

# SMT Mini Ultra-Wideband Transformers

## UWB SERIES



### FEATURES:

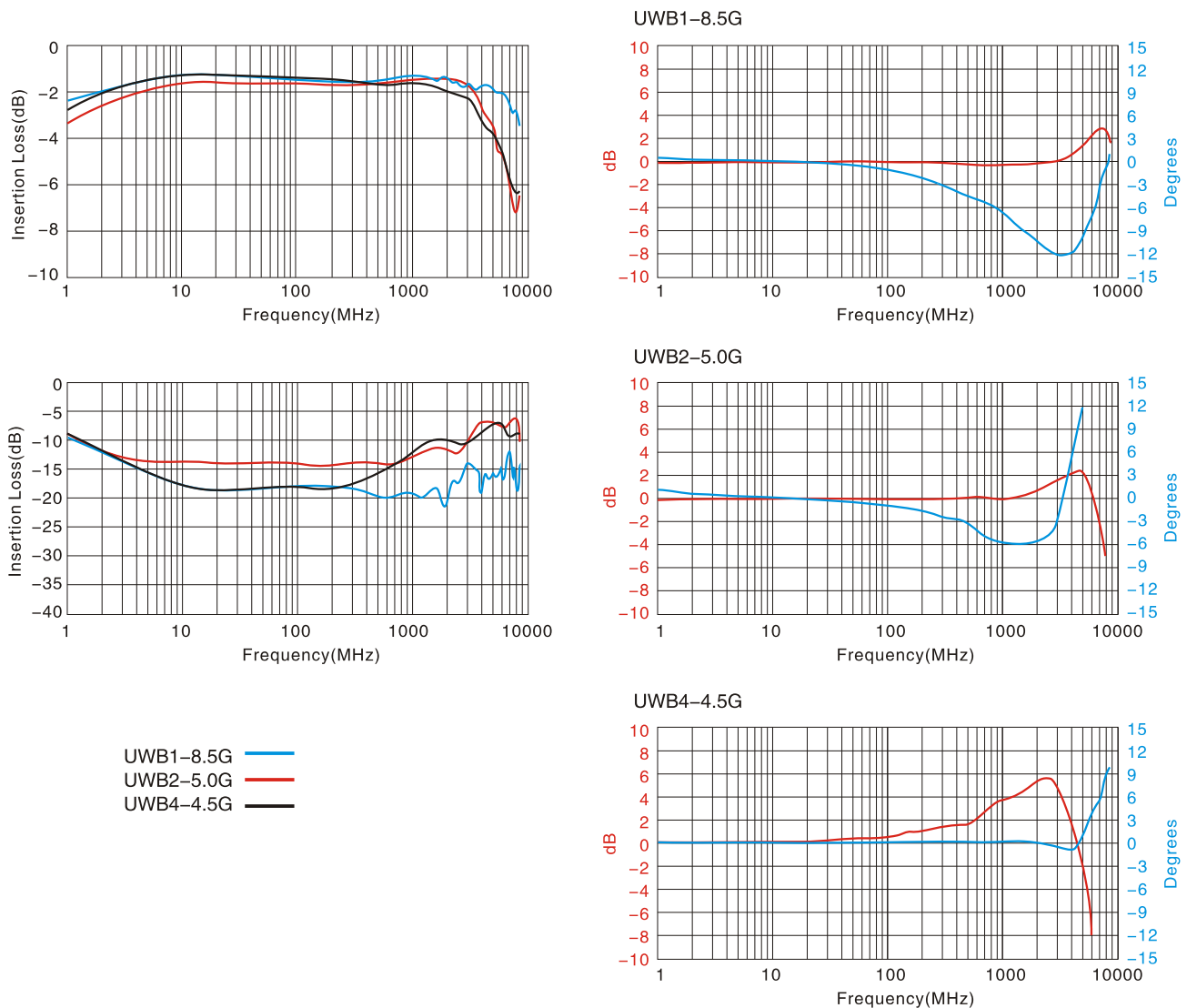
- 3 dB bandwidth: 1MHz to 8.5GHz
- 1/4 Watt RF input power
- 250 mA max current rating
- AEC-Q200 Grade 1 (-40°C to +125°C)

