C)</td>
</tr>
<tr>
<td>SA</td>
<td>Fully encapsulated constantan gages with solder dots.</td>
<td>±2%</td>
<td>-100°F to +400°F (-75°C to +205°C)</td>
</tr>
<tr>
<td>SK</td>
<td>Fully encapsulated K-alloy gages with solder dots.</td>
<td>±1.5%</td>
<td>-452°F to +450°F (-269°C to +230°C)</td>
</tr>
<tr>
<td>SD</td>
<td>Equivalent to WD Series, but with solder dots instead of leadwires.</td>
<td>±1.5%</td>
<td>-320°F to +400°F (-195°C to +205°C)</td>
</tr>
<tr>
<td>WD</td>
<td>Fully encapsulated isoelastic gages with high-endurance leadwires.</td>
<td>±1.5%</td>
<td>-320°F to +500°F (-195°C to +260°C)</td>
</tr>
</tbody>
</table>

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, L, or P is specified.

Note 3: Products with designations and options shown in bold are not RoHS compliant.

*Options available but not normally recommended. See Optional Features datasheet for details.
General Purpose Strain Gages—Linear Pattern

GAGE PATTERN DATA

<table>
<thead>
<tr>
<th>GAGE DESIGNATION</th>
<th>RESISTANCE (OHMS)</th>
<th>OPTIONS AVAILABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA-XX-250BG-120</td>
<td>120 ± 0.15%</td>
<td>W, E, L, LE, P</td>
</tr>
<tr>
<td>ED-DY-250BG-350</td>
<td>350 ± 0.3%</td>
<td>E, L*, LE*</td>
</tr>
<tr>
<td>WA-XX-250BG-120</td>
<td>120 ± 0.3%</td>
<td>W*</td>
</tr>
<tr>
<td>WK-XX-250BG-350</td>
<td>350 ± 0.3%</td>
<td></td>
</tr>
<tr>
<td>EP-XX-250BG-120</td>
<td>120 ± 0.15%</td>
<td></td>
</tr>
<tr>
<td>SA-XX-250BG-120</td>
<td>120 ± 0.3%</td>
<td></td>
</tr>
<tr>
<td>SK-XX-250BG-350</td>
<td>350 ± 0.3%</td>
<td></td>
</tr>
<tr>
<td>SD-DY-250BG-350</td>
<td>350 ± 0.6%</td>
<td></td>
</tr>
<tr>
<td>WD-DY-250BG-350</td>
<td>350 ± 0.6%</td>
<td></td>
</tr>
</tbody>
</table>

DESCRIPTION

Wide used general-purpose gage. Compact geometry. See also 250UN pattern.

GAGE DIMENSIONS

<table>
<thead>
<tr>
<th>Gage Length</th>
<th>Overall Length</th>
<th>Grid Width</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.250</td>
<td>0.375</td>
<td>0.125</td>
<td>0.125</td>
<td>0.52</td>
<td>0.22</td>
</tr>
<tr>
<td>6.35</td>
<td>9.53</td>
<td>3.18</td>
<td>3.18</td>
<td>13.2</td>
<td>5.6</td>
</tr>
</tbody>
</table>

Legend

ES = Each Section
S = Section (S1 = Section 1)
CP = Complete Pattern
M = Matrix

GAGE SERIES DATA — See Gage Series datasheet for complete specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Constantan foil in combination with a tough, flexible, polyimide backing.</td>
<td>±5%</td>
<td>−100° to +350°F (−75° to +175°C)</td>
</tr>
<tr>
<td>ED</td>
<td>Isoelastic foil in combination with tough, flexible polyimide film.</td>
<td>±2%</td>
<td>−320° to +400°F (−195° to +205°C)</td>
</tr>
<tr>
<td>WA</td>
<td>Fully encapsulated constantan gages with high-endurance leadwires.</td>
<td>±2%</td>
<td>−100° to +400°F (−75° to +205°C)</td>
</tr>
<tr>
<td>WK</td>
<td>Fully encapsulated K-alloy gages with high-endurance leadwires.</td>
<td>±1.5%</td>
<td>−452° to +550°F (−269° to +290°C)</td>
</tr>
<tr>
<td>EP</td>
<td>Annealed constantan foil with tough, high-elongation polyimide backing.</td>
<td>±20%</td>
<td>−100° to +400°F (−75° to +205°C)</td>
</tr>
<tr>
<td>SA</td>
<td>Fully encapsulated constantan gages with solder dots.</td>
<td>±2%</td>
<td>−100° to +400°F (−75° to +205°C)</td>
</tr>
<tr>
<td>SK</td>
<td>Fully encapsulated K-alloy gages with solder dots.</td>
<td>±1.5%</td>
<td>−452° to +450°F (−269° to +230°C)</td>
</tr>
<tr>
<td>SD</td>
<td>Equivalent to WD Series, but with solder dots instead of leadwires.</td>
<td>±1.5%</td>
<td>−320° to +400°F (−195° to +205°C)</td>
</tr>
<tr>
<td>WD</td>
<td>Fully encapsulated isostatic gages with high-endurance leadwires.</td>
<td>±1.5%</td>
<td>−320° to +500°F (−195° to +260°C)</td>
</tr>
</tbody>
</table>

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tensile is increased when Option W, S, SE, L, or P is specified.

Note 3: Products with designations and options shown in bold are not RoHS compliant.

