





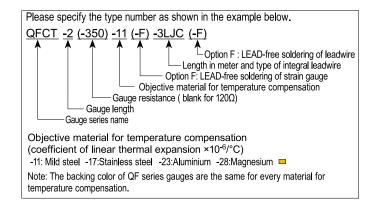
## QF-Series

High Temperature Strain Gauges

## DESCRIPTION

These are foil strain gauges having a polyimide resin backing, which exhibits excellent performance in high temperature up to 200°C. Stress concentration measurement gauges and shear stress measurement gauges are also available in this series. Integral leadwires using lead-free solder are available with option – F.

Operating temperature range  $-20 \sim +200^{\circ}\text{C}$  NP-50  $-20 \sim +200^{\circ}\text{C}$  Temperature compensation range  $+10 \sim +100^{\circ}\text{C}$  CN  $-20 \sim +200^{\circ}\text{C}$  CN  $-20 \sim +120^{\circ}\text{C}$ 



## SHEARING / TORQUE / PLANE

Gaug	Туре	Gauge size(mm) Length Width		Backing size(mm) Length Width		Resist- ance Ω	
Shearing strain measurement							
Gauge backing length	Q(x 3)	QFLT-05A-11-002LE	0.55	0.66	4	1.3	120
	<b>Q</b> (x 3)	QFLT-05B-11-002LE	0.55	0.66	4	1.3	120
Backing width width	Q(x 3)	QFLT-1A-11-002LE	1.2	1.1	5.7	2	120
		QFLT-1-350A-11-002LE	1.2	1.1	5.7	2	350
Galige Width	Q(x 3)	QFLT-1B-11-002LE	1.2	1.1	5.7	2	120
"		QFLT-1-350B-11-002LE	1.2	1.1	5.7	2	350
Torque measurement		-002LE: Polyimide insulated gauge lead of 2-cm pre-attached					
		QFCT-2	2	1.5	8.7	6.5	120
QFCT-2	QFCT-2-350	QFCT-2-350	2	1.5	7.6	5.3	350
• 0°/90° 2-axis Plane type							
1. 10 <b>2</b> a	QFCB-2	QFCB-2	2	1.5	<b>X</b> / <b>S</b> 8.2	<b>f</b> axis	120
Minimum order quantity is 10 strain gauges.	YX						





## STRESS CONCENTRATION MASUREMENT

Gauge pattern			Туре	Gauge s Length	size(mm) Width	Backing : Length		Resist- ance Ω	
• 5-element Single-axis									
Gauge pitch X-axis magnified	Y-axis magnified								
	raaaa www -	Gauge pitch 2mm	QFXV-1-11-002LE	1	1.3	5	12	120	
			QFYV-1-11-002LE	1	1.4	5	12	120	
QFXV-1 X-ax s magnified	QFYV-1 Y-axis magnified		-002LE: Polyimide insulated gauge lead of 2-cm pre-attached						
		Gauge pitch 1mm	QFBXV-04-11-005LE	0.4	1.3	5.4	7.4	120	
			QFBYV-06-11-005LE	0.6	0.8	5.3	7	120	
QFBXV-04	QFBYV-06		-005LE: Polyimide insulated gauge lead of 5-cm pre-attached						
<ul> <li>Single axis</li> </ul>									
Single element cut away fro Concentration gauge	m the above Stress		QFBX-04-11-005LE	0.4	1.3	5.4	1	120	
		Single axis	QFBY-06-11-005LE	0.6	0.8	5.3	1	120	
QFBX-04 <b>Q</b> (×3)	QFBY-06 <b>Q</b> (×3)		QFLX-1-11-002LE	1	1.3	5	2	120	
Minimum order quantity is 10 strain ga	-005LE: Polyimide insulated gauge lead of 5-cm pre-attached -002LE: Polyimide insulated gauge lead of 2-cm pre-attached								