



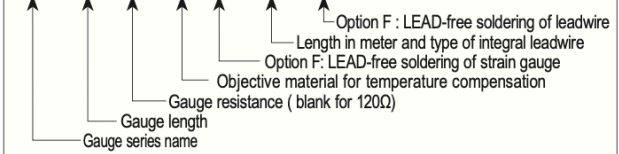
High Temperature Strain Gauges QF series C€

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~+200°C	Applicable adhesives	NP-50B -20~+200°C
Temperature compensation range	+10~+100°C	C-1/EB-2	-20~+200°C
		CN	-20~+120°C

Please specify the type number as shown in the example below.

QFCT -2 (-350) -11 (-F) -3LJC (-F)



Objective material for temperature compensation (coefficient of linear thermal expansion $\times 10^{-6}/^{\circ}\text{C}$)
 -11: Mild steel -17:Stainless steel -23:Aluminium -28:Magnesium

Note: The backing color of QF series gauges are the same for every material for temperature compensation.

Shearing • Torque • Plane

Gauge pattern	Type	Gauge size(mm)		Backing size(mm)		Resistance Ω
		Length	Width	Length	Width	
● Shearing strain measurement						
	QFLT-05A-11-002LE	0.55	0.66	4	1.3	120
	QFLT-05B-11-002LE	0.55	0.66	4	1.3	120
	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
	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
-002LE: Polyimide insulated gauge lead of 2-cm pre-attached						
	QFCT-2	2	1.5	8.7	6.5	120
	QFCT-2-350	2	1.5	7.6	5.3	350
● Torque measurement						
	QFCB-2	2	1.5	X / Y axis 8.2	8	120
● 0° / 90° 2-axis Plane type						
Minimum order quantity is 10 strain gauges.						

Stress Concentration Measurement

Gauge pattern	Type	Gauge size(mm)		Backing size(mm)		Resistance Ω
		Length	Width	Length	Width	
● 5-element Single-axis						
	QFXV-1	1	1.3	5	12	120
	QFYV-1	1	1.4	5	12	120
-002LE: Polyimide insulated gauge lead of 2-cm pre-attached						
	QFBXV-04	0.4	1.3	5.4	7.4	120
	QFBYV-06	0.6	0.8	5.3	7	120
-005LE: Polyimide insulated gauge lead of 5-cm pre-attached						
● Single axis						
Single element cut away from the above Stress Concentration gauge						
	QFBX-04 Q(x3)	0.4	1.3	5.4	1	120
	QFBY-06 Q(x3)	0.6	0.8	5.3	1	120
	QFLX-1-11-002LE	1	1.3	5	2	120
-005LE: Polyimide insulated gauge lead of 5-cm pre-attached -002LE: Polyimide insulated gauge lead of 2-cm pre-attached						
Minimum order quantity is 10 strain gauges.						