Carbon Composition Resistor

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 meg Ω	1Ω - 20 megΩ	
Standard Resistance Tolerances	10%		
Dielectric Withstand Voltage Atmospheric Pressure Barometric pressure 3.4" Hg 115 millibars	500V 700V 325V 450V		
Insulation Resistance (min.)	10,000 meg	10,000 meg	
Voltage Coefficient of Resistance % resistance change/volt at 10% and (min.) 100% RCWV for values 1K to 20 meg (max.)	005% 032%	005% 032%	
Short-Time Overload Maximum Voltage Apply 2.5 times RCWV at maximum Typical resistance change	700V ±0.5%	700V ±0.5%	
Indicated for 5 seconds Maximum resistance change	±2%	±2%	



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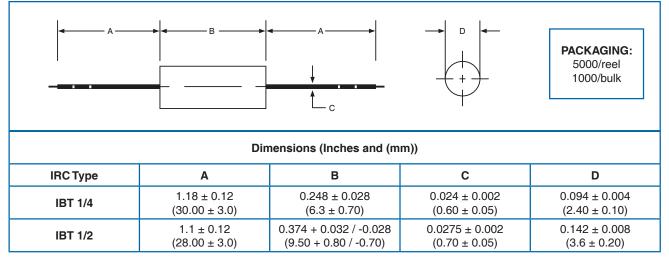


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Resistance Temperature Characteristics

	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



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

General Note

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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
T				
Туре	Value	Tolerance	Packing &	Termination Finish
I ype IBT1/4	Value 3/4 characters	Tolerance K = ±10%		Termination Finish e Pack & Pb-free

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

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