ATC ULTRA-BROADBAND RESISTIVE PRODUCTS

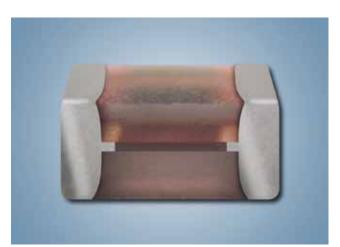
ATC 504L Series UBR™ **Ultra-Broadband Resistors**

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

Markets:

Automotive

Telecom

• Opto-electronics

• Broadband Jamming for EW

• Satellite Communication

Applications:

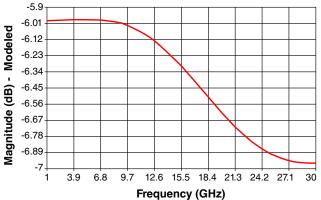
- Optical Transceiver Modules
- Broadband Receiver
- TOSA / ROSA
- Wideband Test Equipment
- Low Noise Amplifier
- MMIC Amplifiers
- Mixers
- Directional Couplers
- Ultra-Broadband Splitters and Combiners

Specifications

Resistor	Detail
Outline	EIA 0402
Package	Glass wafer sandwich
Standard Resistance Values (Ω)	25Ω, 50Ω, 100Ω, 200Ω
Resistance Value Range	From 25 Ω to 400 Ω
Termination	Flexiterm® (Ag/Epoxy), NiSn plated
Power Rating	125 mW
Operating Temperature Range	-40°C to +125°C
Tolerance	1%
Cold Storage	-65°C

AMERICAN

ATC 504L Series Flatness vs. Frequency



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.

TECHNICAL CERAMICS ATC // AVX Thin Film Technologies **ATC North America** sales@atceramics.com

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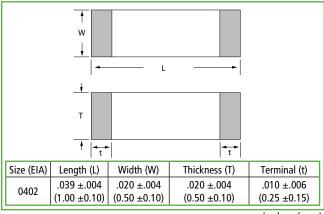
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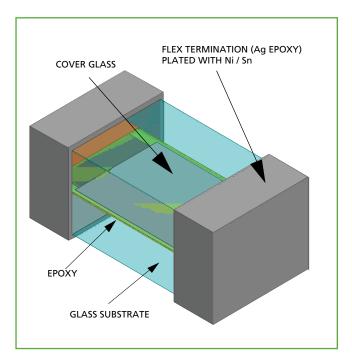
Resistor Material Properties

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

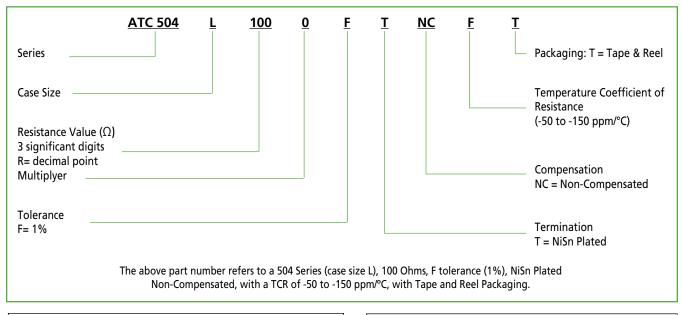
Mechanical Dimensions



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.

Sales of ATC products are subject to the terms and conditions contained in American Technical Ceramics Corp. Terms and Conditions of Sale (ATC document #001-992 Rev. A 10/03). Copies of these terms and conditions will be provided upon request. They may also be viewed on ATC's website at www.atceramics.com/productfinder/default.asp. Click on the link for Terms and Conditions of Sale. ATC has made every effort to have this information as accurate as possible. However, no responsibility is assumed by ATC for its use, nor for any infringements of rights of third parties which may result from its use. ATC reserves the right to revise the content or modify its product line without prior notice.



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