



[Bi Directional RF Coupler - BroadBand - Surface Mount - BBTLine](#)

Splitter Features:

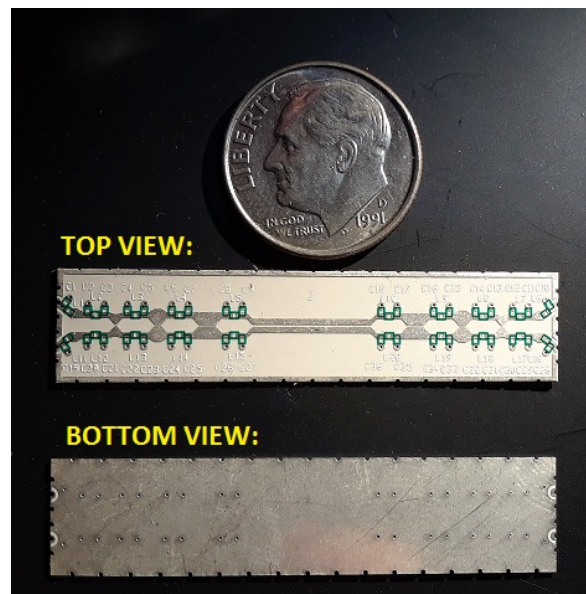
- BroadBand - 0.8 GHz to Greater Than 6 GHz
- Low Loss - Less Than 0.65 dB at 6 GHz
- High Directivity - Greater Than 20 dB to 6 GHz
- Optional BOM Configuration
- RoHs Compliant
- Immersion Silver Finish

Part Number:

BBTLine_Coupler1_SMT

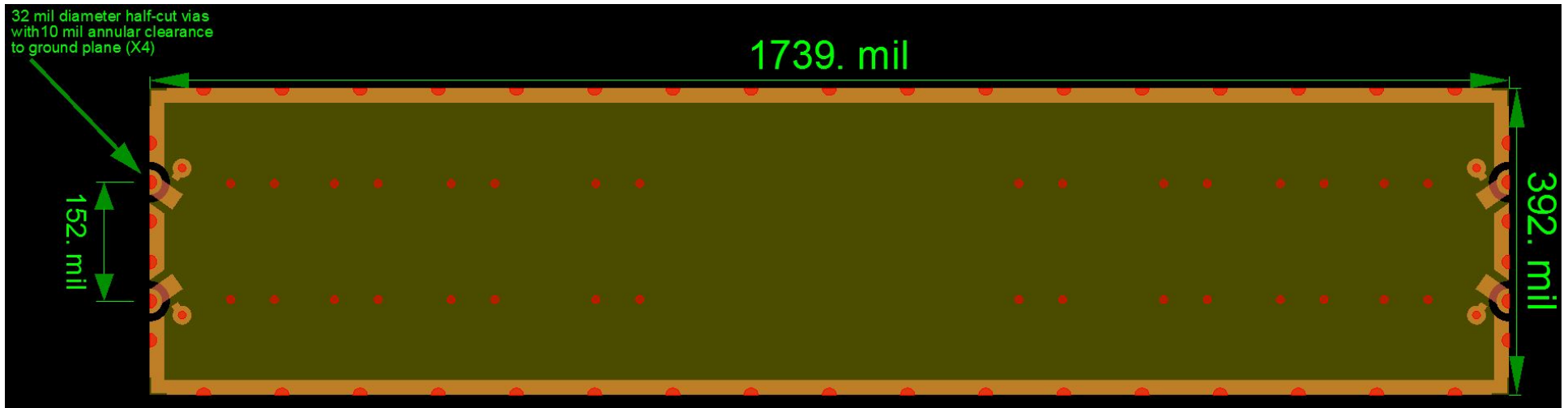
Description:

Shown below is a Four Port Surface Mount (SMT) Bi Directional RF Coupler. The Coupler has excellent performance from 0.8 GHz to greater than 6 GHz. Two different BOM configurations allow the user to select between Directivity options. The device below is shown without components populated.