*Options available but not normally recommended. See Optional Features datasheet for details.
## General Purpose Strain Gages—Linear Pattern

### GAGE PATTERN DATA

[Image of gage pattern]

**Legend**
- **ES**: Each Section
- **S**: Section (S1 = Section 1)
- **CP**: Complete Pattern
- **M**: Matrix

<table>
<thead>
<tr>
<th>Gage Dimensions</th>
<th>ES = Each Section</th>
<th>S = Section (S1 = Section 1)</th>
<th>CP = Complete Pattern</th>
<th>M = Matrix</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Grid Width</strong></td>
<td><strong>Overall Width</strong></td>
<td><strong>Matrix Length</strong></td>
<td><strong>Matrix Width</strong></td>
<td></td>
</tr>
<tr>
<td>0.175</td>
<td>0.175</td>
<td>0.58</td>
<td>0.27</td>
<td></td>
</tr>
<tr>
<td>10.92</td>
<td>4.45</td>
<td>14.7</td>
<td>6.9</td>
<td></td>
</tr>
</tbody>
</table>

### GAGE SERIES DATA

*See Gage Series datasheet for complete specifications*

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Constantan foil in combination with a tough, flexible, polymide backing.</td>
<td>±5%</td>
<td>–100°C to +350°F (–175°C to +175°C)</td>
</tr>
<tr>
<td>WA</td>
<td>Fully encapsulated constantan gages with high-endurance leadwires.</td>
<td>±2%</td>
<td>–100°C to +400°F (–175°C to +205°C)</td>
</tr>
<tr>
<td>WK</td>
<td>Fully encapsulated K-alloy gages with high-endurance leadwires.</td>
<td>±1.5%</td>
<td>–452°F to +550°F (–269°C to +290°C)</td>
</tr>
<tr>
<td>SA</td>
<td>Fully encapsulated constantan gages with solder dots.</td>
<td>±2%</td>
<td>–100°C to +400°F (–175°C to +205°C)</td>
</tr>
<tr>
<td>SK</td>
<td>Fully encapsulated K-alloy gages with solder dots.</td>
<td>±1.5%</td>
<td>–452°F to +450°F (–269°C to +230°C)</td>
</tr>
</tbody>
</table>

**Note 1:** Insert desired S-T-C number in spaces marked XX.

**Note 2:** Tolerance is increased when Option W, E, S, F, I F, or P is specified.

**Note 3:** Products with designations and options shown in **bold** are not RoHS compliant.

*Options available but not normally recommended. See Optional Features datasheet for details.*

---

www.micro-measurements.com  For technical questions, contact mm@vpgsensors.com  Document No.: 11295  Revision: 22-Sep-2015
General Purpose Strain Gages—Linear Pattern

<table>
<thead>
<tr>
<th>GAGE DIMENSIONS</th>
<th>Legend</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gage Length</td>
<td>Overall Length</td>
</tr>
<tr>
<td>0.250</td>
<td>0.363</td>
</tr>
<tr>
<td>6.35</td>
<td>9.22</td>
</tr>
</tbody>
</table>

**GAGE SERIES DATA** — See Gage Series datasheet for complete specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>L2A</td>
<td>Encapsulated constantan gages with preattached ribbon leads.</td>
<td>±3%</td>
<td>−100° to +250°F (~75° to +120°C)</td>
</tr>
<tr>
<td>C2A</td>
<td>Encapsulated constantan gages with preattached ready-to-use cables.</td>
<td>±3%</td>
<td>−60° to +180°F (~50° to +80°C)</td>
</tr>
</tbody>
</table>

**Note 1:** Insert desired S-T-C number in spaces marked XX.
General Purpose Strain Gages—Linear Pattern

<table>
<thead>
<tr>
<th>GAGE DIMENSIONS</th>
<th>Legend</th>
<th>inch</th>
<th>millimeter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gage Length</td>
<td>Overall Length</td>
<td>Grid Width</td>
<td>Overall Width</td>
</tr>
<tr>
<td>0.250</td>
<td>0.358</td>
<td>0.110</td>
<td>0.240</td>
</tr>
<tr>
<td>6.35</td>
<td>9.09</td>
<td>2.79</td>
<td>6.10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GAGE SERIES DATA</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Constant foil in combination with a tough, flexible, polyimide backing.</td>
<td>±5%</td>
<td>-100°F to +350°F (-75°C to +175°C)</td>
</tr>
<tr>
<td>ED</td>
<td>Isoelastic foil in combination with tough, flexible polyimide film.</td>
<td>±2%</td>
<td>-320°F to +400°F (-195°C to +205°C)</td>
</tr>
<tr>
<td>Ek</td>
<td>K-alloy foil in combination with a tough, flexible polyimide backing.</td>
<td>±1.5%</td>
<td>-320°F to +350°F (-195°C to +175°C)</td>
</tr>
<tr>
<td>SA</td>
<td>Fully encapsulated constant gages with high-endurance leadwires.</td>
<td>±2%</td>
<td>-100°F to +400°F (-75°C to +205°C)</td>
</tr>
<tr>
<td>SK</td>
<td>Fully encapsulated K-alloy gages with solder dots.</td>
<td>±1.5%</td>
<td>-452°F to +550°F (-269°C to +290°C)</td>
</tr>
<tr>
<td>SD</td>
<td>Equivalent to WD Series, but with solder dots instead of leadwires.</td>
<td>±1.5%</td>
<td>-452°F to +500°F (-269°C to +290°C)</td>
</tr>
<tr>
<td>WD</td>
<td>Fully encapsulated isoelectric gages with high-endurance leadwires.</td>
<td>±1.5%</td>
<td>-320°F to +500°F (-195°C to +260°C)</td>
</tr>
</tbody>
</table>

**Note 1:** Insert desired S-T-C number in spaces marked XX.

**Note 2:** Tolerance is increased when Option W, E, SE, LE, or P is specified.

**Note 3:** Products with designations and options shown in **bold** are not RoHS compliant.

*Options available but not normally recommended. See Optional Features datasheet for details.*
General Purpose Strain Gages—Linear Pattern

GAGE PATTERN DATA

<table>
<thead>
<tr>
<th>GAGE DESIGNATION</th>
<th>RESISTANCE (OHMS)</th>
<th>OPTIONS AVAILABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Note 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CEA-XX-250UN-120</td>
<td>120 ± 0.3%</td>
<td>P2</td>
</tr>
<tr>
<td>CEA-XX-250UN-350</td>
<td>350 ± 0.3%</td>
<td>P2</td>
</tr>
</tbody>
</table>

DESCRIPTION

General-purpose gage with narrow geometry. Exposed solder tab area 0.08 x 0.05 in (2.0 x 1.1 mm). See also 250UW pattern.

