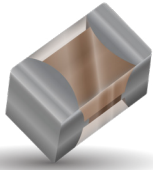


UBR Series

Ultra-Broadband Resistors

GENERAL DESCRIPTION



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. The use of glass sandwich technology and precision laser trimming reduces parasitic noise up to 20 GHz.

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 0201 = 0201	TCR (ppm/°C) A = ±250 B = ±100 C = ±50* D = ±25* E = Special Request Please supply design or contact factory *Non-standard TCR values per special request	Resistance First 2 Significant for Resistance R for decimal point	Tolerance E = +/-0.5%* F = ± 1% G = ± 2% S = Special Request Please supply design or contact factory *Non-standard tolerance values per special request	Termination Type Z = Flexiterm® (Ag/Epoxy) NiSn plated 7 = Gold Termination* *Non-standard termination per special request	Packaging TR = 7" reel

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)

0402 SPECIFICATIONS

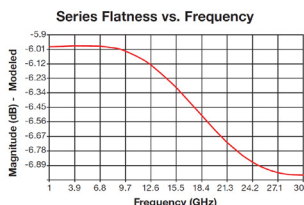
Resistor	Detail
Outline	EIA 0402
Package	Glass wafer sandwich
Maximum Voltage	1 KV
Resistance Value Range	From 16.6 Ohms to 200 Ohms
Termination	FLEXITERM® (Ag/Epoxy), plated
Power Rating	125 mW
Operating Temperature Range	-40°C to +125°C
Tolerances	0.5%, 1%, 2%, 5%

MECHANICAL DIMENSIONS mm (inches)

Length (L)	0.60±0.050 (0.024±0.010)
Width (W)	0.325±0.050 (0.024±0.010)
Thickness (T)	0.325±0.050 (0.020±0.004)
Terminal (t)	0.150±0.050 (0.006±0.010)

0201 SPECIFICATIONS

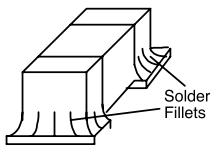
Resistor	Detail
Outline	EIA 0201
Package	Glass wafer sandwich
Maximum Voltage	1 KV
Resistance Value Range	From 16.6 Ohms to 200 Ohms
Termination	FLEXITERM® (Ag/Epoxy), plated
Power Rating	125 mW
Operating Temperature Range	-40°C to +125°C
Tolerances	0.5%, 1%, 2%, 5%



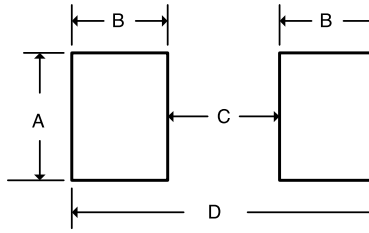
UBR Series

Ultra-Broadband Resistors

SUGGESTED MOUNTING PAD DIMENSIONS



Normal Pads



W = Chip Width L = Chip Length T = Chip Thickness

Case Size	A Min.	B Min.	C Min.	D Min.
0201	0.0256	0.0075	0.0130	0.0268
0402	0.0213	0.0125	0.0206	0.0436

Dimensions are in inches.

NOTES:

Mounting will allow the solder fillet to travel up approximately 0.015" of the chip's end and side termination surface. Heavier fillets require a predeposition of solder paste and or an increase in pad dimensions. Typical solder paste application is a .008" to 0.01" thickness with >50% of volume in solder alloy.