ATC 506WLS SERIES UBL SMT INDUCTORS

ATC 506WLSN10R7KT150T Ultra-Broadband SMT Inductor

Features:

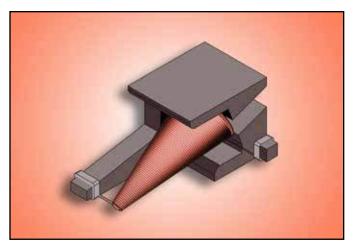
- Inductance: 10.7 µH
- Operating Frequency: 400 KHz (-3 dB roll-off) through 40+ GHz, typ.
- Insertion Loss (shunt mounted): <0.4 dB, typ.
- Return Loss (shunt mounted): >17 dB, typ.
- Operating Temperature Range: -55°C to +125°C
- Lead-Free, RoHS Compliant Terminations

ATC, the industry leader, is introducing the new 506WLS Series High Frequency Ultra-Broadband Inductor (UBL). This unique component provides low insertion loss and an excellent match over multiple octaves of frequency spectrum.

The 506WLS is ideal for ultra-broadband DC decoupling networks and bias tee applications in optical communications systems and equipment using high-speed digital logic.

Electrical Specifications:

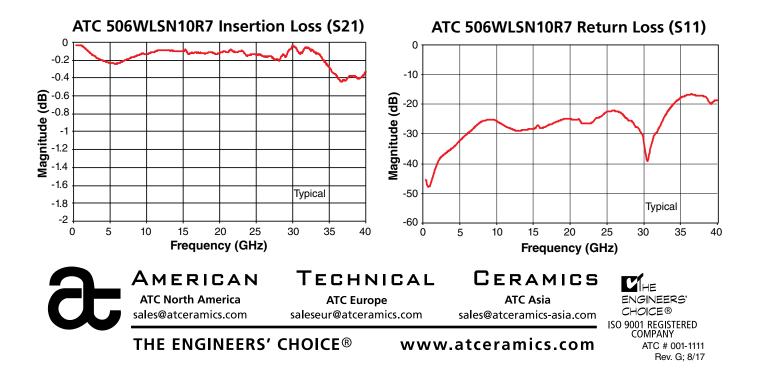
- Inductance: 10.7 µH ±10%*
- Rated DC Current (I_{DC} max.): 150 mA**
- DC Resistance (R_{DC} typ.): 7.10 Ω , typ. at +20°C, 10 mA current.



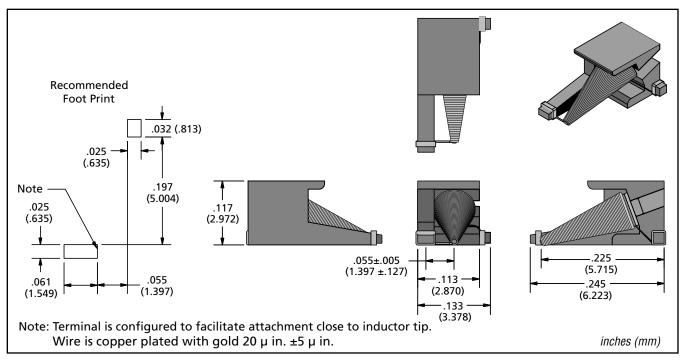
New Design

Advantages:

- Ultra-Broadband Performance
- Ultra-Low Insertion Loss
- Flat Frequency Response
- Excellent Return Loss Through 40 GHz
- Unit-to-Unit Performance Repeatability
- Rugged Powdered Iron Core
- *Inductance: measured at 1 MHz, 0.1 Vrms, 0 mA dc with HP4291A impedance analyzer
- **Current Rating: based on a 100 °C temperature rise from a 25°C ambient.



Outline Dimensions

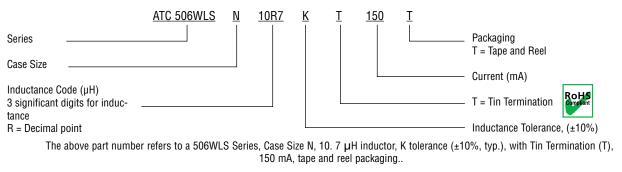


Mechanical Configurations

Size	Length (L)	Width (W)	Height (H)	Cu Wire Size (AWG)	Number of Turns
Ν	0.245 (6.223)	0.133 (3.378)	0.117 (2.972)	47	110
I had a second state of the second					

Unless noted otherwise, all dimensions are held to ±0.10 (.254)

ATC PART NUMBER CODE



ATC accepts orders for our parts using designations with or without the "ATC" prefix.

AMERICAN

ATC North America

sales@atceramics.com

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). 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.

© 2010 American Technical Ceramics Corp. All Rights Reserved.

ATC # 001-1111 Rev. G; 8/17

TECHNICAL ATC Europe

CERAMICS ATC Asia

sales@atceramics-asia.com



saleseur@atceramics.com

www.atceramics.com

THE ENGINEERS' CHOICE®

inches (mm)