

# HIGH TEMPERATURE STRAIN GAUGES series QF

Operating temperature range  
 -20°C +200°C  
 Temperature compensation range  
 +10°C +100°C

Suffix code for temperature compensation materials  
 -11: Mild steel (ferritic)    -28: Magnesium

Applicable adhesives	CN	-20 to +120°C
	NP-50B	-20 to +200°C
	C-1	-20 to +200°C

## GENERAL PURPOSE/SHEARING STRESS MEASUREMENT

Gauge pattern	Basic type	Gauge size		Backing		Resistance Ω		
		L	W	L	W			
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.								
		L : length		W : width (Unit:mm)				
<b>Single element : QFLG/QFLA/QFLK</b>								
Each package contains 10 gauges.								
	General purpose		QFLG-02-11	0.2	1.4	3.5	2.5	120
			QFLA-1-11	1	1.3	5.0	2.5	120
			QFLA-2-11	2	1.5	6.5	3.0	120
			QFLA-3-11	3	1.7	8.8	3.5	120
			QFLA-5-11	5	1.5	10.0	3.0	120
			QFLA-6-11	6	2.2	12.5	4.3	120
	FLK type with narrow gauge base		QFLK-1-11	1	0.7	4.5	1.4	120
			QFLK-2-11	2	0.9	5.5	1.5	120
	for Magnesium		QFLK-2-28	2	0.9	5.5	1.5	120
	High gauge resistance		QFLA-1-350-11	1	2.0	5.0	4.0	350
			QFLA-2-350-11	2	1.9	6.1	3.5	350
			QFLA-3-350-11	3	3.2	8.5	5.0	350
			QFLA-6-350-11	6	2.6	12.5	4.5	350
			QFLA-6-1000-11	6	4.6	13.5	7.0	1000
	<b>0°/90° 2-element Rosette Plane : QFCA</b>							
Each package contains 10 gauges.								
	QFCA-1-11	1	1.3	7.2	7.2	120		
	QFCB-2-11	2	1.5	8.2	8.0	120		
<b>0°/45°/90° 3-element Rosette Plane : QFRA</b>								
Each package contains 10 gauges.								
	QFRA-1-11	1	1.3	7.2	7.2	120		
	QFRA-3-11	3	1.7	11.0	11.0	120		
<b>Single element Shearing strain measurement</b>								
Each package contains 10 gauges.								
		(x 3)	QFLT-05A-11-002LE	0.5	0.66	4.0	1.3	120
		(x 3)	QFLT-05B-11-002LE	0.5	0.66	4.0	1.3	120
		(x 3)	QFLT-1A-11-002LE	1.2	1.1	5.7	2.0	120
		(x 3)	QFLT-1-350A-11-002LE	1	1.1	5.7	2.0	350
		(x 3)	QFLT-1B-11-002LE	1.2	1.1	5.7	2.0	120
		(x 3)	QFLT-1-350B-11-002LE	1	1.1	5.7	2.0	350

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