### STANDARD SPECIFICATION:

Part No.	Impedance ratio Pri:Sec	Bandwidth (MHz)	Insertion loss (dB)Max	Inductance (uH)Min	DCR (mΩ)Max
UWB1-8.5G	1:1	1-8500	1.5	3.6	45
UWB2-5.0G	1:2	0.5-5000	1.5	7.5	71
UWB4-4.5G	1:4	0.5-4500	1.3	7.5	71

1. Inductance measured per winding at 1MHz, 0.1V, 0Adc on an Agilent4192
2. DCR measured per winding on a micro-ohmmeter.
3. Electrical specifications at 25°C. Measurements are referenced to 50Ω.

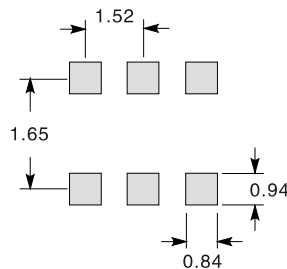
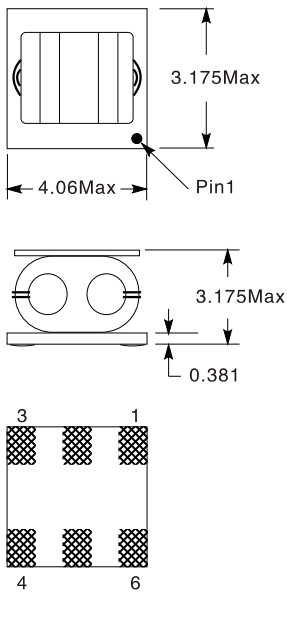
### PERFORMANCE CURVE



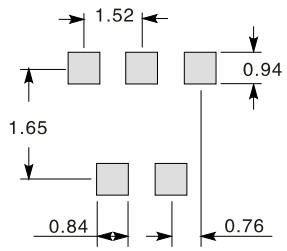
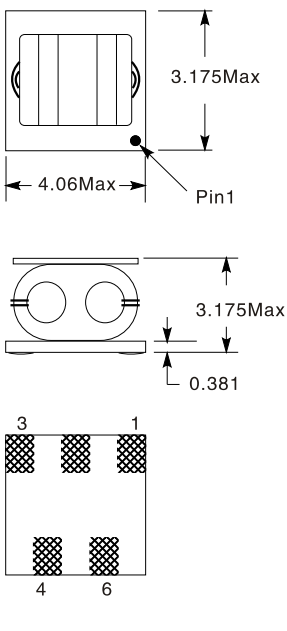
**PHYSICAL CHARACTERISTICS**

**TECHNICAL INFORMATION:**

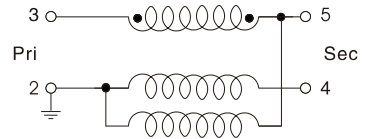
UWB1-8.5G UWB2-5.0G



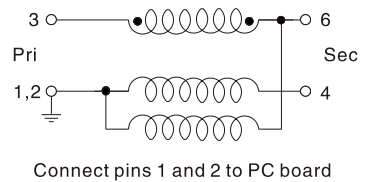
UWB4-4.5G



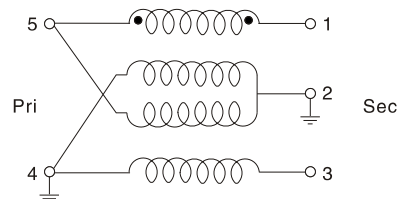
UWB1-8.5G



UWB2-5.0G



UWB4-4.5G



Core material Ferrite  
 Environment RoHS compliant, halogen free  
 Ambient temperature -40°C to +125°C  
 Maximum part temperature +140°C  
 Storage temperature Component: -40°C to +140°C  
 Tape and reel packaging: -40°C to +80°C  
 Packaging 750/7" reel; 2500/13" reel; Plastic tape: 12mm wide, 0.4mm thick, 8mm pocket spacing, 3.05mm pocket depth