

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 (AlN) 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.



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

VSWR: 1.25:1 typical

ATTENUATION ACCURACY (dB):

1 to 9 dB: ±0.50

10 dB: ±0.75

SUBSTRATE MATERIAL: AlN

RESISTORS: Tantalum Nitride

TERMINAL: Thin Film metal stack, Ni/Au



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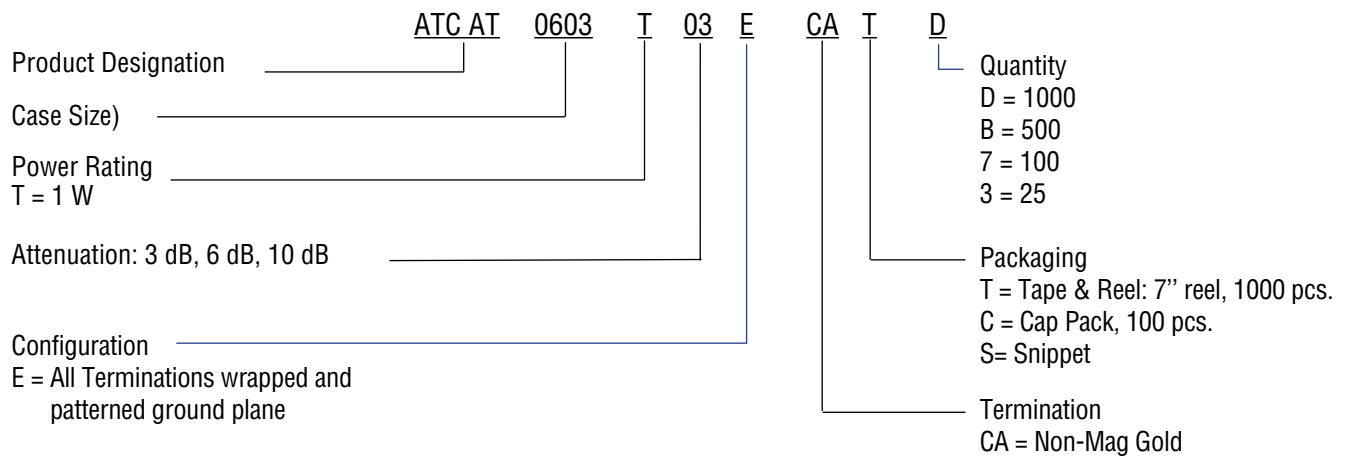
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Mechanical Configurations



ATC PART NUMBER CODE



The above part number refers to an ATC AT 0603 Case Size with an attenuation of 3dB, 1W Power Rating, wrapped and patterned ground plane configuration with Non-Mag Gold Termination and tape and reel packaging, 1000 pcs.

ATC accepts orders for our parts using designations **with** or **without** the "ATC" prefix. Both methods of defining the part number are equivalent, i.e., part numbers referenced with the "ATC" prefix are interchangeable to parts referenced without the "ATC" prefix. Customers are free to use either in specifying or procuring parts from American Technical Ceramics.

For additional information and catalogs contact your ATC representative or call direct at (+1-631) 622-4700.

Consult factory for additional performance data.

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
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- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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