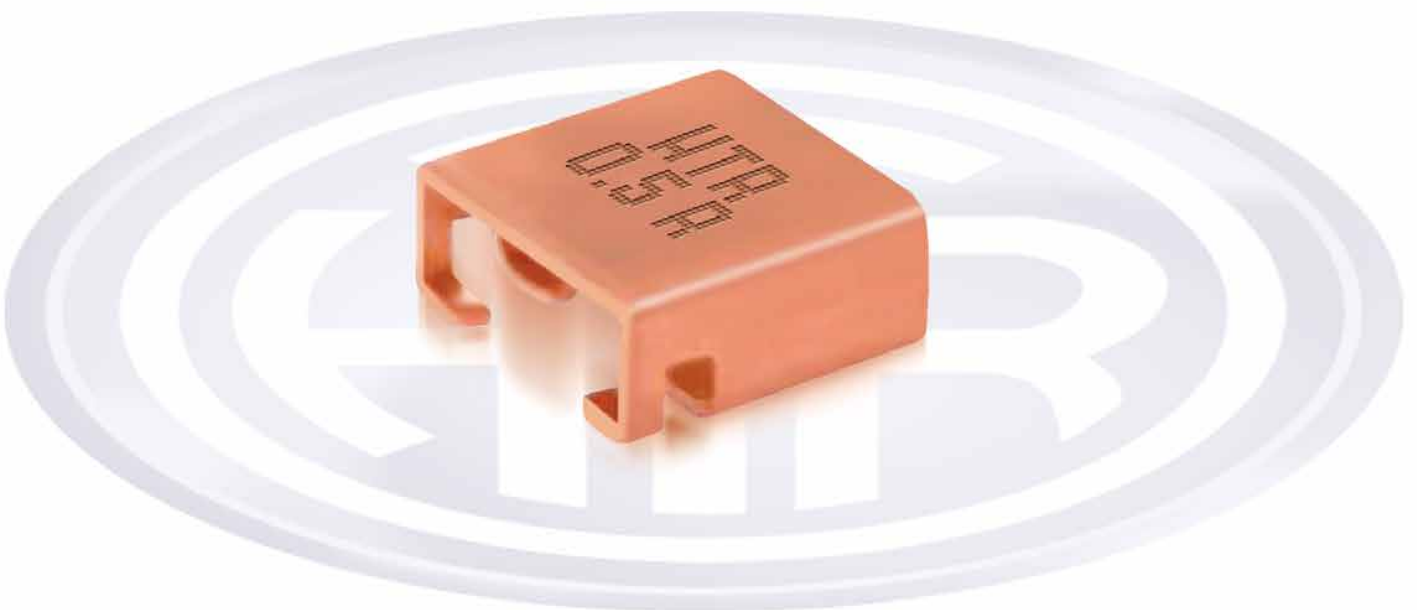




LOW OHM
POWER RESISTORS

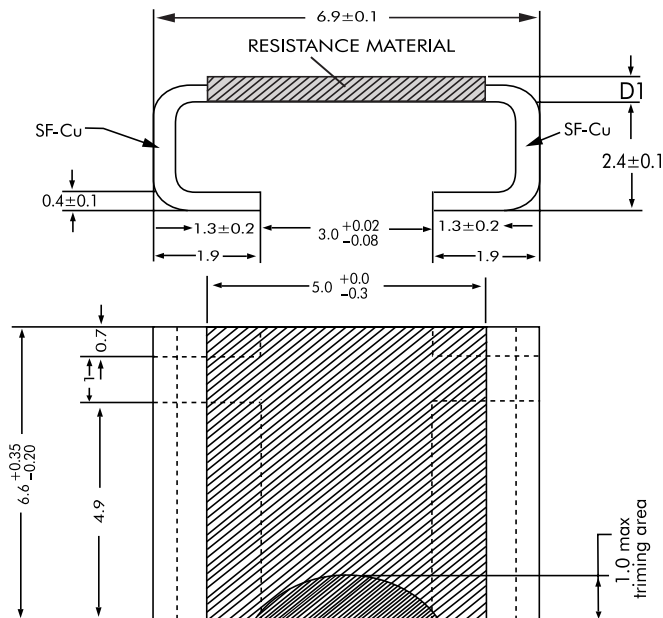
HBE SERIES

- Open frame electron beam welded punched out type.
- 2W to 5W.
- R0005 to R005.





