ATC 506WLSM1R10KT438T Ultra-Broadband SMT Inductor

Features:

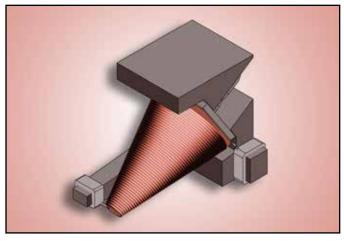
- Inductance: 1.10 μH
- Operating Frequency:
 3.3 MHz (-3 dB roll-off) through 40+ GHz, typ.
- Insertion Loss (shunt mounted): <0.6 dB, typ.
- Return Loss (shunt mounted): >22 dB, typ.
- Operating Temperature Range: -55°C to +125°C
- Lead-Free, RoHS Compliant Terminations

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:

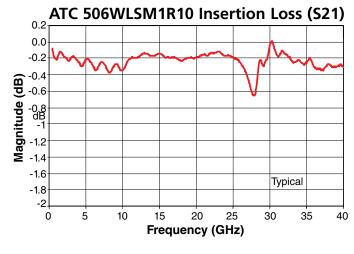
- Inductance: 1.10 µH ±10%*
- Rated DC Current (IDC max.): 438 mA**
- DC Resistance (R_{DC} typ.): 0.64 Ω, typ. at +20°C, 10 mA current.

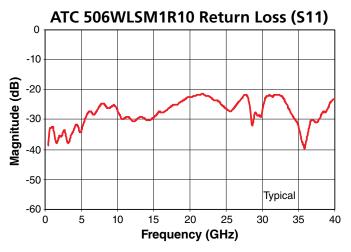


New Design

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.





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TECHNICAL

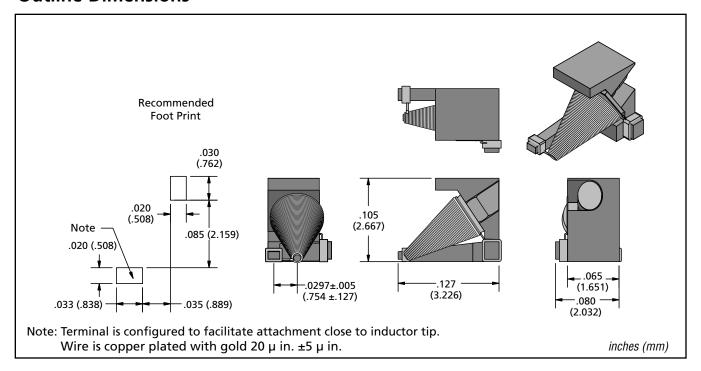
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ENGINEERS'
CHOICE®
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Outline Dimensions



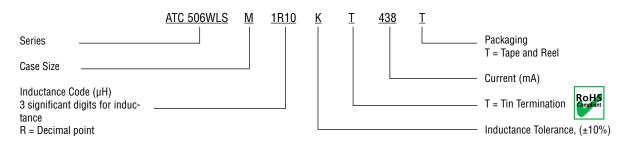
Mechanical Configurations

Size	Length (L)	Width (W)	Height (H)	Cu Wire Size (AWG)	Number of Turns
М	0.127 (3.226)	0.08 (2.032)	0.105 (2.667)	42	34

ATC PART NUMBER CODE

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

inches (mm)



The above part number refers to a 506WLS Series, Case Size M, 1.10 µH inductor, K tolerance (±10%, typ.), with Tin Termination (T), 438 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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