


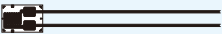
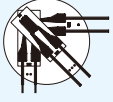
# HIGH TEMPERATURE series EF STRAIN GAUGES

Suffix code for temperature compensation materials  
-11: Mild steel

Applicable adhesives

CN	-196 ~ +120°C
EB-2	-60 ~ +200°C
C-1	-196 ~ +200°C
NP-50B	-20 ~ +300°C

## HIGH TEMPERATURE USE, MINIATURE

Gauge pattern	Basic type	Gauge size L W	Backing L W	Resistance $\Omega$
<p>These gauges have a small grid pattern required for measurement of printed circuit boards and surface mounted devices, which are getting smaller and smaller. The backing of the gauges is made of polyimide resin. The maximum operating temperature is +300°C for single element gauges and +200°C for two and three elements gauges. The lowest operating temperature is -196°C for both gauges.</p> <p><b>Single element</b></p> <p>Operating temperature range: -196°C ~ +300°C Temperature compensation range: +10°C ~ +150°C</p> <p> EFLK-02-11 (x3) Single element</p> <p> EFLX-02-11 (x3)</p> <p><b>0°/90° 2-element Rosette</b> <b>0°/45°/90° 3-element Rosette</b></p> <p> EFRA-05-11 (x3)</p> <p>0°/90° 2-element Stacked Rosette 0°/45°/90° 3-element Stacked Rosette</p> <p>Refer to pages 19~20 for applicable integral leadwires.</p>	<p><b>M</b> metal <b>C</b> ceramic</p> <p>Each package contains 10 gauges.</p> <p>Operating temperature range: -196°C ~ +300°C Temperature compensation range: +10°C ~ +150°C</p> <p>Stacked type</p> <p>N.B. -002LE: Polyimide insulated gauge lead of 2-cm pre-attached</p>	L : length W : width (Unit:mm)		
	EFLK-02-11	0.2 0.8	1.6 1.2	120
	EFLX-02-11	0.2 0.8	1.8 1.2	120
	EFCA-05-11-002LE	0.2 0.8	$\phi$ 3.8 1.2	120
	EFRA-05-11-002LE	0.2 0.8	$\phi$ 3.8 1.2	120

# HIGH & LOW TEMPERATURE series CEF STRAIN GAUGES


Suffix code for temperature compensation materials  
-11: Mild steel -17: Stainless steel -23: Aluminium

Applicable adhesives

EA-2A	-269 ~ +50°C
CN	-196 ~ +120°C
C-1	-269 ~ +200°C

For ordering, the above suffix code should be added to the basic gauge type.

## HIGH & LOW TEMPERATURE USE

Gauge pattern	Basic type	Gauge size L W	Backing L W	Resistance $\Omega$
<p>These are strain gauges utilizing polyimide resin for the gauge backing and special alloy foil for the grid. It features a wide range of operating temperature from cryogenic temperature to +200°C. This series is available only in single axis configuration with gauge length of 1, 3 and 6mm.</p> <p><b>Single element</b></p> <p> CEFLA-1 (x3)</p> <p>Refer to pages 19~20 for applicable integral leadwires.</p>	<p><b>M</b> metal <b>C</b> ceramic</p> <p>Operating temperature range: -269°C ~ +200°C Temperature compensation range approximately: -196°C ~ +80°C</p> <p>Each package contains 10 gauges.</p>	L : length W : width (Unit:mm)		
	CEFLA-1	1 0.5	4 2.2	120
	CEFLA-3	3 0.6	6.9 2.8	120
	CEFLA-6	6 1	10.6 3.1	120