PHYSICAL CONFIGURATION



DIMENSIONAL TABLE

SR NO.	HI-TECH PART NAME	RESISTIVE MATERIAL	D1 (MM)	TYPICAL WT. PER PC (GMS)
1	HBE5W* R0005 G	ZERANIN30	0.45 ± 0.10	0.45
2	HBE5W* R001 G	MANGNIN	0.33 ± 0.10	0.30
3	HBE5W* R002 G	SAOHM/FeCr8020	0.55 ± 0.10	0.45
4	HBE3W* R003 G	MANGNIN	0.36 ± 0.10	0.27
5	HBE2W* R005 G	MANGNIN	0.36 ± 0.10	0.27

TERMINATION

- 1) Ideal for Current sense and High Current application.
- 2) Sulfur free copper connection.
- 3) Max solder temp. upto 350°

ELECTRICAL AND ENVIRONMENTAL CHARACTERISTICS

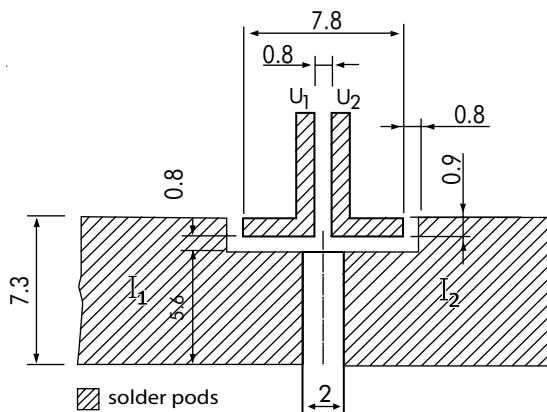
PARAMETER / PERFORMANCE TEST & TEST METHOD	PERFORMANCE REQUIREMENTS
Power Rating (Rated Ambient Temperature)	Full power dissipation at 85° C and linearly derated to zero at + 140 ° C
Insulation	Not Insulated
Resistance Tolerance	±2% (Available upto ±1%)
Temperature Range	- 55° C to +170° C
Voltage Rating / Limiting Voltage / Max. Working Voltage	$\sqrt{P \times R}$
Short time Overload (5 x Rated Power for 5 Secs.)	$\Delta R \pm [1.25 \% + R0005]$
Resistance Temperature Characteristics	<100 ppm/°K [depending on resistance value]
Damp Heat (Steady State) (40°C at 93 % R.H. for 1000 Hrs. – no load applied)	$\Delta R \pm [0.5 \% + R0005]$ – Average
Endurance – Load Life [70°C with limiting voltage – 1.5 hours on / 0.5 hours off for 1000 hours]	$\Delta R \pm [\leq 2.75 \% + R0005]$ – Average

MECHANICAL SPECIFICATIONS

PARAMETER / PERFORMANCE TEST & TEST METHOD	PERFORMANCE REQUIREMENTS
Resistance to Soldering heat - (350° for 30 Secs)	$\Delta R \pm [0.2 \% + R0005]$ – Typical
Solderability (As per IEC pub. 60068-2-20)	Must meet the requirements laid down



RECOMMENDED PCB - LAYOUT



PRINTING / MARKING

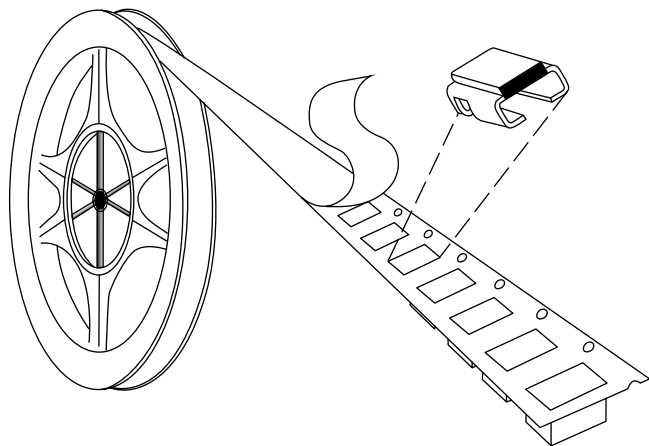
Marking in milliohms.

Eg. For HBE5W* R0005 \pm 2% marking will be HTR 0.5

A. PACKAGING

Resistors shall be packed in sealed plastic packets with silica gel pouch placed in small cardboard cartons (Type 'I' Box) of approximate size 70mmx70mmx70mm - 500pcs. & such 4 Boxes packed in (Type 'A' Box) of approximate size 200mmx150mmx70mm & 8 Boxes in (Type 'B' Box) of approximate size 295mmx140mmx80mm. & such 36 Boxes of Type 'I' or 6 Boxes of Type 'A' packed in Master Carton of approximate size 320mmx245mmx245mm.

B. TAPE & REEL PACKING



SPECIFICATION	TAPEWIDTH	PARTS PER REEL
EIA-481-D	16mm	1400 pcs

Storage Condition (Packed) : Temp 25°C to 35°C, Humidity 30 to 80% RH, Shelf life-6 months.

Floor Life (Unpacked) : Temp 25°C to 35°C, Humidity 30 to 80% RH, Flore life-15 days.