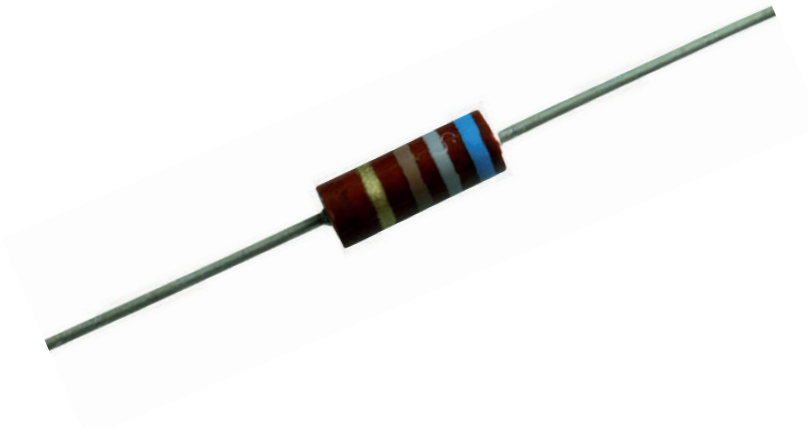


IBT Series

Features

- Meets performance standards of EIA RS-172
- Hot molded process for product uniformity
- Ideal for pulse-loaded handling
- Non-inductive design



OBSOLETE

 All parts are Pb-free and comply with EU Directive 2011/65/EU amended by (EU) 2015/863 (RoHS3)

Electrical Data

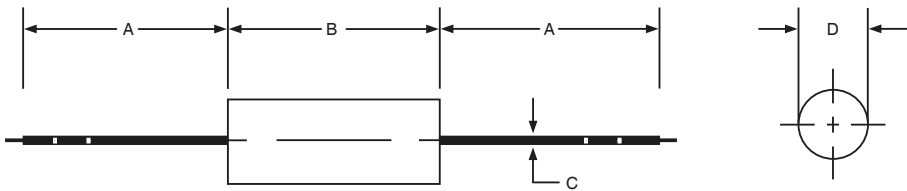
Tested Per MIL-STD-202		
	IBT 1/4	IBT 1/2
Equivalent Allen Bradley reference	RC07	RC20
Power Rating Determined by load life test 100% load @ 70°C ambient	1/4W	1/2W
Rated Continuous Working Voltage (RCWV)	P x R or 250 volts whichever is less	P x R or 350 volts whichever is less
Maximum Ambient Temperature Resistors derated to zero load at this temperature	+130°C	
Nominal Resistance Range	1Ω - 5.6 megΩ	1Ω - 20 megΩ
Standard Resistance Tolerances	10%	
Dielectric Withstand Voltage		
Atmospheric Pressure	500V	700V
Barometric pressure 3.4" Hg 115 millibars	325V	450V
Insulation Resistance (min.)	10,000 meg	10,000 meg
Voltage Coefficient of Resistance		
% resistance change/volt at 10% and (min.)	-.005%	-.005%
100% RCWV for values 1K to 20 meg (max.)	-.032%	-.032%
Short-Time Overload	700V	700V
Apply 2.5 times RCWV at maximum	±0.5%	±0.5%
Indicated for 5 seconds	±2%	±2%
Maximum Voltage		
Typical resistance change		
Maximum resistance change		

General Note
TT Electronics reserves the right to make changes in product specification without notice or liability.
All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

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

<div></div>				
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)

Application notes - Lead forming within 2mm of the body and soldering within 4mm of the body are not recommended. Owing to the hygroscopic nature of carbon composition technology, aqueous washing is not recommended.

IBT Series **OBSOLETE**

Ordering Procedure

This product has two valid part numbers:

European (Welwyn) Part Number: IBT1/2-20KKI (IBT1/2, 20 kilohms ±10%, Pb-free)

I	B	T	1	/	2	-	2	0	K	K	I
1						2		3	4		

1	2	3	4	
Type	Value	Tolerance	Packing & Termination Finish	
IBT1/4	3/4 characters	K = ±10%	I = Tape Pack & Pb-free	
IBT1/2	R = ohms K = kilohms M = megohms		All sizes	Taped, 5000/reel

USA (IRC) Part Number: IBT1/2203KLFLTR (IBT1/2, 20 kilohms ±10%, Pb-free)

I	B	T	1	/	2	2	0	3	K	L	F	L	T	R
1						2		3	4		5			

1	2	3	4	5
Type	Value	Tolerance	Termination Finish	Packing
IBT1/4	2 digits + multiplier	K = ±10%	LF = Pb-free	LTR = Lead Tape Omit for Bulk Pack
IBT1/2	R = ohms for values <10 ohms			All sizes 5000/reel 1000/bulk