GAGE DIMENSIONS

<table>
<thead>
<tr>
<th>Gage Length</th>
<th>Overall Length</th>
<th>Grid Width</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.250</td>
<td>0.415</td>
<td>0.120</td>
<td>0.120</td>
<td>0.52</td>
<td>0.22</td>
</tr>
<tr>
<td>6.35</td>
<td>10.54</td>
<td>3.05</td>
<td>3.05</td>
<td>13.2</td>
<td>5.6</td>
</tr>
</tbody>
</table>

GAGE SERIES DATA — See Gage Series datasheet for complete specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEA</td>
<td>Universal general-purpose strain gages.</td>
<td>±5%</td>
<td>-100° to +350°F (-75° to +175°C)</td>
</tr>
</tbody>
</table>

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Products with designations and options shown in bold are not RoHS compliant.
## General Purpose Strain Gages—Linear Pattern

### GAGE PATTERN DATA

<table>
<thead>
<tr>
<th>GAGE DESIGNATION</th>
<th>RESISTANCE (OHMS)</th>
<th>OPTIONS AVAILABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEA-XX-250UW-120</td>
<td>120 ± 0.3%</td>
<td>P2</td>
</tr>
<tr>
<td>CEA-XX-250UW-175</td>
<td>175 ± 0.3%</td>
<td>P2</td>
</tr>
<tr>
<td>CEA-XX-250UW-350</td>
<td>350 ± 0.3%</td>
<td>P2</td>
</tr>
<tr>
<td>CEA-XX-250UW-10C</td>
<td>1000 ± 0.3%</td>
<td>P2</td>
</tr>
</tbody>
</table>

---

### DESCRIPTION

General-purpose gage. Exposed solder tab area 0.10 x 0.07 in (2.5 x 1.8 mm). See also 250UN pattern.

### GAGE DIMENSIONS

<table>
<thead>
<tr>
<th>Gage Length</th>
<th>Overall Length</th>
<th>Grid Width</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.250</td>
<td>0.450</td>
<td>0.180</td>
<td>0.180</td>
<td>0.55</td>
<td>0.27</td>
</tr>
<tr>
<td>6.35</td>
<td>11.43</td>
<td>4.57</td>
<td>4.57</td>
<td>14.0</td>
<td>6.9</td>
</tr>
</tbody>
</table>

### GAGE SERIES DATA

- **Series**
  - CEA: Universal general-purpose strain gages.

- **Description**
  - ±5%

- **Strain Range**
  - -100° to +350°F (−75° to +175°C)

---

**Note 1:** Insert desired S-T-C number in spaces marked XX.

**Note 2:** Products with designations and options shown in **bold** are not RoHS compliant.
General Purpose Strain Gages—Linear Pattern

GAGE PATTERN DATA

<table>
<thead>
<tr>
<th>GAGE DESIGNATION</th>
<th>RESISTANCE (OHMS)</th>
<th>OPTIONS AVAILABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>See Note 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CEA-XX-375UW-120</td>
<td>120 ± 0.3%</td>
<td>P2</td>
</tr>
<tr>
<td>CEA-XX-375UW-350</td>
<td>350 ± 0.3%</td>
<td>P2</td>
</tr>
</tbody>
</table>

DESCRIPTION

General-purpose gage. Exposed solder tab area 0.10 x 0.07 in (2.5 x 1.8 mm).

GAGE DIMENSIONS

<table>
<thead>
<tr>
<th>Gage Length</th>
<th>Overall Length</th>
<th>Grid Width</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.375</td>
<td>0.575</td>
<td>0.180</td>
<td>0.180</td>
<td>0.67</td>
<td>0.27</td>
</tr>
<tr>
<td>9.53</td>
<td>14.61</td>
<td>4.57</td>
<td>4.57</td>
<td>17.0</td>
<td>6.9</td>
</tr>
</tbody>
</table>

LEGEND

ES = Each Section
S = Section (S1 = Section 1)
CP = Complete Pattern
M = Matrix

GAGE SERIES DATA — See Gage Series datasheet for complete specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEA</td>
<td>Universal general-purpose strain gages.</td>
<td>±5%</td>
<td>-100° to +350°F (~75° to +175°C)</td>
</tr>
</tbody>
</table>

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Products with designations and options shown in bold are not RoHS compliant.
# General Purpose Strain Gages—Linear Pattern

