

Ultra-Broadband Resistors



UBR Series



AVX Passive Micro Component group is pleased to introduce the UBR Series of next generation of surface mount Ultra-Broadband Resistors. This product was designed utilizing our proprietary Glass Sandwich Flexiterm® Technology, (GSFT). The Flexiterm® is a surface mountable automotive qualified termination that adds an extra margin against damage due to flexure during installation.

The UBR Series has been designed with high quality selected materials that yield excellent performance. This product is ideal for use in Optical Transceiver Modules or any application requiring excellent ultra-broadband performance.

FEATURES

- Frequency Range: DC to 20 GHz
- EIA 0402 Case Size
- Power Rating: 125 mW
- Operating Temperature: -40°C to +125°C
- 100% Laser Trimming for Tight Tolerances
- RoHS Compliant

APPLICATIONS

- Optical Transceiver Modules
- Broadband Receiver
- TOSA / ROSA
- Wideband Test Equipment
- Low Noise Amplifier
- MMIC Amplifiers
- Mixers
- Directional Couplers
- Ultra-Broadband Splitters and Combiners

MARKETS

- Opto-electronics
- Automotive
- Telecom
- Broadband Jamming for EW
- Satellite Communication

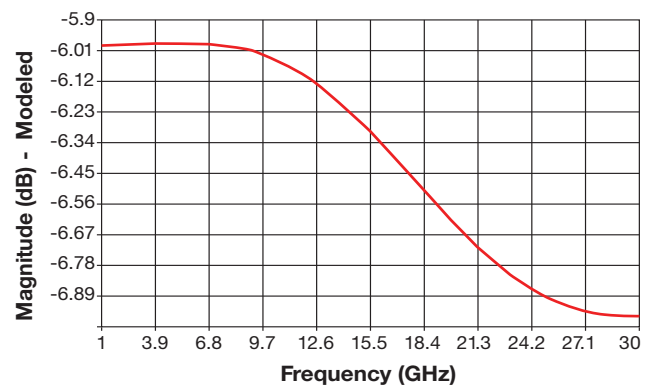
HOW TO ORDER

UBR	0402	A	500	E	Z	TR
Series Code UBR = Ultra-Broadband Resistor	Case Size 0402 = 0402 BR0S = Special Request Please supply design or contact factory	TCR (ppm/°C) A = ±250 B = ±100 C = ±50* D = ±25* S = Special Request Please supply design or contact factory	Resistance First 2 Significant digits for Resistance R for decimal point	Tolerance E = ±0.5% F = ±1% G = ±2% S = Special Request Please supply design or contact factory	Termination Type Z = Flexiterm® (Ag/Epoxy) NiSn plated 7 = Gold Termination	Packaging TR = 5000pcs, 7" reel

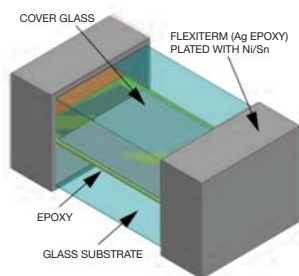
Specifications

Resistor	Detail
Outline	EIA 0402
Package	Glass wafer sandwich
Standard Resistance Values (Ω)	25Ω, 50Ω, 100Ω, 200Ω
Resistance Value Range	From 25Ω to 400Ω
Termination	Flexiterm® (Ag/Epoxy) NiSn plated Ni/Au - Gold termination
Power Rating	125 mW
Operating Temperature Range	-40°C to +125°C
Tolerance	0.5%, 1%, 2%
Cold Storage	-65°C

Series Flatness vs. Frequency



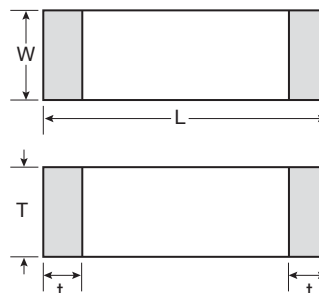
RESISTOR MATERIAL PROPERTIES



Resistor Material (TaN): Properties	
Sheet Resistance (Ohms per Square)	TCR ppm/°C
30 to 100	50 to -150

MECHANICAL DIMENSIONS

mm (inches)



Length (L)	1.00±0.10 (0.039±0.004)
Width (W)	0.50±0.10 (0.020±0.004)
Thickness (T)	0.50±0.10 (0.020±0.004)
Terminal (t)	0.25±0.15 (0.010±0.006)