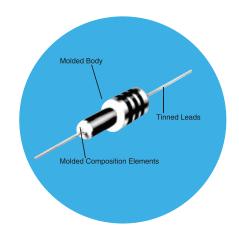
Resistors

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 (RoHS2)

Electrical Data

| Tested Per MIL-STD-202 | | | | |
|---|---|---|--|--|
| | IBT 1/4 | IBT 1/2 | | |
| 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 | ±130°C | | |
| Nominal Resistance Range | 1 Ω - 5.6 meg Ω | 1 Ω - 20 meg Ω | | |
| Standard Resistance Tolerances | ±5%, ±10% | ±5%, ±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% | | |

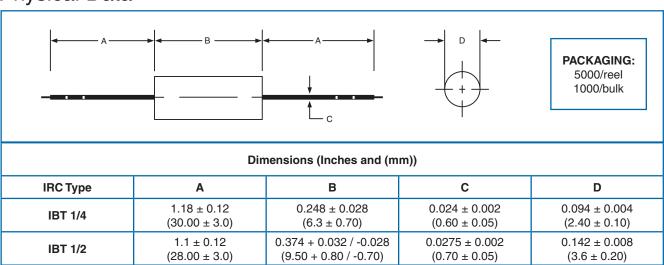
IBT Series



Resistance Temperature Characteristics

| Resistance Range | -55°C | -105°C |
|------------------|---|--|
| 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 |
| | under 1K 1K to 9.1 K 10K to 91K 100K to 910K | under 1K +2.0 to +5.0 1K to 9.1 K +5.0 to +9.0 10K to 91K +8.0 to +11.0 100K to 910K +10.0 to +14.0 |

Physical Data



Carbon Composition Resistor

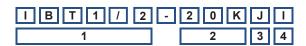




Ordering Procedure

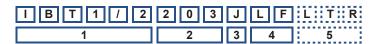
This product has two valid part numbers:

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 | $J = \pm 5\%$ | I = Tape Pack & Pb-free | | |
| IBT1/2 | | 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 | |
|--------|-----------------------|---------------|--------------------|--------------------|-----------|
| Type | Value | Tolerance | Termination Finish | Packing | |
| IBT1/4 | 2 digits + multiplier | $J = \pm 5\%$ | LF = Pb-free | LTR = Lead Tape | |
| IBT1/2 | R = ohms for values | K = ±10% | | Omit for Bulk Pack | |
| | <10 ohms | | | All sizes | 5000/reel |
| , | | • | | | 1000/bulk |

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Carbon Composition Resistors category:

Click to view products by TT Electronics manufacturer:

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 CBT50J6K8 CF1/4W-10M±5%
CFR01SJ0100A10 CFR01SJ0101A10 CFR01SJ0102A10 CFR01SJ018JA10 CFR01SJ0202A10 CFR01SJ0274A10 CFR01SJ0304A10
CFR01SJ0331A10 CFR01SJ0361A10 CFR01SJ0390A10 CFR01SJ0393A10 CFR01SJ0470A10 CFR01SJ051JA10 CFR01SJ0560A10
CFR01SJ0683A10 CFR01SJ0820A10 CFR02SJ0103A10 CFR02SJ0151AA0 CFR02SJ0154AA0 CFR02SJ0205A10 CFR02SJ0220A10
CFR02SJ0224A10 CFR02SJ022JA10 CFR02SJ0303A10 CFR02SJ0333A10 CFR02SJ0393AA0 CFR02SJ0431A10 CFR02SJ0681A10
CFR03SJ0100AA0 CFR03SJ0101AA0 CFR03SJ0103AA0