## Gage Pattern Data

<table>
<thead>
<tr>
<th>Gage Designation</th>
<th>Resistance (Ohms)</th>
<th>Options Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA-XX-500BH-120</td>
<td>120 ± 0.15%</td>
<td>W, E, L, LE, P</td>
</tr>
<tr>
<td>ED-YY-500BH-350</td>
<td>350 ± 0.3%</td>
<td>E, L*, LE*, W*</td>
</tr>
<tr>
<td>WA-XX-500BH-120</td>
<td>120 ± 0.3%</td>
<td>W*</td>
</tr>
<tr>
<td>WK-XX-500BH-350</td>
<td>350 ± 0.3%</td>
<td></td>
</tr>
<tr>
<td>EP-08-500BH-120</td>
<td>120 ± 0.15%</td>
<td></td>
</tr>
<tr>
<td>SA-XX-500BH-120</td>
<td>350 ± 0.3%</td>
<td></td>
</tr>
<tr>
<td>SK-XX-500BH-350</td>
<td>350 ± 0.6%</td>
<td></td>
</tr>
<tr>
<td>SD-DY-500BH-350</td>
<td>350 ± 0.6%</td>
<td></td>
</tr>
<tr>
<td>WD-DY-500BH-350</td>
<td>350 ± 0.6%</td>
<td></td>
</tr>
</tbody>
</table>

**Description:** Widely used general-purpose gage with compact geometry. See also 500BL and 500UW patterns.

## Gage Dimensions

<table>
<thead>
<tr>
<th>Gage Length (mm)</th>
<th>Overall Length (mm)</th>
<th>Grid Width (mm)</th>
<th>Overall Width (mm)</th>
<th>Matrix Length (mm)</th>
<th>Matrix Width (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.500</td>
<td>0.720</td>
<td>0.175</td>
<td>0.175</td>
<td>0.92</td>
<td>0.30</td>
</tr>
<tr>
<td>12.70</td>
<td>18.29</td>
<td>4.45</td>
<td>4.45</td>
<td>23.4</td>
<td>7.6</td>
</tr>
</tbody>
</table>

**Legend:** ES = Each Section, S = Section (S1 = Section 1), CP = Complete Pattern, M = Matrix

## Gage Series Data

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA</td>
<td>Constant strain in combination with a tough, flexible, polyimide backing.</td>
<td>±1.0%</td>
<td>-100°C to +350°C (-150°F to +662°F)</td>
</tr>
<tr>
<td>ED</td>
<td>Isoelastic strain in combination with tough, flexible polyimide film.</td>
<td>±0.5%</td>
<td>-200°C to +400°C (-330°F to +752°F)</td>
</tr>
<tr>
<td>WA</td>
<td>Fully encapsulated constant gages with high-endurance leadwires.</td>
<td>±1.0%</td>
<td>-100°C to +400°C (-150°F to +752°F)</td>
</tr>
<tr>
<td>WK</td>
<td>Fully encapsulated K-alloy gages with high-endurance leadwires.</td>
<td>±1.5%</td>
<td>-50°C to +550°C (-58°F to +1312°F)</td>
</tr>
<tr>
<td>EP</td>
<td>Annealed constant foil with tough, high-elongation polyimide backing.</td>
<td>±2.0%</td>
<td>-100°C to +400°C (-150°F to +752°F)</td>
</tr>
<tr>
<td>SA</td>
<td>Fully encapsulated constant gages with solder dots.</td>
<td>±1.0%</td>
<td>-100°C to +400°C (-150°F to +752°F)</td>
</tr>
<tr>
<td>SK</td>
<td>Fully encapsulated K-alloy gages with solder dots.</td>
<td>±1.5%</td>
<td>-50°C to +550°C (-58°F to +1312°F)</td>
</tr>
<tr>
<td>SD</td>
<td>Equivalent to WD Series, but with solder dots instead of leadwires.</td>
<td>±1.5%</td>
<td>-320°C to +400°F (-262°F to +1040°F)</td>
</tr>
<tr>
<td>WD</td>
<td>Fully encapsulated isoelastic high-endurance leadwires.</td>
<td>±1.5%</td>
<td>-320°C to +500°F (-262°F to +1220°F)</td>
</tr>
</tbody>
</table>

**Note 1:** Insert desired S-T-C number in spaces marked XX.

**Note 2:** Temperature range is increased when Option W, F, SF, WF, or P is specified.

**Note 3:** Products with designations and options shown in **bold** are not RoHS compliant.

*Options available but not normally recommended. See Optional Features datasheet for details.*
General Purpose Strain Gages—Linear Pattern

GAGE PATTERN DATA

<table>
<thead>
<tr>
<th>GAGE DESIGNATION</th>
<th>RESISTANCE (OHMS)</th>
<th>OPTIONS AVAILABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEA-XX-500UW-120</td>
<td>120 ± 0.3%</td>
<td>P2</td>
</tr>
<tr>
<td>CEA-XX-500UW-350</td>
<td>350 ± 0.3%</td>
<td>P2</td>
</tr>
</tbody>
</table>

DESCRIPTION
General-purpose gage. Exposed solder tab area 0.10 x 0.07 in (2.5 x 1.8 mm).

GAGE DIMENSIONS

<table>
<thead>
<tr>
<th>Gage Length</th>
<th>Overall Length</th>
<th>Grid Width</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.500</td>
<td>0.700</td>
<td>0.180</td>
<td>0.180</td>
<td>0.80</td>
<td>0.27</td>
</tr>
<tr>
<td>12.70</td>
<td>17.78</td>
<td>4.57</td>
<td>4.57</td>
<td>20.3</td>
<td>6.9</td>
</tr>
</tbody>
</table>

Legend
ES = Each Section
S = Section (S1 = Section 1)
CP = Complete Pattern
M = Matrix

GAGE SERIES DATA — See Gage Series datasheet for complete specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEA</td>
<td>Universal general-purpose strain gages.</td>
<td>±5%</td>
<td>−100°F to +350°F (−75°C to +175°C)</td>
</tr>
</tbody>
</table>

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.
## General Purpose Strain Gages—Linear Pattern

