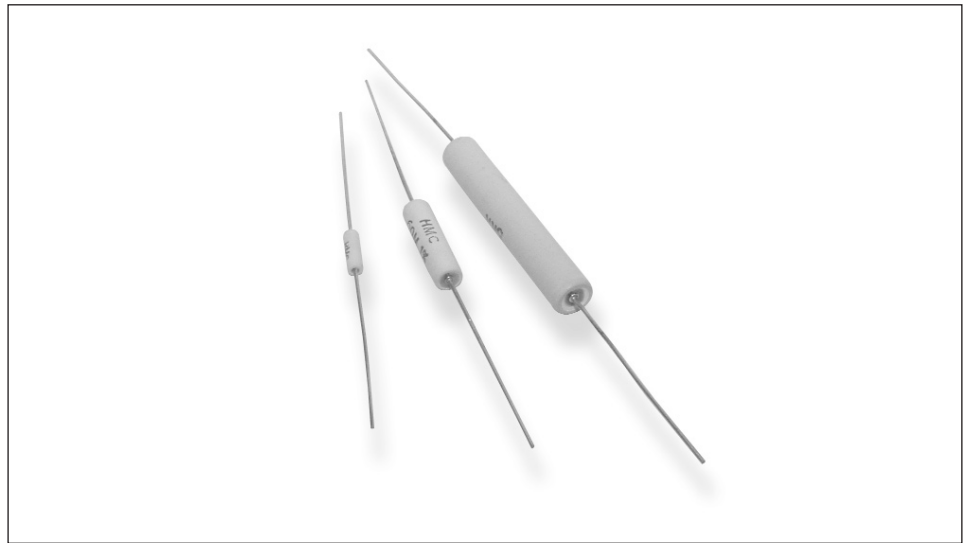


## Type HJ Series

### 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

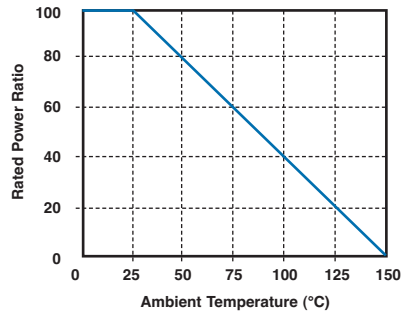
Type	Power Rating @ 25°C (W)	Max. Working Voltage DC (kV)	Impulse Voltage (kV) 1.2 x 50 Microseconds	Resistance Range (Ohms)	Resistance Tolerance (%)	Temperature Coefficient (ppm)
HJ55	0.25W	0.75	1.5	100K-100M	0.1, 0.25	±25, ±50, ±100
HJ60	0.5W	1.5	3.0	100K-100M	0.1, 0.25	±25, ±50, ±100
HJ65	1.0W	2.0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

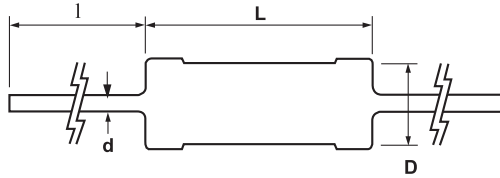
Test Item	Characteristics	Test Method
<b>Operating Temperature Range:</b>	-55°C to +150°C	
<b>Short Term Overload:</b>	±0.1%	Rated Voltage x 2.5 applied for 5 seconds
<b>Resistance to Soldering Heat:</b>	±0.1%	260°C for 10 seconds or 380°C for 3 seconds
<b>Thermal Shock:</b>	±0.1%	-55°C to +150°C, 5 cycles
<b>Long Term Stability:</b>	±0.3%	At normal temperature and humidity for 10,000 hours without load
<b>Moisture Resistance:</b>	±0.3%	40°C 90 ~ 95%RH for 1,000 hours exposure without load
<b>Load Life:</b>	±0.5%	25°C Rated power x $\frac{1}{2}$ for 1,000 hours
<b>Temperature Coefficient:</b>	"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)

## 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

TE Connectivity, TE connectivity (logo) and TE (logo) are trademarks.  
Other logos, product and Company names mentioned herein may be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information in this datasheet, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this datasheet are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications.