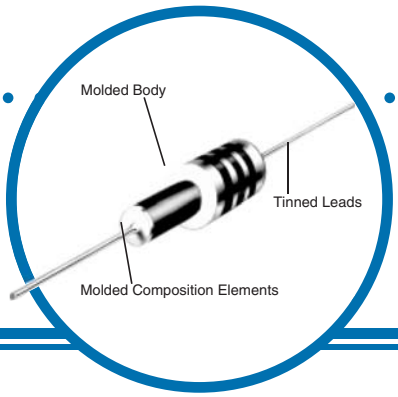
Carbon Composition Resistor



IBT Series

- Meets performance standards of EIA RS-172
- Hot molded processw for product uniformity
- Ideal for pulse-loaded handling

Electrical Data

Tested Per MIL-STD-202			
		IBT 1/4	**IBT 1/2**
Power Rating **Determined by load life test 100% load @ 70°C ambient**		1/4W	1/2W
Rated Continuous Working Voltage (RCWV)		P x R or 250 volts whichever is less	P x R or 350 volts whichever is less
Maximum Ambient Temperature **Resistors derated to zero load at this temperature**		±130°C	±130°C
Nominal Resistance Range		1Ω - 5.6 megΩ	1Ω - 20 megΩ
Standard Resistance Tolerances		±5%, ±10%	±5%, ±10%
Dielectric Withstand Voltage **Atmospheric Pressure** **Barometric pressure 3.4" Hg 115 millibars**		 500V 325V	 700V 450V
Insulation Resistance	**(min.)**	10,000 meg	10,000 meg
Voltage Coefficient of Resistance **% resistance change/volt at 10% and** **100% RCWV for values 1K to 20 meg**	 **(min.)** **(max.)**	 -.005% -.032%	 -.005% -.032%
Short-Time Overload **Apply 2.5 times RCWV at maximum** **Indicated for 5 seconds**	**Maximum Voltage** **Typical resistance change** **Maximum resistance change**	700V ±0.5% ±2%	700V ±0.5% ±2%

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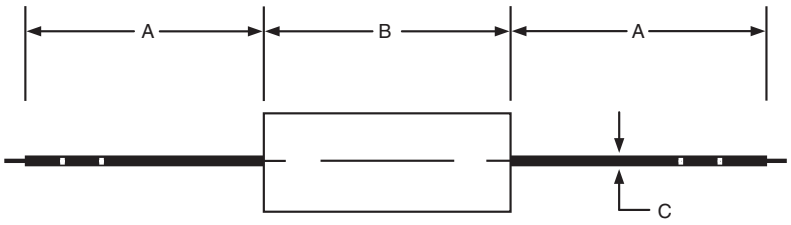
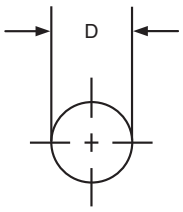
Resistance Temperature Characteristics

	Resistance Range	-55°C	-105°C
Maximum percent resistance change from room temperature (+25°C) value	under 1K	+2.0 to +5.0	-4.0 to -2.0
	1K to 9.1 K	+5.0 to +9.0	-5.0 to -3.0
	10K to 91K	+8.0 to +11.0	-7.0 to -5.0
	100K to 910K	+10.0 to +14.0	-9.0 to -7.0
	1 meg to 10 meg	13.0 to +20.0	-14.0 to -9.0

Physical Data





PACKAGING:
5000/reel
1000/bulk

Dimensions (Inches and (mm))

IRC Type	A	B	C	D
IBT 1/4	1.18 ± 0.12 (30.00 ± 3.0)	0.248 ± 0.028 (6.3 ± 0.70)	0.024 ± 0.002 (0.60 ± 0.05)	0.094 ± 0.004 (2.40 ± 0.10)
IBT 1/2	1.1 ± 0.12 (28.00 ± 3.0)	0.374 ± 0.032 / -0.028 (9.50 + 0.80 / -0.70)	0.0275 ± 0.002 (0.70 ± 0.05)	0.142 ± 0.008 (3.6 ± 0.20)