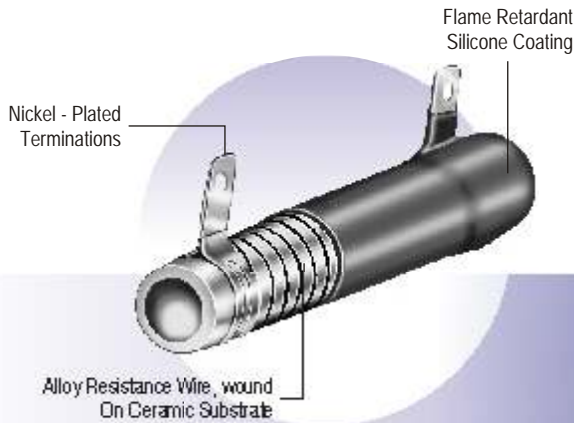




# HIR SERIES

## HI POWER

Silicone Coated Wire Wound Resistors  
Industrial / Professional Applications

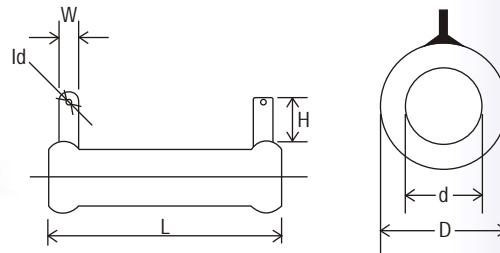


- Highly stable
- 10 W to 400 Watts
- R 25 to 100 K
- Useful for inexpensively dissipating large amounts of power in DC or low frequency AC circuits.



### APPLICABLE STANDARDS

JSS - 50402 (Pattern RFHT -2), IS - 8909 (Type FRP4)  
IEC - Pub 266 and Pub 266A [Type - 2E]  
MIL - R 26, Char V or Char U  
(depending on resistance tolerance)

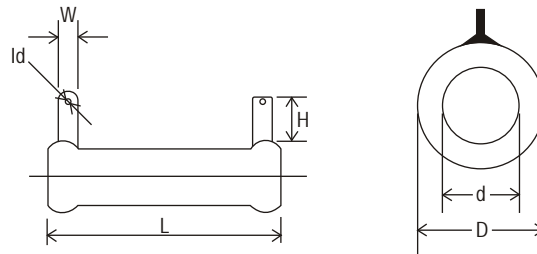


### PHYSICAL CONFIGURATION

HTR TYPE	POWER RATING at 70°C	DIMENSIONS (mm)						MOUNTING HARDWARE AVAILABLE	RESISTANCE RANGE	
		L ±3	*D ±2	d ±1	W ±0.35	Id ±0.3	H [min]		min	max
R-10A	10W	27.0	15.0	7.7	4.75	1.4	6.35	101/301	R22	1K0
R-10B	10W	27.0	15.0	7.7	5.0	3.0	7.0	101/301	R22	1K0
R-15A	15W	40.0	15.0	7.7	4.75	1.4	6.35	101/301	R27	3K0
R-15B	15W	40.0	15.0	7.7	5.0	3.0	7.0	101/301	R27	3K0
R-20A	20W	60.0	15.0	7.7	4.75	1.4	6.35	101/301	R50	5K0
R-20B	20W	60.0	15.0	7.7	5.0	3.0	7.0	101/301	R50	5K0
R-25A	25W	75.0	15.0	7.7	4.75	1.4	6.35	101/301	R50	10K
R-25B	25W	75.0	15.0	7.7	5.0	3.0	7.0	101/301	R50	10K
R-40A	40W	75.0	26.0	14.3	4.75	1.4	6.35	102/303	1R0	15K
R-40B	40W	75.0	26.0	14.3	5.0	3.0	7.0	102/303	1R0	15K
R-50A	50W	100.0	26.0	14.3	4.75	1.4	6.35	102/303	1R6	20K
R-50B	50W	100.0	26.0	14.3	5.0	3.0	7.0	102/303	1R6	20K
R-60A	60W	115.0	26.0	14.3	6.35	1.65	7.0	102/303	2R2	25K
R-60B	60W	115.0	26.0	14.3	8.0	4.3	8.0	102/303	2R2	25K

\* D-Dimensions given are indicative and could exceed tolerances given depending on resistance value being wound.