### Gage Pattern Data

<table>
<thead>
<tr>
<th>Gage Designation</th>
<th>Resistance (Ohms)</th>
<th>Options Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>N2A-XX-10CBE-120</td>
<td>120 ± 0.15%</td>
<td>W, E, L, LE, P</td>
</tr>
<tr>
<td>N2A-XX-10CBE-350</td>
<td>350 ± 0.15%</td>
<td>W, E, L, LE, P</td>
</tr>
<tr>
<td>EA-XX-10CBE-120</td>
<td>120 ± 0.15%</td>
<td>W, E, L, LE, P</td>
</tr>
<tr>
<td>WA-XX-10CBE-120</td>
<td>120 ± 0.15%</td>
<td>W*</td>
</tr>
<tr>
<td>WK-XX-10CBE-350</td>
<td>120 ± 0.3%</td>
<td>W, E, L, LE, P</td>
</tr>
<tr>
<td>EP-XX-10CBE-120</td>
<td>350 ± 0.3%</td>
<td>W*</td>
</tr>
<tr>
<td>SA-XX-10CBE-120</td>
<td>120 ± 0.3%</td>
<td>W*</td>
</tr>
<tr>
<td>SK-XX-10CBE-350</td>
<td>350 ± 0.3%</td>
<td>W*</td>
</tr>
</tbody>
</table>

### Description
Large general-purpose gage.

### Gage Dimensions

<table>
<thead>
<tr>
<th>Gage Length</th>
<th>Overall Length</th>
<th>Grid Width</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.000</td>
<td>1.250</td>
<td>0.250</td>
<td>0.250</td>
<td>1.36</td>
<td>0.33</td>
</tr>
<tr>
<td>25.40</td>
<td>31.75</td>
<td>6.35</td>
<td>6.35</td>
<td>34.5</td>
<td>8.4</td>
</tr>
</tbody>
</table>

### Gage Series Data

- **Series**
  - N2A: Constantan foil gages with a thin, laminated, polyimide-film backing.
  - EA: Constantan foil in combination with a tough, flexible, polyimide backing.
  - WA: Fully encapsulated constantan gages with high-endurance leadwires.
  - WK: Fully encapsulated K-alloy gages with high-endurance leadwires.
  - EP: Annealed constantan foil with tough, high-elongation polyimide backing.
  - SA: Fully encapsulated constantan gages with solder dots.
  - SK: Fully encapsulated K-alloy gages with solder dots.

- **Description**
- **Strain Range**: ±3% to ±1.5%
- **Temperature Range**: -100°F to +200°F (-75°C to +95°C)

**Note 1:** Insert desired S-T-C number in spaces marked XX.

**Note 2:** Tension is increased when Option W, E, SE, LE, or P is specified.

**Note 3:** Products with designations and options shown in **bold** are not RoHS compliant.

*Options available but not normally recommended. See Optional Features datasheet for details.*
# General Purpose Strain Gages—Linear Pattern

## GAGE PATTERN DATA

<table>
<thead>
<tr>
<th>GAGE DESIGNATION</th>
<th>RESISTANCE (OHMS)</th>
<th>OPTIONS AVAILABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>N2A-XX-20CBW-120</td>
<td>120 ± 0.2%</td>
<td>W, E, L, LE, P</td>
</tr>
<tr>
<td>N2A-XX-20CBW-350</td>
<td>350 ± 0.2%</td>
<td>W, E, L, LE, P</td>
</tr>
<tr>
<td>EA-XX-20CBW-120</td>
<td>120 ± 0.2%</td>
<td>W, E, L, LE, P</td>
</tr>
<tr>
<td>WA-XX-20CBW-120</td>
<td>350 ± 0.2%</td>
<td>W, E, L, LE, P</td>
</tr>
<tr>
<td>WK-XX-20CBW-350</td>
<td>120 ± 0.4%</td>
<td>W*</td>
</tr>
<tr>
<td>EP-XX-20CBW-120</td>
<td>350 ± 0.4%</td>
<td>W*</td>
</tr>
<tr>
<td>SA-XX-20CBW-120</td>
<td>120 ± 0.2%</td>
<td>W*</td>
</tr>
<tr>
<td>SK-XX-20CBW-350</td>
<td>350 ± 0.4%</td>
<td>W*</td>
</tr>
</tbody>
</table>

### DESCRIPTION

For use on concrete and for strain integration on large specimens.

### GAGE DIMENSIONS

<table>
<thead>
<tr>
<th></th>
<th>Gage Length</th>
<th>Overall Length</th>
<th>Grid Width</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES</td>
<td>2.000</td>
<td>2.250</td>
<td>0.188</td>
<td>0.188</td>
<td>2.46</td>
<td>0.32</td>
</tr>
<tr>
<td>S</td>
<td>50.80</td>
<td>57.15</td>
<td>4.78</td>
<td>4.78</td>
<td>62.5</td>
<td>8.1</td>
</tr>
</tbody>
</table>

### GAGE SERIES DATA

See Gage Series datasheet for complete specifications.

