ATC 504L Series UBR™ Ultra-Broadband Resistors

Features:

• Frequency Range: DC to 20 GHz

• EIA 0402 Case Size

Power Rating: 125 mW

• Operating Temperature:

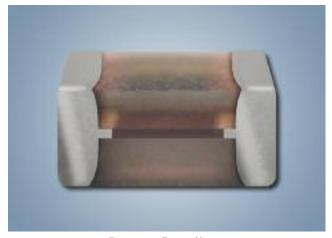
-40°C to +125°C

 100% Laser Trimming for Tight Tolerances

RoHS Compliant

ATC // AVX Thin Film Technologies is pleased to introduce the 504L Series next generation of surface mount Ultra-Broadband Resistors. This product was designed with our proprietary Glass Sandwich Flexiterm® Technology, (GSFT). The Flexiterm® is a surface mountable automotive qualified termination that adds an extra margin against damage due to flexture during installation.

The 504L Series has been designed with high quality selected materials that yield excellent performance. This product is ideal for use in Optical Transceiver Modules or any application requiring excellent ultrabroadband performance.



Patent Pending

Applications:

- Optical Transceiver Modules
- Broadband Receiver
- TOSA / ROSA
- Wideband Test Equipment
- Low Noise Amplifier
- MMIC Amplifiers
- Mixers
- Directional Couplers
- Ultra-Broadband Splitters and Combiners

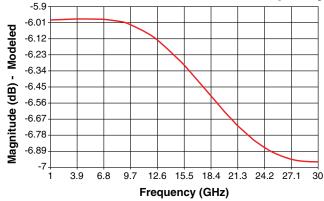
Markets:

- Opto-electronics
- Automotive
- Telecom
- Broadband Jamming for EW
- Satellite Communication

Specifications

Resistor	Detail
Outline	EIA 0402
Package	Glass wafer sandwich
Standard Resistance Values (Ω)	25Ω, 50Ω, 100Ω, 200Ω
Resistance Value Range	From 25Ω to 400Ω
Termination	Flexiterm® (Ag/Epoxy), NiSn plated
Power Rating	125 mW
Operating Temperature Range	-40°C to +125°C
Tolerance	1%





Modeled with HFSS using Rogers 3003 substrate, with a thickness of 10 mils and a line width of 24 mils, representing data for 100 Ohms.



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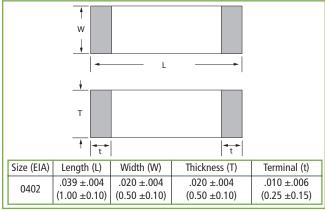
ATC North America sales@atceramics.com



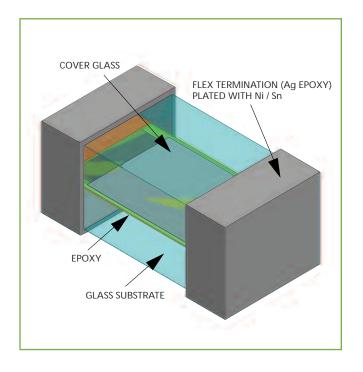
Resistor Material Properties

Resistor Material (TaN): Properties	
Sheet Resistance (Ohms per Square)	TCR ppm/°C
30 to 100	-50 to -150

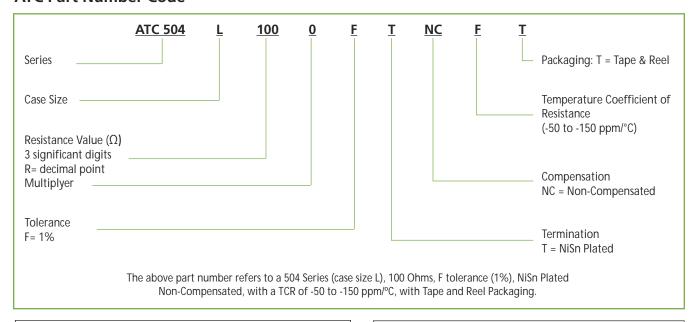
Mechanical Dimensions



inches (mm)



ATC Part Number Code



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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