PHYSICAL CONFIGURATION

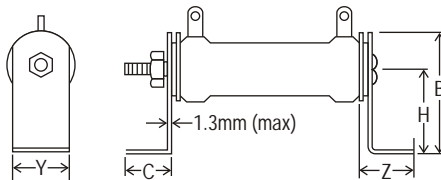


HTR TYPE	POWER RATING at 70°C	DIMENSIONS (mm)						MOUNTING HARDWARE AVAILABLE	RESISTANCE RANGE	
		L ±3	*D ±2	d ±1	W ±0.35	Id ±0.3	H [min]		min	max
R-80A	80W	130.0	26.0	14.3	6.35	1.65	7.0	102/303	2R2	35K
R-80B	80W	130.0	26.0	14.3	8.0	4.3	8.0	102/303	2R2	35K
R-100A	100W	150.0	33.2	19.1	6.35	1.65	7.0	103/303	3R3	40K
R-100B	100W	150.0	33.2	19.1	8.0	4.3	8.0	103/303	3R3	40K
R-120A	120W	165.0	33.2	19.1	6.35	1.65	7.0	103/303	3R0	47K
R-120B	120W	165.0	33.2	19.1	8.0	4.3	8.0	103/303	3R0	47K
R-140A	140W	200.0	33.2	19.1	6.35	1.65	7.0	103/303	3R3	56K
R-140B	140W	200.0	33.2	19.1	8.0	4.3	8.0	103/303	3R3	56K
R-200A	200W	250.0	33.2	19.1	6.35	1.65	7.0	103/303	4R7	68K
R-200B	200W	250.0	33.2	19.1	8.0	4.3	8.0	103/303	4R7	68K
R-300A	300W	250.0	45.0	24.0	6.35	1.65	7.0	104/304	5R6	75K
R-300B	300W	250.0	45.0	24.0	8.0	4.3	8.0	104/304	5R6	75K
R-400A	400W	330.0	45.0	24.0	6.35	1.65	7.0	104/304	10R	100K
R-400B	400W	330.0	45.0	24.0	8.0	4.3	8.0	104/304	10R	100K

\* D-Dimensions given are indicative and could exceed tolerances given depending on resistance value being wound.  
\* Resistor types suffixed with 'A' are compatible with Amp F 187 connectors or Amp 250 connectors.

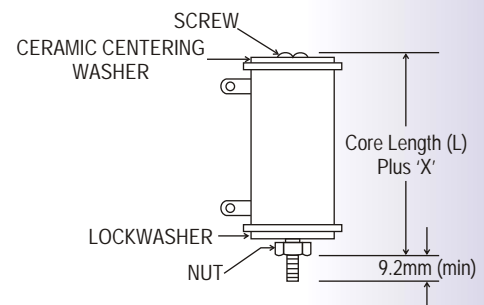
MOUNTING SPECIFICATIONS

HORIZONTAL THRU-BOLT



BRACKET TYPE	Y ±1.0mm	Z ±2mm	H ±2mm	MOUNTING SLOT ±1.0mm	C ±2mm	B ±2mm
101	12.2	21.83	25.4	5.5 x 8.5	19.05	34.92
102	19.5	24.50	32.75	5.5 x 11.11	19.50	45.5
103	31.5	30.0	35.0	7.1 x 11.11	22.22	53.98
104	48.0	31.5	56.88	7.1 x 11.11	23.22	82.0

