

High Precision / High Voltage Resistors



TYPE HJ SERIES

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
- Low 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

STOCKISTS:

This product is not stocked in Distribution.

TYPE HJ SERIES

1st April 2003
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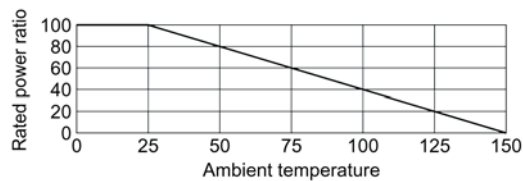
ELECTRICAL

TYPE	Power Rating @ 25°C (Watts)	Maximum Working Voltage DC (kV)	Impulse Voltage (kV) 1.2 x 50 micro-seconds	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	100K - 100M	0.1, 0.25	±25, ±50, ±100
HJ65	1.0W	2	4	100K - 100M	0.1, 0.25	±25, ±50, ±100
HJ70	2.0W	5	10	100K - 100M	0.1, 0.25	±25, ±50, ±100
HJ80	3.0W	10	20	1M - 100M	0.1, 0.25	±25, ±50, ±100

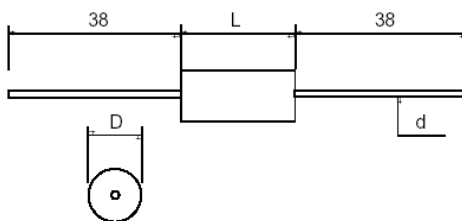
ENVIRONMENTAL

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 10,000hours 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 ½ 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)

POWER DERATING CURVE



DIMENSIONS



All Dimensions are nominal and in 'mm' unless otherwise stated. Do not Scale.

TYPE	Body Diameter (D ±1.0)	Body Length (L ±1.0)	Lead Diameter (d ±0.05)
HJ55	3.0	9.0	0.6
HJ60	4.5	13.0	0.8
HJ65	4.5	14.5	0.8
HJ70	5.5	26.5	1.0
HJ80	5.5	42.0	1.0

HOW TO ORDER

HJ55	100K	B	B
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 - ±25ppm C - ±50ppm Z - ±100ppm

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