



## **EF-Series**

High Temperature Strain Gauges

## GENERAL USE

CE

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.

Operating temperature range For more information, please see below. Temperature compensation range For more information, please see below. Applicable adhesives

- 196~+120°C EB-2

- 60 ~ +200°C - 196 ~ +200°C C-1 NP-50 - 30 ~ +300°C

Please specify the	type number as shown in the example below.
EFLK <u>-02</u> -11	_ <del>-4FA3LT-F</del>
$ \uparrow $	Length in meter and type of integral leadwire CE compliant leadwire
	— Objective material for temperature compensation — Gauge length
Gauç	ge series name
	al for temperature compensation ear thermal expansion ×10 <sup>-6</sup> /°C)

	Gauge pattern		Туре	Gauge s Length	size(mm) Width	Backing s Length	size(mm) Width	Resist- ance Ω
High Temperature	Backing length Gauge width Gauge width  Gauge width  EFLX-02-11							
nperature	• Single axis Operating temperature range Temperature compensation range  -196 ~ + 300°C + 10 ~ + 150°C	<b>Q</b> (× 3)	EFLK-02-11	0.2	0.8	1.6	1.2	120
		<b>Q</b> (× 3)	EFLX-02-11	0.2	0.8	1.8	1.2	120
Single axis/Multi-axis	0°/90° 2-axis Stacked     Operating 400 4 200°C							
s/Multi-axis	temperature range		=002LE: Polyimide insulated g	0.5 nauge lead	0.4	φ 3		120
	compensation range		SOZZZ. F GJirindo iriodiatod galago isad of Z sin pro ditadriod					
•	• 0°/45°/90° 3-axis Stacked Operating -196 ~ + 200°C	EFRA-05-11 <b>Q</b> (× 3)	EFRA-05-11-002LE	0.5	0.4	φ3	.8	120
	temperature range  Temperature compensation range	211010011 (40)	-002LE: Polyimide insulated gauge lead of 2-cm pre-attached					
	Minimum order quantity is 10 strain gauges.							

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The information provided herein is to the best of our knowledge true and accurate, it is provided for guidance only. All specifications are subject to change without prior notification.