Resistors

Carbon Composition Resistor



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

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

Electrical Data

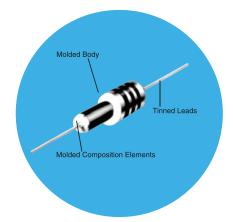
Tested Per MIL-STD-202				
	IBT 1/4	IBT 1/2		
Equivalent Allen Bradley reference	RC07	RC20		
Power Rating Determined by load life test 100% load @ 70°C ambient	1/4W	1/2W		
Rated Continuous Working Voltage (RCWV)	P x R or 250 volts whichever is less	P x R or 350 volts whichever is less		
Maximum Ambient 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 <100k		≥100K: 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(min.)100% RCWV for values 1K to 20 meg(max.)	005% 032%	005% 032%		
Short-Time OverloadMaximum VoltageApply 2.5 times RCWV at maximumTypical resistance changeIndicated for 5 secondsMaximum resistance change	700V ±0.5% ±2%	700V ±0.5% ±2%		

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.

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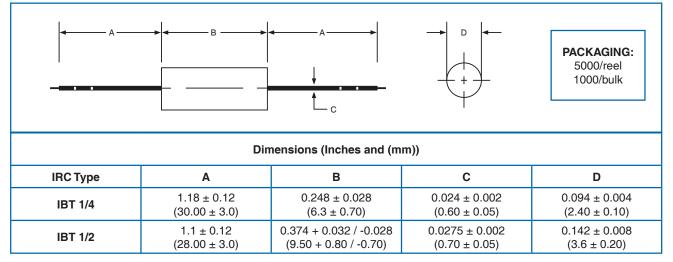
IBT Series



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.

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www.ttelectronics.com/resistors





Ordering Procedure

This product has two valid part numbers:

European (Welwyn) Part Number: IBT1/2-20KJI (IBT1/2, 20 kilohms ±5%, Pb-free)

I B T 1 / 2 - 2 0 K J 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 J = ±5%		Termination Finish e Pack & Pb-free	

USA (IRC) Part Number: IBT1/2203JLFLTR (IBT1/2, 20 kilohms ±5%, Pb-free)

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

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

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RC1/4272KB

OF110JE-TR
3-1625875-1
CF18JT910R
RCC050
10R JB
RCC025
2R7 J B
CBT50J6K8
CBT50K680R
CFR01SJ0100A10

CFR01SJ0101A10
CFR01SJ0102A10
CFR01SJ0105A10
CFR01SJ018JA10
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CFR01SJ0331A10
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CFR01SJ0470A10
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