

## ATC 520L Broadband Multilayer Capacitors

### Features:

- EIA 0402 Case Size
- Operating Frequency  
160 KHz to 16 GHz
- Insertion Loss: 1 dB max.
- Low Loss X7R Dielectric
- Solderable SMT Terminations

ATC, the industry leader, is introducing the new 520L Series Multilayer Broadband Capacitor. This device provides low insertion loss performance over multiple octaves of frequency spectrum. The 520L capacitor is compatible with high speed automated pick and place SMT manufacturing.

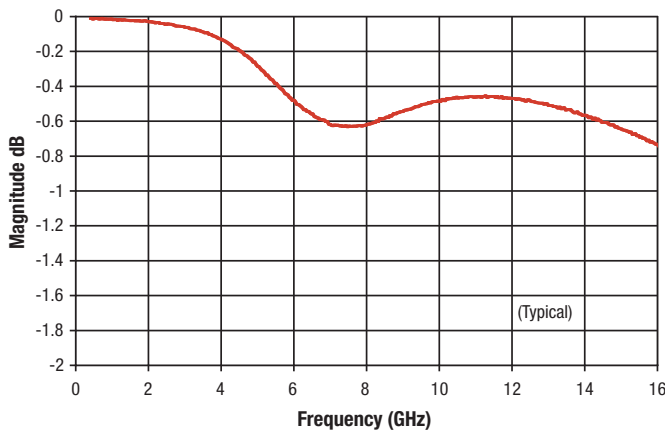
The 520L is ideal for broadband DC blocking, coupling, bypassing, and feedback applications in optical communications systems and equipment using high-speed digital logic.



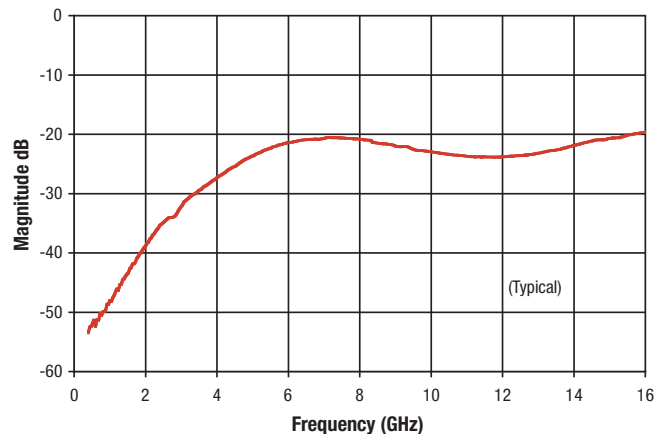
### Advantages:

- Broadband Performance
- Low Insertion Loss
- Flat Frequency Response
- Excellent Return Loss through 16 GHz
- Unit-to-Unit Performance Repeatability
- Rugged Ceramic Construction

### 520L Insertion Loss (S21)



### 520L Return Loss (S11)



### ATC 520L Data Sheet Test Condition Description

All testing performed on 10-mil-thick Rogers RO4350 microstrip board, with the UUT subtending a 24 mil gap in a 22-mil-wide center trace (nominal 50-ohm characteristic impedance). Measurements were made using an Anritsu 3680K Universal Test Fixture and an HP8722D Vector Network Analyzer having a four-receiver architecture. Measurements have been de-embedded to the edges of the UUT using a standard TRL calibration procedure.



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