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>N2A</td>
<td>Constantan foil gages with a thin, laminated, polyimide-film backing.</td>
<td>±3%</td>
<td>−100°F to +200°F (−75°C to +95°C)</td>
</tr>
<tr>
<td>EA</td>
<td>Constantan foil in combination with a tough, flexible, polyimide backing.</td>
<td>±5%</td>
<td>−100°F to +350°F (−75°C to +175°C)</td>
</tr>
<tr>
<td>WA</td>
<td>Fully encapsulated constantan gages with high-endurance leadwires.</td>
<td>±2%</td>
<td>−100°F to +400°F (−75°C to +205°C)</td>
</tr>
<tr>
<td>WK</td>
<td>Fully encapsulated K-alloy gages with high-endurance leadwires.</td>
<td>±1.5%</td>
<td>−452°F to +550°F (−269°C to +290°C)</td>
</tr>
<tr>
<td>EP</td>
<td>Annealed constantan foil with tough, high-elongation polyimide backing.</td>
<td>±20%</td>
<td>−100°F to +400°F (−75°C to +205°C)</td>
</tr>
<tr>
<td>SA</td>
<td>Fully encapsulated constantan gages with solder dots.</td>
<td>±2%</td>
<td>−100°F to +400°F (−75°C to +205°C)</td>
</tr>
<tr>
<td>SK</td>
<td>Fully encapsulated K-alloy gages with solder dots.</td>
<td>±1.5%</td>
<td>−452°F to +450°F (−269°C to +230°C)</td>
</tr>
</tbody>
</table>

**Note 1:** Insert desired S-T-C number in spaces marked XX.

**Note 2:** Tensile is increased when Option W, E, SE, LE, or W* is specified.

**Note 3:** Products with designations and options shown in **bold** are not RoHS compliant.

*Options available but not normally recommended. See Optional Features datasheet for details.*
General Purpose Strain Gages—Linear Pattern

GAGE PATTERN DATA

<table>
<thead>
<tr>
<th>GAGE DESIGNATION</th>
<th>RESISTANCE (OHMS)</th>
<th>OPTIONS AVAILABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>C2A-XX-20CLW-120</td>
<td>120 ± 0.6%</td>
<td></td>
</tr>
<tr>
<td>C2A-XX-20CLW-350</td>
<td>350 ± 0.6%</td>
<td></td>
</tr>
</tbody>
</table>

DESCRIPTION

For use on concrete and for strain integration on large specimens.

RoHS COMPLIANT

GAGE DIMENSIONS

<table>
<thead>
<tr>
<th>Gage Length</th>
<th>Overall Length</th>
<th>Grid Width</th>
<th>Overall Width</th>
<th>Matrix Length</th>
<th>Matrix Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.000</td>
<td>2.155</td>
<td>0.175</td>
<td>0.175</td>
<td>2.232</td>
<td>0.235</td>
</tr>
<tr>
<td>50.80</td>
<td>54.740</td>
<td>4.450</td>
<td>4.450</td>
<td>56.692</td>
<td>5.969</td>
</tr>
</tbody>
</table>

Legend

ES = Each Section
S = Section (S1 = Section 1)
CP = Complete Pattern
M = Matrix

Example of a C2A Construction

GAGE SERIES DATA — See Gage Series datasheet for complete specifications

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
<th>Strain Range</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>C2A</td>
<td>Encapsulated constantan gages with preattached ready-to-use cables.</td>
<td>±3%</td>
<td>-60° to +180°F (-50° to +80°C)</td>
</tr>
</tbody>
</table>

Note 1: Insert desired S-T-C number in spaces marked XX.
## General Purpose Strain Gages

<table>
<thead>
<tr>
<th>GAGE PATTERN</th>
<th>GAGE SERIES</th>
<th>GAGE RESISTANCE (OHMS)</th>
<th>GAGE LENGTH</th>
<th>GAGE DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>008CL</td>
<td>SA</td>
<td>120</td>
<td>0.008</td>
<td>0.2</td>
</tr>
<tr>
<td>015CK</td>
<td>EA, WA, EP, SA</td>
<td>120</td>
<td>0.015</td>
<td>0.38</td>
</tr>
<tr>
<td>015EH</td>
<td>EA, EP, SA, SK</td>
<td>120</td>
<td>0.015</td>
<td>0.38</td>
</tr>
<tr>
<td>015LA</td>
<td>EA, EP</td>
<td>120</td>
<td>0.015</td>
<td>0.38</td>
</tr>
<tr>
<td>015SE</td>
<td>EA, EP, SA</td>
<td>120</td>
<td>0.015</td>
<td>0.38</td>
</tr>
<tr>
<td>030LB</td>
<td>EA, EP, SA</td>
<td>120</td>
<td>0.03</td>
<td>0.76</td>
</tr>
</tbody>
</table>

**Note 1:** Products with designations and options shown in **bold** are not RoHS compliant.


Other Linear Patterns

General Purpose Strain Gages

<table>
<thead>
<tr>
<th>GAGE PATTERN</th>
<th>GAGE SERIES</th>
<th>GAGE RESISTANCE (OHMS)</th>
<th>GAGE LENGTH (inches)</th>
<th>GAGE LENGTH (millimeters)</th>
</tr>
</thead>
<tbody>
<tr>
<td>031MF</td>
<td>EA, SA</td>
<td>120</td>
<td>0.031</td>
<td>0.79</td>
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<tr>
<td></td>
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<tr>
<td>032SG</td>
<td>EA, WA, WK, EP, SA, SK</td>
<td>120</td>
<td>0.032</td>
<td>0.81</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>045AL</td>
<td>EA, SA</td>
<td>350</td>
<td>0.045</td>
<td>1.14</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>050AH</td>
<td>EA, ED, EP, SA, SK, SD</td>
<td>120, 350</td>
<td>0.05</td>
<td>1.27</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>050AR</td>
<td>EA, ED, WA, WK, SA, SK, SD, WD</td>
<td>120, 350</td>
<td>0.05</td>
<td>1.27</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>050SB</td>
<td>EA, ED, WA, WK, EP, SA, SK, SD, WD</td>
<td>120, 350</td>
<td>0.05</td>
<td>1.27</td>
</tr>
</tbody>
</table>

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**General Purpose Strain Gages**

