



UWB SERIES

UHF WIDEBAND TRANSFORMER



RoHS & SPACE VERSION AVAILABLE

MIL-PRF-27

Bandwidth (MHz)	Max Insertion Loss	Impedance Ratio	Max VSWR
1 to 2750	< 3 dB	1:1	1.40

MARKINGS: LASER OR INK

ALL DIMENSIONS: INCHES

ELECTRICAL SPECIFICATIONS

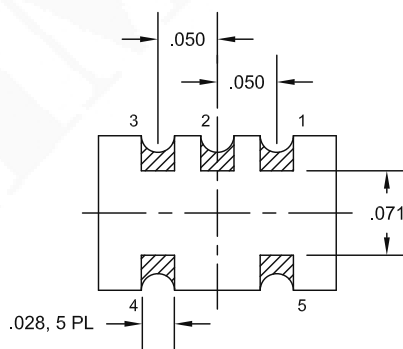
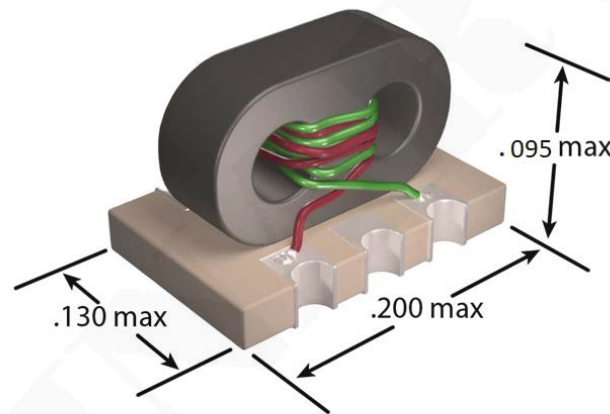
- **Operating Temperature:** -55°C to +125°C
- **Storage Temperature:** -60°C to +130°C
- **Dielectric Withstanding Voltage:** 250 V_{AC}
- **Different electrical values available upon request**
- **Power Rating:** 250 mW
- **Extremely low insertion loss & excellent input return loss over widened bandwidth range**

FEATURES

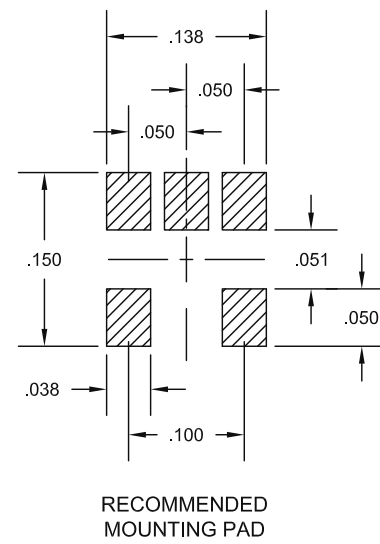
- **Compact**, low profile, ideal for automatic placement
- Built to meet **MIL-PRF-27** specifications
- **Terminations:** Tin-lead, Gold, RoHS
- **Vibration and Shock Resistant**
- **Resistance to Soldering Heat:** 265°C for 10 secs
- **Tape and Reel Packaging Available**

APPLICATIONS

- Wideband Transformers
- RF Transformers
- GPS
- Satellite Links
- Wireless Communication
- Analog to Digital Converters
- Signal Integrity
- Broadband Applications
- Balanced Receivers

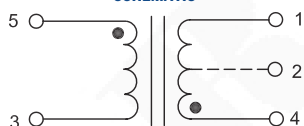


BOTTOM VIEW



RECOMMENDED MOUNTING PAD

SCHEMATIC



CUSTOM DESIGNS & MODIFICATIONS:

Other electrical configurations and performance characteristics are available in various sizes and package types



