

Mini Ultra-Wideband Transformers ST440RFU



- 3 dB bandwidth: 1 MHz to 8.5 GHz
- 1/4 Watt RF input power
- 250 mA max current rating

Core material Ferrite

Terminations Tin-silver-copper (95.5/4/0.5) over leach-resistant silver-platinum-glass frit. Other terminations available at additional cost.

Weight 85 – 105 mg

Ambient temperature –40°C to +125°C

Maximum part temperature +140°C

Storage temperature Component: –55°C to +140°C.

Tape and reel packaging: –55°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Packaging 750/7" reel; 2500/13" reel; Plastic tape: 12 mm wide, 0.4 mm thick, 8 mm pocket spacing, 3.05 mm pocket depth

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

Part number ¹	Impedance ratio pri:sec	Bandwidth (MHz)	Insertion loss max (dB)	L min ² (μH)	DCR max ³ (mOhm)
ST440RFU01A1LZ	1:1	1 – 8500	1.5	3.6	45
ST440RFU02A1LZ	1:2	0.5 – 5000	1.5	7.5	71
ST440RFU04B1LZ	1:4	0.5 – 4500	1.3	7.5	71

1. When ordering, please specify **termination** and **screening** codes:

ST440RFU04B1LZ

Termination: L = Tin-silver-copper (95.5/4/0.5) over leach-resistant silver-platinum-glass frit.

S = Tin-lead (63/37) over leach-resistant silver-platinum-glass frit

Screening: Z = Unscreened

H = Coilcraft CP-SA-10001 Group A

• Screening performed to the document's latest revision.

• Lot qualification (Group B) available.

• Custom testing also available.

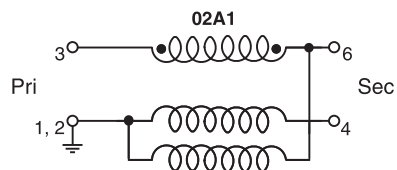
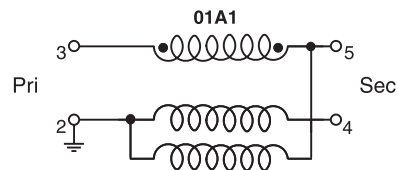
2. Inductance measured per winding at 100 KHz, 0.1 V, 0 Adc on an Agilent/HP 4192 or equivalent.

3. DCR measured per winding on a micro-ohmmeter.

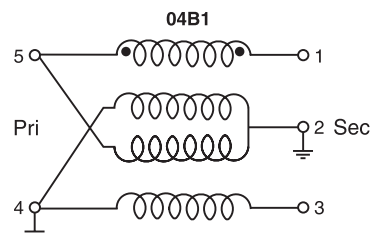
5. Electrical specifications at 25°C. Measurements are referenced to 50 Ohms.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

