ATC AT Series 0603 RF/Microwave Attenuator

- Thin Film Design
- Power Rating: 1 watt
- Frequency Response +/- 0.5 dB
- Characterized to 20 GHz
- CPW and Microstrip
 Applications

- EIA 0603 SMT
- Highest Power in Class
- ALN construction
- Balanced PI design
- Non-Magnetic
- RoHs compliant

ATC's new RF/Microwave SMT Attenuator Series (AT) is manufactured with the highest quality materials for reliable and repeatable performance. These devices are constructed with Aluminum Nitride (AIN) and are available in a standard EIA 0603 case size. The AT Series exhibits excellent performance characteristics for the most demanding RF/ Microwave applications.

The AT provides virtually flat loss over a broad frequency spectrum and is ideal where low noise, low inductance and low parasitic capacitance is required. Thin film metallization provides for very stable characteristics over temperature and time. Its balanced PI design provides even current distribution and accurate attenuation characteristics from DC to 20 GHz. It is designed to meet a wide range of RF and microwave large and small signal level applications. The AT is ideal for impedance matching, input padding, signal level tuning, and many other critical RF/Microwave applications. The AT is rated highest power in class and is suitable for microstrip and CPW applications.

The non-magnetic termination is available providing a range of attachment options such as eutectic die-bonding, conductive epoxies, and soldering. The AT is fully compatible with high speed automated pick-and-place processing.

Typical applications: Telecommunications, Satellite Communications, Cellular Base Stations, Microwave Radio, ISM, RF/Microwave Power, Military /Aerospace, Test and Measurement.

Functional applications: Impedance Matching, Input Padding, Signal Level Tuning, Signal Conditioning.

Note: Consult Factory for other attenuation values, termination styles and case sizes.

sales@atceramics.com



ENVIRONMENTAL SPECIFICATIONS

OPERATING TEMPERATURE: -55°C to +150°C 100% inspection Per MIL-STD-883

ELECTRICAL AND MECHANICAL SPECIFICATIONS

NOMINAL IMPEDANCE: 50 ohms

FREQUENCY RANGE: DC to 20 GHz

VALUES AVAILABLE: 3dB, 6dB, 10dB

INPUT POWER CW: 1W: 3dB, 6dB 0.75W: 10dB

VSWR: 1.25:1 typical

ATTENUATION ACCURACY (dB):

1 to 9 dB: ±0.50 10 dB: ±0.75

SUBSTRATE MATERIAL: AIN

RESISTORS: Tantalum Nitride

TERMINAL: Thin Film metal stack, Ni/Au

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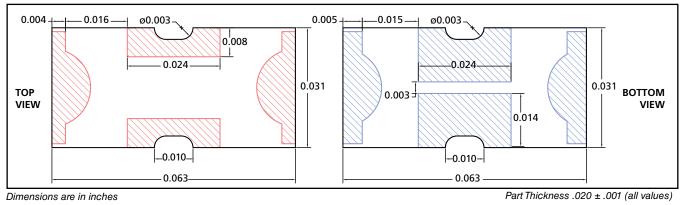
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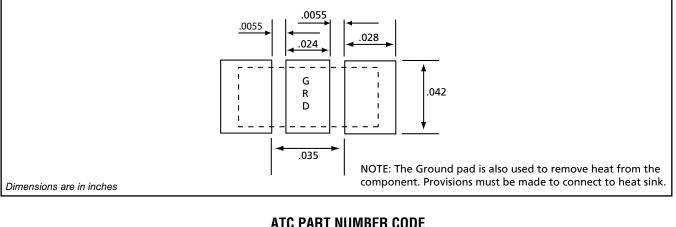
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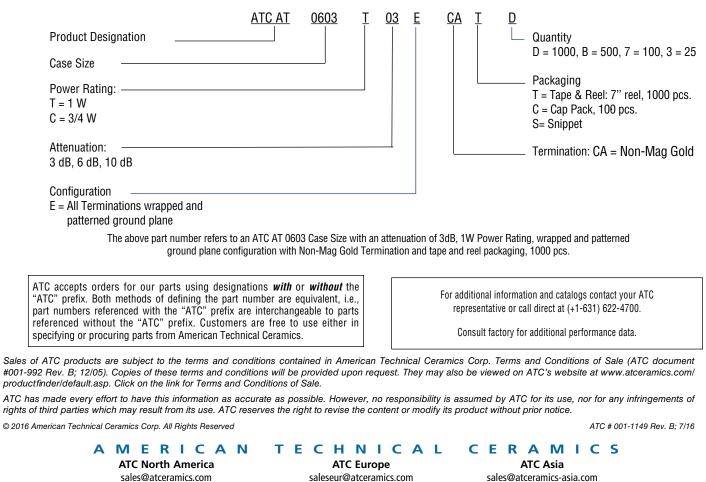
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Mechanical Configurations





ATC PART NUMBER CODE



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