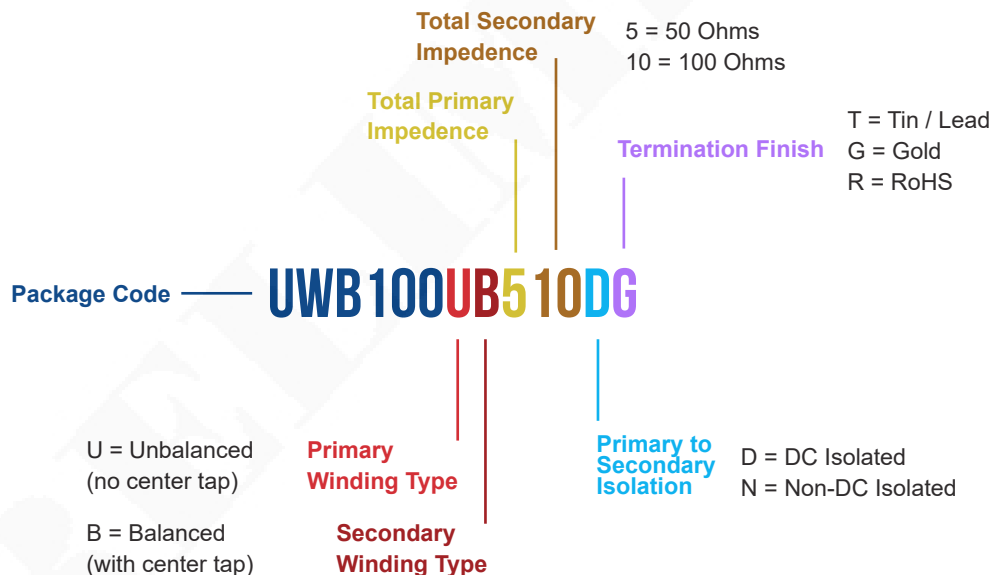


DATA TABLE

Vanguard P/N	Bandwidth (MHz)	Impedance Ratio Pri:Sec (Ohms)	Pri. and/or Sec. Center Tap	Insertion Loss max (dB)	VSWR max
UWB100	1 - 1000	50 : 50	Avail. upon req.	< 0.5	1.40
UWB200	1000 - 1500	50 : 50	Avail. upon req.	< 0.75	1.25
UWB300	10 - 2000	50 : 50	Avail. upon req.	< 1	1.40
UWB400	1500 - 2750	50 : 50	Avail. upon req.	< 3	1.20
UWB500	10 - 2750	50 : 50	Avail. upon req.	< 3	1.40

1/ Electrical measurements recorded at room temperature.

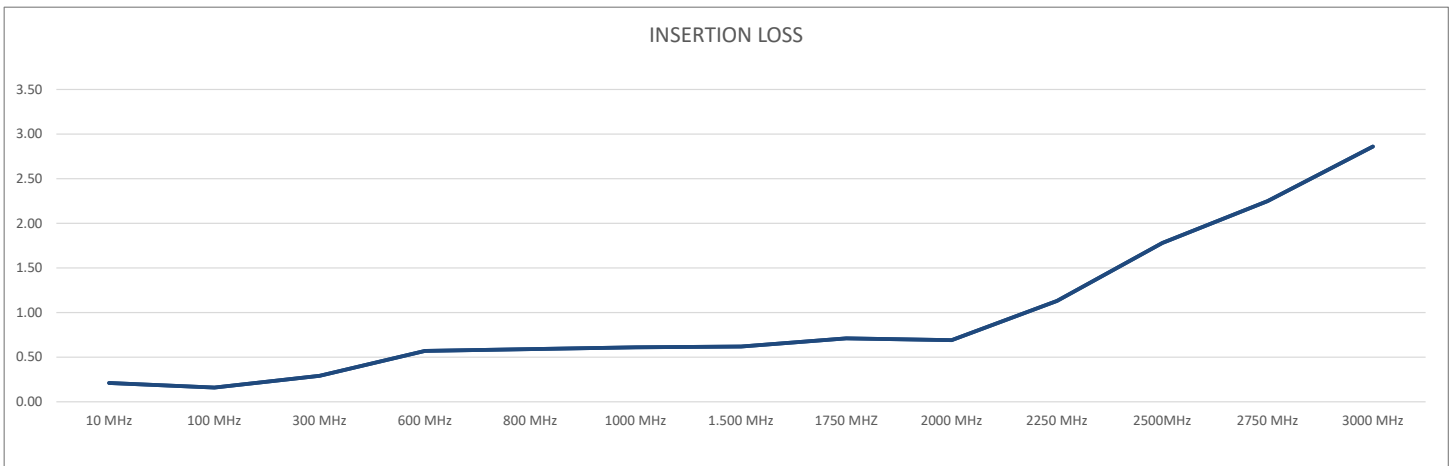
PART NUMBER



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*Data recorded at 25°C.

PIN OUT CHART	
PIN #	FUNCTION
1	Output
2	N/C
3	Ground
4	Ground
5	Input

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