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

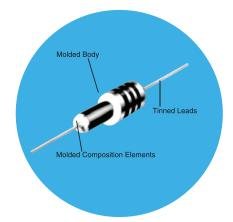
| Tested Per MIL-STD-202 | | | | |
|--|--------------------------------------|--------------------------------------|--|--|
| | IBT 1/4 | IBT 1/2 | | |
| Equivalent Allen Bradley reference | RC07 | RC20 | | |
| Power Rating Determined by load life test 100% load @ 70°C ambient | 1/4W | 1/2W | | |
| Rated 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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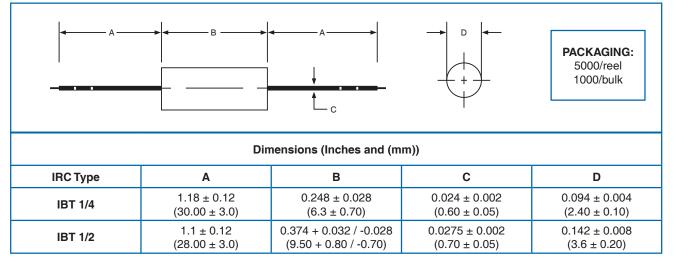
IBT Series



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
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CF18JT910R
RCC050
10R JB
RCC025
2R7 J B
CBT50J6K8
CBT50K680R
CFR01SJ0100A10

CFR01SJ0101A10
CFR01SJ0102A10
CFR01SJ0105A10
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CFR01SJ0820A10
CFR02SJ0100A10
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