



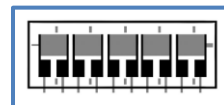
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R51 – 5-ELEMENT 90° STRAIN GAGE



Features

- Gage Length 1mm to 2mm
- 90° 5-Element
- Gage Resistance 120Ω within ±0.3% of the nominal resistance
- Gage Factor 2.00 (Nominal) 1.90 to 2.10
- Measurable Strain 2 to 4% maximum Up to 10% with yielding strain
- Temperature Range –30°C to +80°C
- Thermal Output ±2μst/°C(RT to +80°C) Compensated temperature range
- Gage Factor Change with Temperature ±0.015%/°C
- Fatigue Life More than 1×10⁵ reversals at ±1000×10⁶ strain

Type	Nominal Resistance (Ω)	Dimension (mm)			
		Grid		Base	
		Length	Width	Length	Width
R51-FA-03-120-(11)-P4	120	0.3	1.2	6.0	5.0
R51-FA-1-120-(11)	120	1.0	0.5	11.0	4.0
R51-FA-2-120-(11)	120	2.0	0.8	15.0	4.5
R51-MA-03-120-(11)-P4	120	0.3	1.2	6.0	5.0
R51-MA-1-120-(11)	120	1.0	0.5	11.0	4.0
R51-MA-2-120-(11)	120	2.0	0.8	15.0	4.5



Micro Sensor Technology

SHOWA MEASURING INSTRUMENTS INC.

Tokyo Japan