## series **HIGH TEMPERATURE** STRAIN GAUGES

Operating temperature range –20°C **⋐** +200°C Temperature compensation range +10°C =

Suffix code for temperature compensation materials

-11: Mild steel -17: Stainless steel -23: Aluminium -28: Magnesium

Applicable adhesives

CN -20 ~ +120°C NP-50B −20 ~ +200°C 

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

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GENERAL PURPOSE/SHEARING STRESS MEASUREMENT							
Gauge pattern		Basic type	Gauge L	e size W		king W T	Resistance $\Omega$
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.		metal C ceramic					
Single element : QFLG/QFLA/QF	ELK	Each package contains 10 gauges.					
Gauge backing length	General purpose	QFLG-02-11	0.2	1.4	3.5	2.5	120
Gauge	parpood	QFLA-1-11	1	1.3	5	2.5	120
E Length		QFLA-2-11	2	1.5	6.5	3	120
Gauge backing width Gauge Width Width		QFLA-3-11	3	1.7	7.7	3.5	120
Gauge by Width Width Width	·	QFLA-5-11	5	1.5	10	3	120
		QFLA-6-11	6	2.2	11	4.3	120
	FLK type with narrow gauge	QFLK-1-11	1	0.7	4.5	1.4	120
	base	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	1.6	4.5	3	350
		QFLA-2-350-11	2	1.9	6	3.5	350
		QFLA-3-350-11	3	1.6	7.2	3	350
		QFLA-6-350-11	6	2.6	10.8	4.5	350
		QFLA-6-1000-11	6	4.6	11	7	1000
0°/90° 2-element plane Rosette QFCA		Each package contains 10 gauges.					
		QFCA-1-11	1	1.3	7.2	7.2	120
· <b>1</b>		QFCA-3-11	3	1.7	11	11	120
QFCA-1-11 Y X QFCB-2-11		QFCB-2-11	X and `	Y axes 1.5	8.2	8	120
0°/45°/90° 3-element plane Rosette QFRA		Each package contains 10 gauges.					
· <u>市</u>		QFRA-1-11	1	1.3	7.2	7.2	120
QFRA-1-11		QFRA-3-11	3	1.7	11	11	120
Single element Shearing strain measurement		Each package contains 10 gauges.					
Gauge Gauge backing length  Length	_ (x 3) ===	QFLT-05A-11-002LE	0.5	0.66	4	1.3	120
	(x 3)	QFLT-05B-11-002LE	0.5	0.66	4	1.3	120
Gauge backing width width	(x 3)	QFLT-1A-11-002LE	1.2	1.1	5.7	2	120
Gauge		QFLT-1-350A-11-002LE	1.2	1.1	5.7	2	350
Width	(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
		N.B002LE: Polyimide lea	adwire of	2-cm pı	e-attach	ed	

Operating temperature range

-20°C +200°C

Temperature compensation range +200°C

+10°C +100°C

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

## HIGH TEMPERATURE STRAIN GAUGES

series C

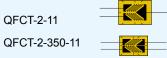
QF

Applicable adhesives

CN	−20 ~ +120°C
NP-50B	−20 ~ +200°C
C-1/EB-2	−20 ~ +200°C

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

STRESS CONCENTRATION MEASUREMENT							
Gauge pattern		Basic type	Gauge L	e size W	Bac L	king W T	Resist- ance <b>Ω</b>
	CE						
5-element single-axis : QFXV/	, ,	VV Fach nacks		taina 10	) aauaa		
•		YV Each packa	ige com	lains it	gauge	<b>:</b> S.	
QFXV-1-11-002LE QFYV-1-11-	002LE						
Gauge pitch	Gauge pito	h QFXV-1-11-002LE	1	1.3	5	12	120
	2mm	QFYV-1-11-002LE	1	1.4	5	12	120
X-axis	Y-axis	N.B002LE: Polyimide ins	sulated o	auge lea	ad of 2-c	cm pre-a	ttached
magnified	magnified	,		,			
OFBXV-04 QFBYV-06							
QFBXV-04 QFBYV-06		050000000000	0.4	4.0			400
	Gauge pito		0.4	1.3 0.8	5.4	7.4	120
	nagnified						120
magnified n	N.B005LE: Polyimide le	eadwire c	of 5-cm p	ore-attac	hed		
Circula alamanta OFDY/OFDY/	OFL V						
Single element : QFBX/QFBY/		Each package contains 10 gauges.					
Single element cut away from the above Stress Concentration gauge.			<b>J</b>		3-3		
		QFBX-04-11-005LE	0.4	1.3	5.4	1	120
QFBX-04 (x 3)		QFBY-06-11-005LE	0.6	0.8	5.3	1	120
QFBY-06		QFLX-1-11-002LE	1	1.3	5	2	120
QFLX-1 (x 3)		N.B005LE: Polyimide lea	adwire of	f 5-cm p	re-attacl	ned	
(x 3)		N.B002LE: Polyimide leadwire of 2-cm pre-attached					
(X 0)							
Torque measurement : QFCT		Food and the	Each package contains 10 gauges.				
		⊨асп раска	ige con	iains 10	gauge	<del>2</del> S.	
		QFCT-2-11	2	1.5	8 7	6.5	120



QFCT-2-11	2	1.5	8.7	6.5	120
QFCT-2-350-11	2	1.7	7.6	5.3	350

## Recommendable integral leadwire for QF series

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