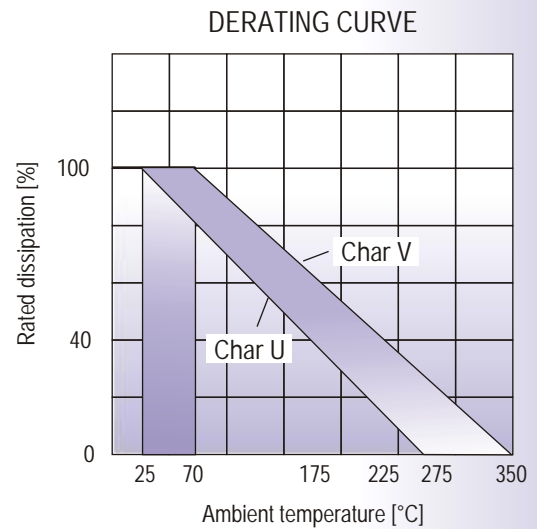
VERTICAL THRU-BOLT



BRACKET TYPE	X (APPROXIMATE) (mm)
301	11.5
303	15.0
304	16.0

ELECTRICAL AND ENVIRONMENTAL CHARACTERISTICS / DATA

Test	Performance Requirements
Resistance tolerance	$\pm 10\%$ [K]; $\pm 5\%$ [J], $\pm 2\%$ [G], $\pm 1\%$ [F]
Rated ambient temperature [ see derating curve]	at 70°C full power dissipation
Di-electric withstanding voltage	Max $R_{\pm}[1\%+R05]$
Insulation resistance	>1000 M
Temperature co-efficient	$\pm 100$ ppm/ °C [For low values TCR will be higher]
Short time overload	Max $R_{\pm}[ 2\%+R05]$
Moisture resistance	Max $R_{\pm}[ 5\%+R05]$
Load life	Max $R_{\pm} [<5\%+R05]$

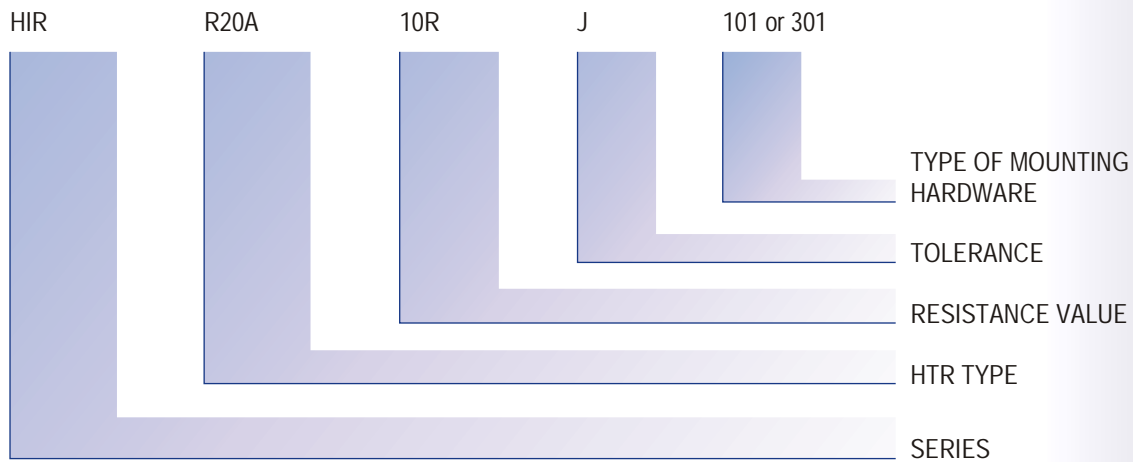


- Notes :
- 1) Resistance values below and above the shown resistance range are possible on request.
  - 2) Non-inductive types in this series are possible.
  - 3) Dimensions given are to be used as a guide only, they can be varied to a certain extent due to technical reasons. For example, larger terminals may be used for very low values.

TYPICAL APPLICATIONS

- (1) Grid resistor (2) Voltage dropping resistor (3) Bias supply resistor (4) High voltage bleeder resistor in power supplies (5) Voltage divider networks (6) Filament dropping resistor (7) Load resistor (8) Shunt resistor.

ORDERING INFORMATION



Note : In case non-inductive type is required, please pre-fix HTR type with 'N' e.g. NR-20A

The Words - "Applicable Standards" do not necessarily signify certification to that standard, however the tests mentioned are carried out on the broad based guidelines set out in these standards.