<table>
<thead>
<tr>
<th>GAGE PATTERN</th>
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<th>GAGE RESISTANCE (OHMS)</th>
<th>GAGE LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>060CD</td>
<td>EA, ED, WA, WK, SA, SK, SD, WD</td>
<td>350, 1000</td>
<td>0.06</td>
</tr>
<tr>
<td></td>
<td>Small high-resistance gage. See also 060CN pattern. Matrix size: 0.28L x 0.20W in. (7.1L x 5.1W mm)</td>
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<td></td>
</tr>
<tr>
<td>060CN</td>
<td>EA, ED, WA, WK, EP, SA, SK, SD, WD</td>
<td>120, 350</td>
<td>0.06</td>
</tr>
<tr>
<td></td>
<td>Similar to 060CD pattern except for grid resistance. Matrix size: 0.26L x 0.18W in. (6.6L x 4.6W mm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>060CP</td>
<td>EA, ED, WA, WK, EP, SA, SK, SD, WD</td>
<td>120, 350</td>
<td>0.06</td>
</tr>
<tr>
<td></td>
<td>Small high-resistance gage with high power-handling capability. Matrix size: 0.31L x 0.26W in. (7.9L x 6.6W mm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>062DF</td>
<td>EA, ED, WA, WK, EP, SA, SK, SD, WD</td>
<td>120, 350</td>
<td>0.062</td>
</tr>
<tr>
<td></td>
<td>General-purpose gage with solder tab at each end of grid. See also 062DN pattern. Matrix size: 0.32L x 0.16W in. (8.1L x 4.1W mm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>070LC</td>
<td>EA</td>
<td>120, 350</td>
<td>0.07</td>
</tr>
<tr>
<td></td>
<td>Very narrow gage for use in restricted areas. Matrix size: 0.24L x 0.09W in. (6.1L x 2.3W mm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>090DG</td>
<td>EA, ED, EP, SA, SK, SD</td>
<td>120, 350</td>
<td>0.09</td>
</tr>
<tr>
<td></td>
<td>Intermediate-size grid with tab at each end. See also 090DH and 090EF patterns. Matrix size: 0.44L x 0.263W in. (11.2L x 6.6W mm)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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For all linear patterns offered, see www.micro-measurements.com/stress-analysis-strain-gages/all-linear-patterns/
### Other Linear Patterns

#### General Purpose Strain Gages

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<thead>
<tr>
<th>GAGE PATTERN</th>
<th>GAGE SERIES</th>
<th>GAGE RESISTANCE (OHMS)</th>
<th>GAGE LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>090DH</td>
<td>EA, ED, EP, SA, SK, SD</td>
<td>350, 1000</td>
<td>0.09, 2.29</td>
</tr>
<tr>
<td></td>
<td></td>
<td>High-resistance version of the 090DG pattern. Matrix size: 0.45L x 0.27W in. (11.4L x 6.9W mm)</td>
<td></td>
</tr>
<tr>
<td>090EF</td>
<td>EA, ED, EP, SA, SK, SD</td>
<td>120, 350</td>
<td>0.09, 2.29</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Similar to 090DG pattern but with solder tab at each side of grid. See also 090EG pattern. Matrix size: 0.29L x 0.36W in. (7.4L x 9.1W mm)</td>
<td></td>
</tr>
<tr>
<td>090EG</td>
<td>EA, ED, EP, SA, SK, SD</td>
<td>350, 1000</td>
<td>0.09, 2.29</td>
</tr>
<tr>
<td></td>
<td></td>
<td>High-resistance version of the 090EF pattern. Matrix size: 0.29L x 0.36W in. (7.4L x 9.1W mm)</td>
<td></td>
</tr>
<tr>
<td>125BS</td>
<td>ED, WK, SK, SD, WD</td>
<td>120</td>
<td>0.125, 3.18</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Narrow pattern primarily used in the WK and SK Series for 120-ohm resistance. Matrix size: 0.38L x 0.14W in. (9.7L x 3.6W mm)</td>
<td></td>
</tr>
<tr>
<td>125EP</td>
<td>EA, ED, EP, SA, SK, SD</td>
<td>350, 1000</td>
<td>0.125, 3.18</td>
</tr>
<tr>
<td></td>
<td></td>
<td>High-resistance gage with tab at each side of grid. See also 125EQ pattern. Matrix size: 0.28L x 0.35W in. (7.1L x 8.9W mm)</td>
<td></td>
</tr>
<tr>
<td>125EQ</td>
<td>EA, ED, EP, SA, SK, SD</td>
<td>120, 350</td>
<td>0.125, 3.18</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Similar to 125EP pattern except for grid resistance. Matrix size: 0.28L x 0.35W in. (7.1L x 8.9W mm)</td>
<td></td>
</tr>
</tbody>
</table>

