

ATC 506WLSN10R7KT150T Ultra-Broadband SMT Inductor

Features:

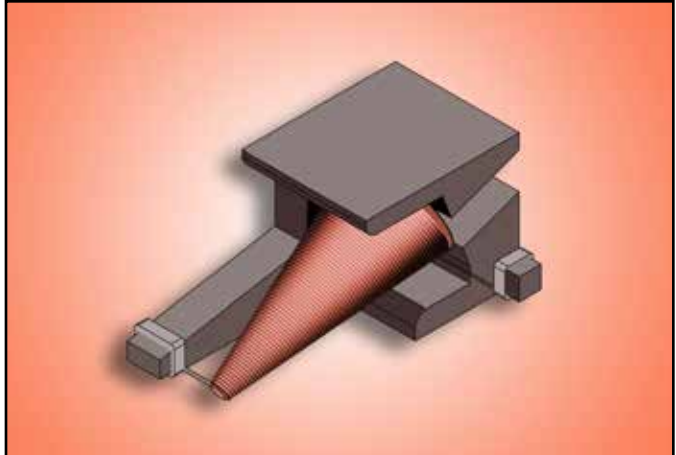
- Inductance: 10.7 μ H
- Operating Frequency: 400 KHz (-3 dB roll-off) through 40+ GHz, typ.
- Insertion Loss (shunt mounted): <0.4 dB, typ.
- Return Loss (shunt mounted): >17 dB, typ.
- Operating Temperature Range: -55°C to +125°C
- Lead-Free, RoHS Compliant Terminations

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 μ H \pm 10%*
- Rated DC Current (I_{DC} max.): 150 mA**
- DC Resistance (R_{DC} typ.): 7.10 Ω , typ. at +20°C, 10 mA current.



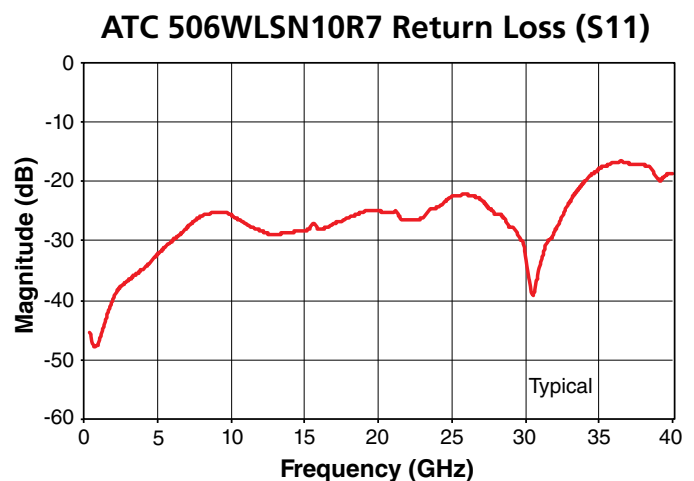
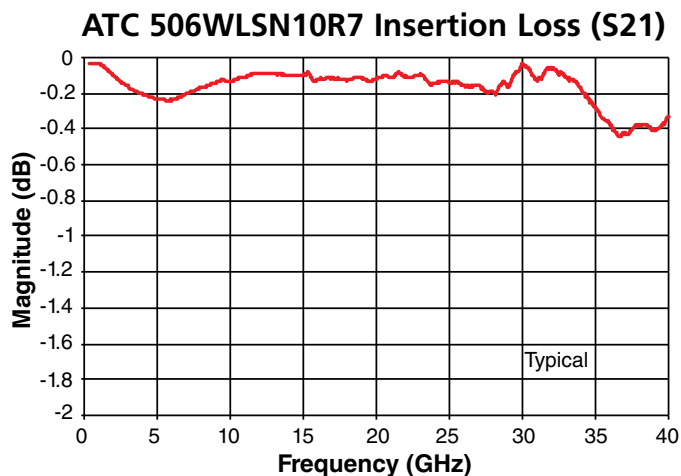
New Design

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.



