HIGH TEMPERATURE STRAIN GAUGES series EF

Suffix code for temperature compensation materials
-11: Mild steel

M metal C ceramic

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

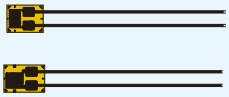
These gauges have a small grid pattern required for measurement of printed circuit boards and surface mounted devices, which are getting smaller and smaller. The backing of the gauges is made of polyimide resin. The maximum operaing temperature is +300°C for single element gauges and +200°C for two and three elements gauges. The lowest operating temperature is –196°C for both gauges.

CE

Each package contains 10 gauges.

Single element

Operating temperature range –196°C ~ +300°C
Temperature compensation range +10°C ~ +150°C



EFLK-02-11 (x3)
EFLX-02-11 (x3)

Gauge pattern	Basic type	Gauge size L	Gauge size W	Backing L	Backing W	Resistance Ω
Single element	EFLK-02-11	0.2	0.8	1.6	1.2	120
	EFLX-02-11	0.2	0.8	1.8	1.2	120

0°/90° 2-element Rosette
0°/45°/90° 3-element Rosette

Operating temperature range –196°C ~ +200°C
Temperature compensation range 0°C ~ +150°C



EFRA-05-11 (x3)

Gauge pattern	Basic type	Gauge size L	Gauge size W	Backing L	Backing W	Resistance Ω
	Stacked type					
0°/90° 2-element Stacked Rosette	EFCA-05-11-002LE	0.2	0.8	φ 3.8	1.2	120
0°/45°/90° 3-element Stacked Rosette	EFRA-05-11-002LE	0.2	0.8	φ 3.8	1.2	120

N.B. -002LE: Polyimide leadwire of 2-cm pre-attached

HIGH & LOW TEMPERATURE STRAIN GAUGES series CEF

Operating temperature range –269°C ~ +200°C
Temperature compensation range approximately –196°C ~ +80°C

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

Backing colors are all the same with different materials For ordering, the above suffix code should be added to the basic gauge type.

Applicable adhesives

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

HIGH & LOW TEMPERATURE USE

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.

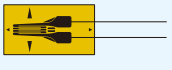
M metal C ceramic

CE

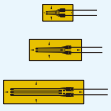
L : length W : width (Unit:mm)

Each package contains 10 gauges.

Single element



CEFLA-1 (x3)



Gauge pattern	Basic type	Gauge size L	Gauge size W	Backing L	Backing W	Resistance Ω
Single element	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

Recommendable integral leadwire for CEF series

Application	Leadwires	Operating temperature (°C)	Leadwire code exampled
High temperature	3-wire twisted FEP 6FA_LT-F (No Tetra-Etch required for surface) 3-wire twisted FEP 6FB_LT-F	-269~ +200	CEFLA-1-11-6FA3LT-F CEFLA-1-11-6FB3LT-F
	3-wire twisted PTFE 4FA_LT-F 3-wire twisted PTFE 4FB_LT-F	-269~ +260	CEFLA-1-11-4FA3LT-F CEFLA-1-11-4FB3LT-F