

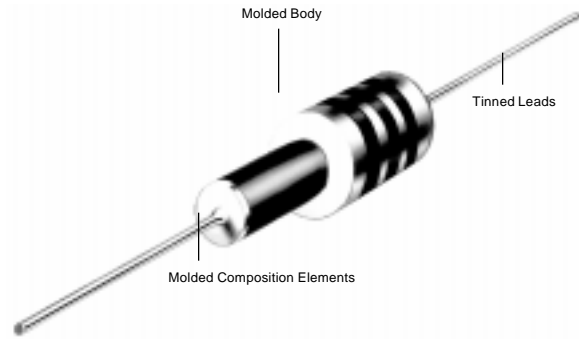
# CARBON COMPOSITION RESISTOR

ISO-9001 Registered



## IBT SERIES

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



### PERFORMANCE CHARACTERISTICS (TESTED PER MIL-STD-202):

ELECTRICAL	IBT 1/4	IBT 1/2
<b>POWER RATING</b> Determined by load life test 100% load at 70°C ambient	1/4W	1/2W
<b>RATED CONTINUOUS WORKING VOLTAGE (RCWV)</b>	$\sqrt{P \times R}$ or 250 volts whichever is less	$\sqrt{P \times R}$ or 350 volts whichever is less
<b>MAXIMUM AMBIENT TEMPERATURE</b> Resistors derated to zero load at this temperature	± 130°C	± 130°C
<b>NOMINAL RESISTANCE RANGE</b>	1Ω - 5.6 megΩ	1Ω-20 megΩ
<b>Standard Resistance Tolerances</b>	±5%, ±10%	±5%, ±10%
<b>DIELECTRIC WITHSTAND VOLTAGE</b>		
Atmospheric Pressure	500V	700V
Barometric pressure 3.4" Hg 115 millibars	325V	450V
<b>INSULATION RESISTANCE (min.)</b>	10,000 meg	10,000 meg
<b>VOLTAGE COEFFICIENT OF RESISTANCE</b>		
% resistance change/volt at 10% and 100% RCWV for values 1K to 20meg	(min) -0.005% (max) -0.032%	-0.005% -0.032%
<b>SHORT-TIME OVERLOAD</b>		
Apply 2.5 times RCWV at maximum	700V	700V
Indicated for 5 seconds	Typical resistance change ±0.5% Maximum resistance change ±2%	Typical resistance change ±0.5% Maximum resistance change ±2%

### 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 9.1K	+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

### DIMENSIONS (Inches and (mm)):

IRC Type	A	B	C	D
<b>IBT 1/4</b>	1.102±0.032 (28.00±0.80)	0.248±0.028 (6.3±0.70)	0.024±0.002 (0.60±0.05)	0.094±0.004 (2.40±0.10)
<b>IBT 1/2</b>	1.024±0.032 (26.00±0.80)	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)

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