



€ QF-Series **GOBLET**
High Temperature Strain Gauges

GENERAL USE



These are CE marked strain gauges (compliant to RoHS2 Directive) for high temperature use. They have joined to our well proven QF-series strain gauges with a new series name „GOBLET“. These are foil strain gauges utilizing polyimide resin as the backing material. Measurement in high temperature is easily possible by using our roomtemperature- curing adhesive NP-50 for bonding.

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

QFLA B -6 (-350) -11 -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.

Operating temperature range	-30 ~ + 200°C	Applicable adhesives	NP-50 - 30 ~ + 200°C
Temperature compensation range	+ 10 ~ + 100°C	C-1/EB-2	- 30 ~ + 200°C
		CN	- 30 ~ + 120°C

SINGLE AXIS/MULTI-AXIS

Gauge pattern	Type	Gauge size(mm)		Backing size(mm)		Resist-ance Ω
		Length	Width	Length	Width	
 • Single axis QFLGB-02 QFLAB-1	General purpose					
	QFLGB-02	0.2	1.4	3.5	2.5	120
	QFLAB-03	0.3	1.4	3	2	120
	QFLAB-1	1	1.1	4.7	2	120
	QFLAB-2	2	1.5	6.5	3	120
	QFLAB-3	3	1.7	7.7	3.5	120
	QFLAB-5	5	1.5	10	3	120
	QFLAB-6	6	2.2	11	4.3	120
	QFLAB-30	30	2	35	5	120
	FLK type with narrow backing					
QFLKB-1	1	0.7	4.5	1.4	120	
QFLKB-2	2	0.9	5.5	1.5	120	
for magnesium alloy	QFLKB-2-28	2	0.9	5.5	1.5	120
gauge resistance 350Ω	QFLAB-1-350	1	1.6	4.5	3	350
	QFLAB-1W-350	1	2	4.7	3.6	350
	QFLAB-2-350	2	1.9	6	3.5	350
	QFLAB-3-350	3	1.6	7.2	3	350
	QFLAB-3W-350	3	3.2	8.5	5	350
	QFLAB-6-350	6	2.6	10.8	4.5	350
High gauge resistance 1000Ω	QFLAB-6-1000	6	4.6	11	7	1000
• 0°/90° 2-axis Stacked type	QFCAB-1	1	0.7	φ4.5		120
	QFCAB-3	3	1.7	φ11		120
• 0°/45°/90° 3-axis Stacked type	QFRAB-1	1	0.7	φ4.5		120
	QFRAB-3	3	1.7	φ11		120

Minimum order quantity is 10 strain gauges.



Dedicated leadwire recommended for QF series strain gauges (**GOBLET**) (made to order)

We supply various leadwires dedicated to strain gauges so as to meet our customers' requirements. Please refer to page 32 to 40 for the details of combination of a strain gauge and a leadwire. For CE marked GOBLET series strain gauges, only the leadwires using lead-free solder are available.

Type and designation of leadwires

Usage	Leadwire name	Operating temperature range of leadwire (°C)	Type number example
General purpose (without temperature change)	Parallel vinyl leadwire LJC-F	-20 ~ +80	QFLAB-1-11-3LJC-F
General purpose	3-wire parallel vinyl leadwire LJCT-F	-20 ~ +80	QFLAB-1-11-3LJCT-F
High temperature	3-wire twisted FEP leadwire 6FA □ LT-F	-269 ~ +200	QFLAB-1-11-6FA3LT-F
	3-wire twisted FEP single-core leadwire 6FB □ LT-F		QFLAB-1-11-6FB3LT-F

NB: □ shows the lead wire length in meter