

Type HJ Series

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



The HJ type resistors have higher reliability when they are mounted on board, and excellent long term stability. These are used mainly in semi- conductor equipments, X-ray apparatus, and many other measuring instruments.

Characteristics - Electrical

Туре	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	The test data is based on a temperature	
	"C" ±50ppm	difference of 50°C (reference temperature	
	"Z" ±100ppm	25°C; measurement temperature, 75°C)	



High Precision / High Voltage Resistors

Type HJ Series

Derating Curve



Dimensions



Style	D ± 1	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

HH55	100K	F	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 - ±25ppm C - ±50ppm Z - ±100ppm

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