## Other Linear Patterns

### General Purpose Strain Gages

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<th>GAGE SERIES</th>
<th>GAGE RESISTANCE (OHMS)</th>
<th>GAGE LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>inches</td>
<td>millimeters</td>
</tr>
<tr>
<td><strong>125MG</strong></td>
<td>EA, WA, WK, SA, SK</td>
<td>120, 350</td>
<td>0.125</td>
</tr>
<tr>
<td><img src="125MG.png" alt="Image" /></td>
<td></td>
<td>Dual-pattern gage for use in back-to-back bending applications. Longitudinal grid centerlines spaced 0.250 in (6.35 mm) apart. Matrix size: 0.32L x 0.47W in. (8.1L x 11.9W mm)</td>
<td></td>
</tr>
<tr>
<td><strong>125UE</strong></td>
<td>CEA</td>
<td>120, 350</td>
<td>0.125</td>
</tr>
<tr>
<td><img src="125UE.png" alt="Image" /></td>
<td></td>
<td>General-purpose gage with large tab at each end of grid. Exposed solder tab area 0.08 x 0.07 in (2.0 x 1.8 mm). Matrix size: 0.57L x 0.20W in. (14.5L x 5.1W mm)</td>
<td></td>
</tr>
<tr>
<td><strong>230DS</strong></td>
<td>EA, ED, WA, WK, EP, SA, SK, SD, WD</td>
<td>120, 350</td>
<td>0.23</td>
</tr>
<tr>
<td><img src="230DS.png" alt="Image" /></td>
<td></td>
<td>General-purpose gage with very narrow geometry. Matrix size: 0.50L x 0.12W in. (12.7L x 3.0W mm)</td>
<td></td>
</tr>
<tr>
<td><strong>250AF</strong></td>
<td>EA, ED, WA, WK, EP, SA, SK, SD, WD</td>
<td>120, 350</td>
<td>0.25</td>
</tr>
<tr>
<td><img src="250AF.png" alt="Image" /></td>
<td></td>
<td>General-purpose gage with high-dissipation grid. Matrix size: 0.57L x 0.36W in. (14.5L x 9.1W mm)</td>
<td></td>
</tr>
<tr>
<td><strong>250BB</strong></td>
<td>EA, ED, EP</td>
<td>120, 350</td>
<td>0.25</td>
</tr>
<tr>
<td><img src="250BB.png" alt="Image" /></td>
<td></td>
<td>General-purpose gage with large solder tabs. Matrix size: 0.64L x 0.21W in. (16.3L x 6.9W mm)</td>
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</tr>
<tr>
<td><strong>250BK</strong></td>
<td>EA, WA, WK, SA, SK</td>
<td>1000, 3000</td>
<td>0.25</td>
</tr>
<tr>
<td><img src="250BK.png" alt="Image" /></td>
<td></td>
<td>High-resistance gage with good power dissipation capability for high output applications or use on plastics. Matrix size: 0.58L x 0.27W in. (14.7L x 6.9W mm)</td>
<td></td>
</tr>
</tbody>
</table>

## Other Linear Patterns

### General Purpose Strain Gages

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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>250BM</td>
<td>EA, ED, WA, WK, EP, SA, SK, SD, WD</td>
<td>500, 1500</td>
<td>0.25, 6.35</td>
</tr>
<tr>
<td></td>
<td>General-purpose gage with high-resistance grid. Matrix size: 0.58L x 0.27W in. (14.7L x 6.9W mm)</td>
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<td></td>
</tr>
<tr>
<td>250BP</td>
<td>SK, WK, ED, SD, WD</td>
<td>120</td>
<td>0.25, 6.35</td>
</tr>
<tr>
<td></td>
<td>A general-purpose gage used primarily to obtain 120-ohm grid resistance in SK and WK Series. Matrix size: 0.53L x 0.22W in. (13.5L x 5.6W mm)</td>
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<td></td>
</tr>
<tr>
<td>250MQ</td>
<td>EA, ED, EK, WA, WK, SA, SK, SD, WD</td>
<td>350, 1000</td>
<td>0.25, 6.35</td>
</tr>
<tr>
<td></td>
<td>Dual pattern for back-to-back bending applications. Longitudinal grid centerlines are spaced 0.185 in (4.70 mm) apart. EK-Series gages are supplied with duplex copper pads (DP) when optional feature W or SE is not specified. Matrix size: 0.47L x 0.40W in. (11.9L x 10.2W mm)</td>
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<tr>
<td>350DD</td>
<td>EA, ED, WA, WK, EP, SA, SK, SD, WD</td>
<td>350, 1000</td>
<td>0.35, 8.89</td>
</tr>
<tr>
<td></td>
<td>General-purpose gage with narrow pattern geometry and tab at each end of grid. Matrix size: 0.61L x 0.18W in. (15.5L x 4.6W mm)</td>
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<tr>
<td>375BG</td>
<td>EA, ED, WA, WK, EP, SA, SK, SD, WD</td>
<td>120, 350</td>
<td>0.375, 9.53</td>
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<tr>
<td></td>
<td>General-purpose gage. Matrix size: 0.71L x 0.29W in. (18.0L x 7.4W mm)</td>
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<tr>
<td>500BL</td>
<td>EA, ED, WA, WK, EP, SA, SK, SD, WD</td>
<td>350, 1000</td>
<td>0.5, 12.7</td>
</tr>
<tr>
<td></td>
<td>Widely used general-purpose gage with compact geometry. Matrix size: 0.87L x 0.27W in. (22.1L x 6.9W mm)</td>
<td></td>
<td></td>
</tr>
</tbody>
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General Purpose Strain Gages

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<th>GAGE LENGTH (millimeters)</th>
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<tbody>
<tr>
<td>500GB</td>
<td>EA, ED, WA, WK, EP, SA, SK, SD, WD</td>
<td>120, 350</td>
<td>0.5</td>
<td>12.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>General-purpose gage with very narrow geometry. See also 500GC pattern. Matrix size: 0.75L x 0.15W in. (19.1L x 3.8W mm)</td>
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<td></td>
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<tr>
<td>500GC</td>
<td>EA, ED, WA, WK, EP, SA, SK, SD, WD</td>
<td>350, 1000</td>
<td>0.5</td>
<td>12.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>General-purpose gage with very narrow geometry. Matrix size: 0.78L x 0.15W in. (19.8L x 3.8W mm)</td>
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<tr>
<td>40CBY</td>
<td>N2A, EA, WA, WK, EP, SA, SK</td>
<td>120, 350</td>
<td>4</td>
<td>101.6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>For use on concrete and for strain integration on large specimens. Matrix size: 4.49L x 0.33W in. (114.0L x 8.4W mm)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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