

Type HJ Series

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The HJ type resistors have higher reliability when they are mounted on board, and excellent long term stability.

These are used mainly in semiconductor equipments, X-ray apparatus, and many other measuring instruments.

Key Features

- Low TCR's
- Close Resistance Tolerances
- Small compact size
- High Reliability
- Excellent long-term stability
- High resistance to pulse voltages
- Special Coatings for High Humidity
- High thermal shock resistance when mounted to PCB

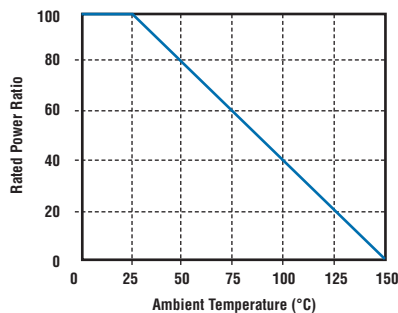
Characteristics - Electrical

Type	Power Rating @ 25°C (W)	Max. Working Voltage DC (kV)	Impulse Voltage (kV) 1.2 x 50 Microseconds	Resistance Range (Ohms)	Resistance Tolerance (%)	Temperature Coefficient (ppm)
HJ55	0.25W	0.75	1.5	100K-100M	0.1, 0.25	±25, ±50, ±100
HJ60	0.5W	1.5	3.0	100K-100M	0.1, 0.25	±25, ±50, ±100
HJ65	1.0W	2.0	4.0	100K-100M	0.1, 0.25	±25, ±50, ±100
HJ70	2.0W	5.0	10.0	100K-100M	0.1, 0.25	±25, ±50, ±100
HJ80	3.0W	10.0	20.0	1M-100M	0.1, 0.25	±25, ±50, ±100

Characteristics - Environmental

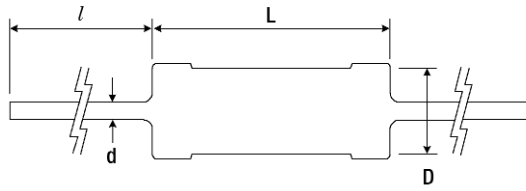
Test Item	Characteristics	Test Method
Operating Temperature Range:	-55°C to +150°C	
Short Term Overload:	±0.1%	Rated Voltage x 2.5 applied for 5 seconds
Resistance to Soldering Heat:	±0.1%	260°C for 10 seconds or 380°C for 3 seconds
Thermal Shock:	±0.1%	-55°C to +150°C, 5 cycles
Long Term Stability:	±0.3%	At normal temperature and humidity for 10,000 hours without load
Moisture Resistance:	±0.3%	40°C 90 ~ 95%RH for 1,000 hours exposure without load
Load Life:	±0.5%	25°C Rated power x _ for 1,000 hours
Temperature Coefficient:	"D" ±25ppm "C" ±50ppm "Z" ±100ppm	The test data is based on a temperature difference of 50°C (reference temperature 25°C; measurement temperature, 75°C)

Derating Curve



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Dimensions



Style	D ± 1.0	L ± 1.0	d ± 0.05	l min.
HJ55	3.0	9.0	0.6	38
HJ60	4.5	13.0	0.8	38
HJ65	4.5	14.5	0.8	38
HJ70	5.5	26.5	1.0	38
HJ80	8.5	42.0	1.0	38

How to Order

HJ55	100K	B	D
Common Part	Resistance Value	Tolerance	T.C.R.
HJ55 HJ60 HJ65 HJ70 HJ80	100K Ohm (100,000 Ohms) 100K 1 Meg Ohm (1,000,000 Ohms) 1M0	B - 0.1% C - 0.25%	D - ± 25 ppm C - ± 50 ppm Z - ± 100 ppm