ATC 506WLS SERIES UBL SMT INDUCTORS

ATC 506WLSN6R00KT236T Ultra-Broadband SMT Inductor

Features:

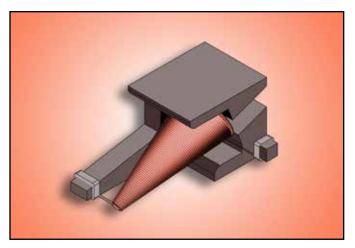
- Inductance: 6.00 µH
- Operating Frequency: 700 KHz (-3 dB roll-off) through 40+ GHz, typ.
- Insertion Loss (shunt mounted): <0.4 dB, typ.
- Return Loss (shunt mounted): >18 dB, typ.
- Operating Temperature Range: -55°C to +125°C
- Lead-Free, RoHS Compliant Terminations

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 highspeed digital logic.

Electrical Specifications:

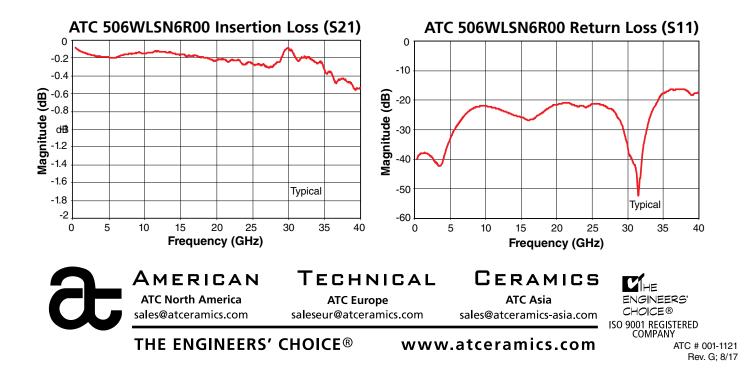
- Inductance: 6.00 μH ±10%*
- Rated DC Current (I_{DC} max.): 236 mA**
- DC Resistance (R_{DC} typ.):
 2.85 Ω, typ. at +20°C, 10 mA current.



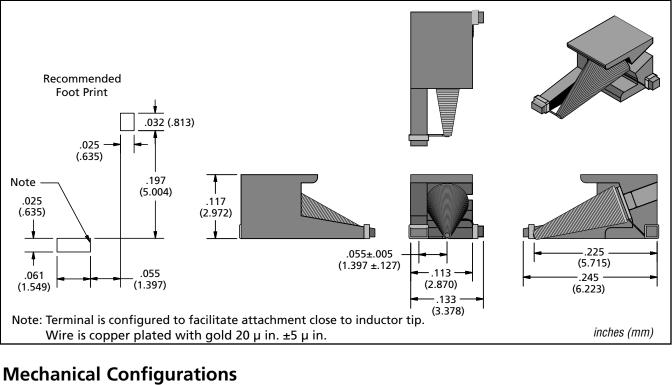
New Design

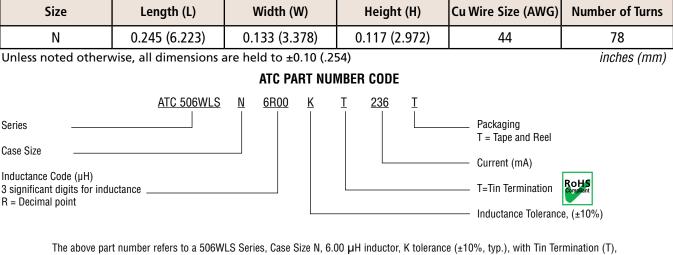
Advantages:

- 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





236 mA, tape and reel packaging.

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

ATC North America

sales@atceramics.com

Consult factory for additional performance data.

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