AMERICAN

ATC North America
sales@atceramics.com

TECHNICAL

ATC Europe
sales@atceramics.com

CERAMICS

ATC Asia
sales@atceramics-asia.com

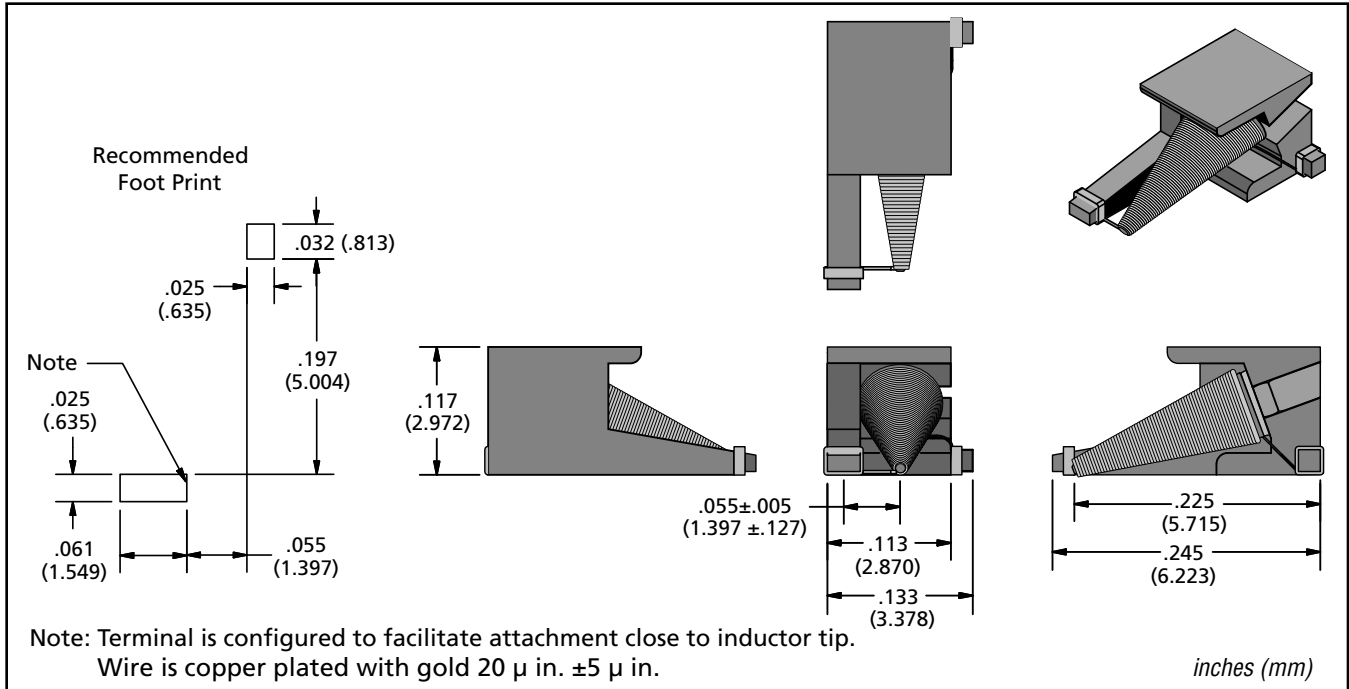
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ATC 506WLS SERIES UBL SMT INDUCTORS

Outline Dimensions



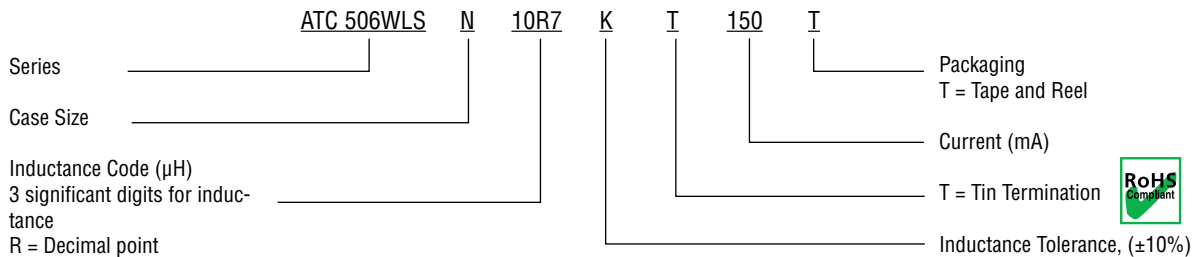
Mechanical Configurations

Size	Length (L)	Width (W)	Height (H)	Cu Wire Size (AWG)	Number of Turns
N	0.245 (6.223)	0.133 (3.378)	0.117 (2.972)	47	110

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

inches (mm)

ATC PART NUMBER CODE



The above part number refers to a 506WLS Series, Case Size N, 10.7 μH inductor, K tolerance (±10%, typ.), with Tin Termination (T), 150 mA, tape and reel packaging..

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

Consult factory for additional performance data.

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AMERICAN
ATC North America
sales@atceramics.com

TECHNICAL
ATC Europe
sales@atceramics.com

CERAMICS
ATC Asia
sales@atceramics-asia.com



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