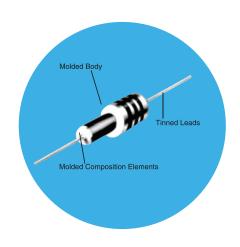
Resistors



Carbon Composition Resistor

IBT Series

- 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 meg Ω		
Standard Resistance Tolerances	<100K: 5%, 10%	, ≥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 Overload Maximum Voltage Apply 2.5 times RCWV at maximum Typical resistance change Indicated for 5 seconds Maximum resistance change	700V ±0.5% ±2%	700V ±0.5% ±2%		

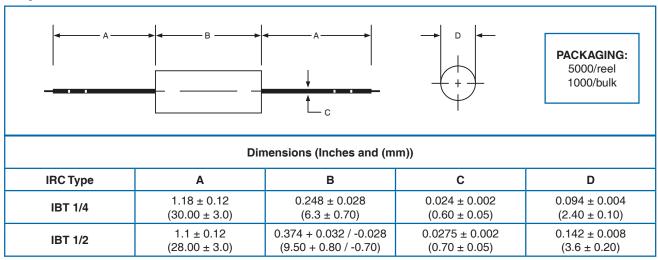


IBT Series

Resistance Temperature Characteristics

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

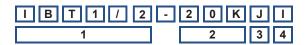


IBT Series

Ordering Procedure

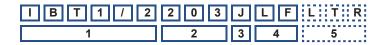
This product has two valid part numbers:

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



1	2	3		4	
Type	Value	Tolerance	Packing &	Termination Finish	
IBT1/4	3/4 characters	J = ±5%	I = Tape Pack & Pb-free		
IBT1/2	R = ohms	K = ±10%	All sizes	Taped, 5000/reel	
	K = kilohms M = megohms				

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



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 ai-aa	5000/reel
,				All sizes	1000/bulk

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Other Similar products are found below:

OE5655 OG5625 OB1025 OE1855 OG2005 OC2255 OH6205 QWCC339 CF1/4W-18±5% T52 RC0S2CA270RKE RC1/4272KB
OF110JE-TR 3-1625875-1 CF18JT910R RCC050 10R JB RCC025 2R7 J B CBT50J6K8 CBT50K680R CF1/4W-10M±5%

CFR01SJ0100A10 CFR01SJ0101A10 CFR01SJ0102A10 CFR01SJ0104A10 CFR01SJ0105A10 CFR01SJ018JA10 CFR01SJ0202A10
CFR01SJ0203A10 CFR01SJ0274A10 CFR01SJ0304A10 CFR01SJ0331A10 CFR01SJ0334A10 CFR01SJ0361A10 CFR01SJ0390A10
CFR01SJ0393A10 CFR01SJ0470A10 CFR01SJ051JA10 CFR01SJ0560A10 CFR01SJ0561A10 CFR01SJ0683A10 CFR01SJ0820A10
CFR02SJ0101A10 CFR02SJ0103A10 CFR02SJ0120AA0 CFR02SJ0121AA0 CFR02SJ0151AA0 CFR02SJ0154AA0 CFR02SJ0220A10
CFR02SJ0224A10 CFR02SJ022JA10 CFR02SJ0303A10