ATC 506WLSN2R00KT494T
Ultra-Broadband SMT Inductor

Features:
• Inductance: 2.00 µH
• Operating Frequency: 1.6 MHz (-3 dB roll-off) through 40+ GHz, typ.
• Insertion Loss (shunt mounted): <0.5 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.

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

Electrical Specifications:
• Inductance: 2.00 µH ±10%*
• Rated DC Current (IDC max.): 494 mA**
• DC Resistance (RDC typ.): 0.65 Ω, typ. at +20°C, 10 mA current.

*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

Recommended Foot Print

Note

ATC PART NUMBER CODE

Series ATC 506WLS
Case Size N
Inductance Code (µH) 2R00
3 significant digits for inductance
R = Decimal point

Current (mA) 494
T = Tape and Reel

Packaging T = Tin Termination

Inductance Tolerance, (±10%) RoHS

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

Consult factory for additional performance data.

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