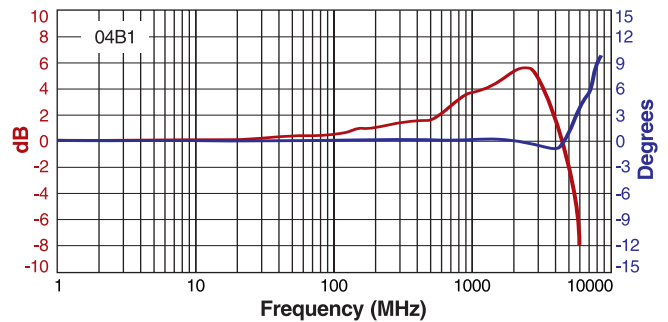
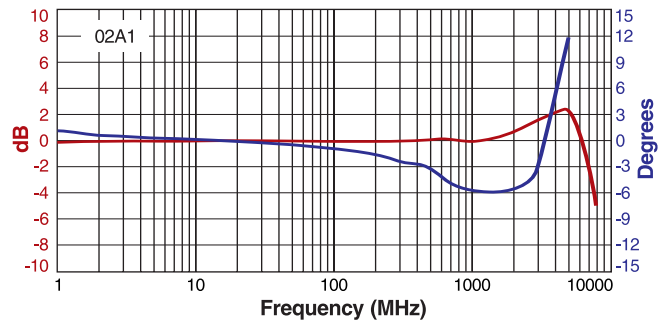
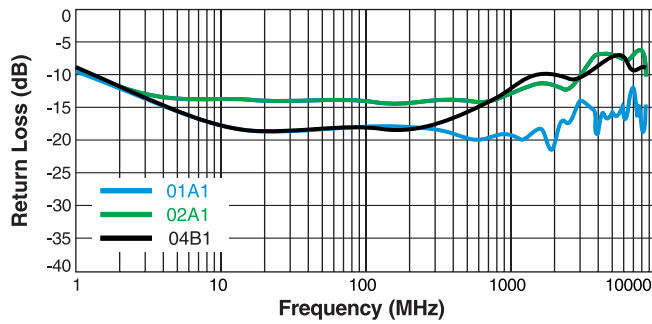
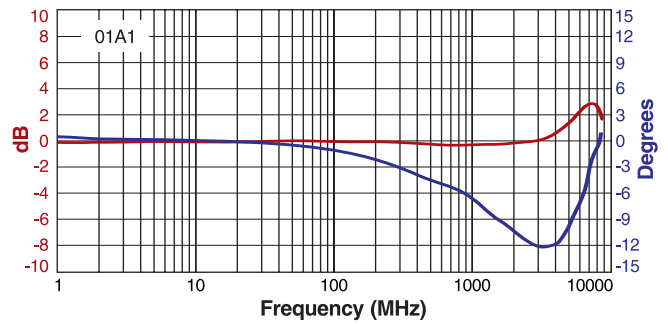
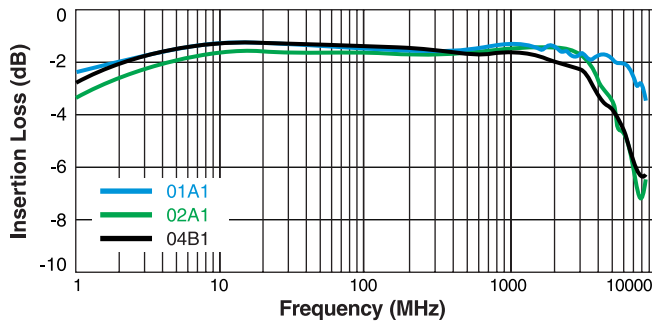
Schematics



Connect pins 1 and 2 to PC board

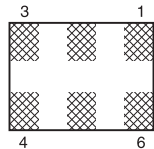
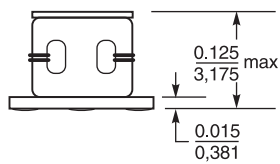
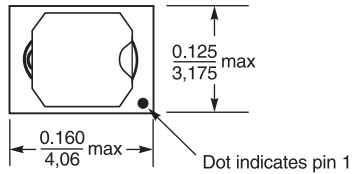


SMT Mini Ultra-Wideband Transformer – ST440RFU



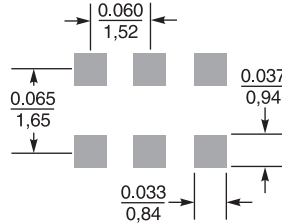
SMT Mini Ultra-Wideband Transformer – ST440RFU

Dimensions – ST440RFU01A1, 02A1

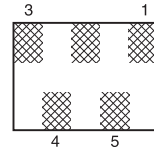
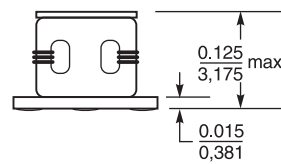
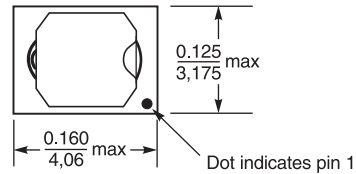


Dimensions are in $\frac{\text{inches}}{\text{mm}}$

Suggested Land Pattern



Dimensions – ST440RFU04B1



Suggested Land Pattern