Note: Directivity is a strong function of surrounding parasitics. Allow at least 250 mil Z-height clearance from this device to minimize impact upon Directivity.

Mechanical Dimensions:



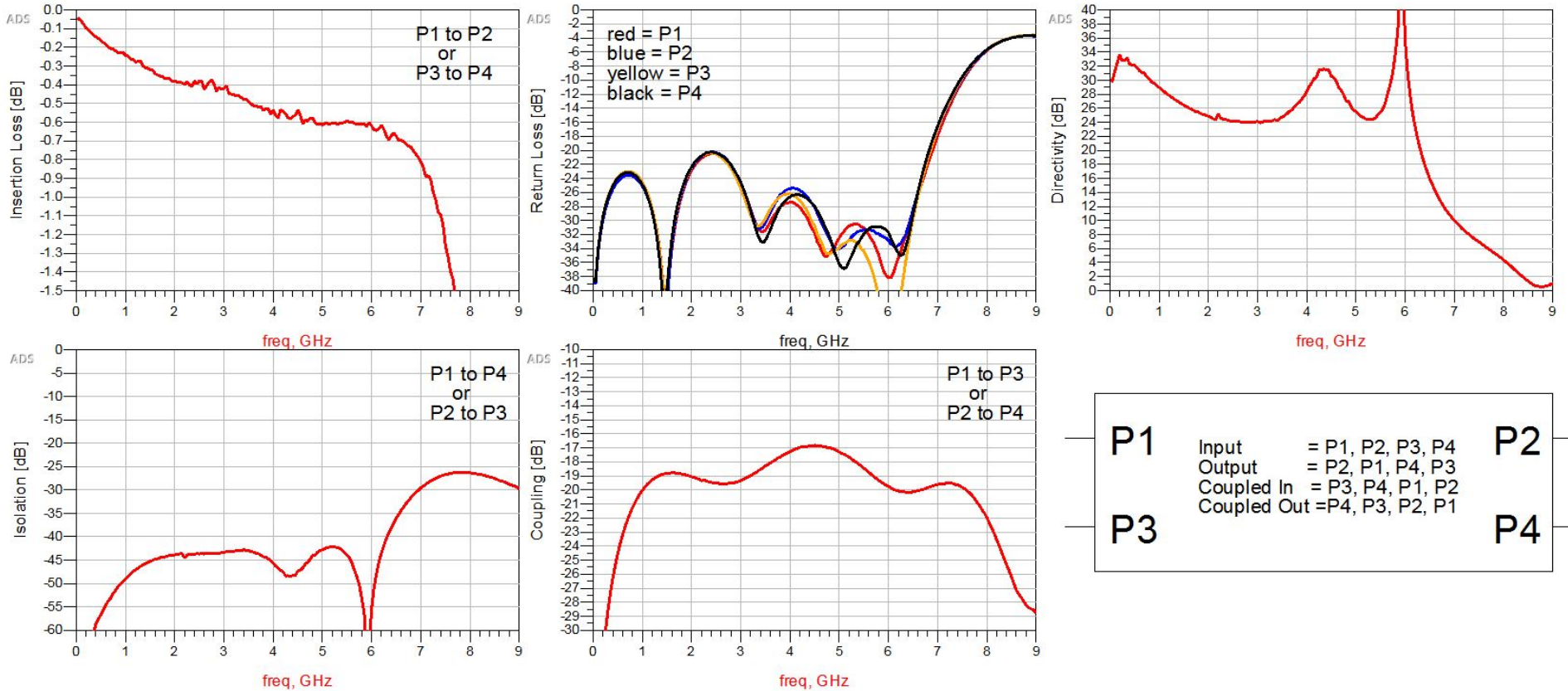
RF Specifications:

Specifications (at Room Temperature):	BOM1 Configuration	BOM2 Configuration
Frequency Range [GHz]	0.8 to 6	0.8 to 6.6
Insertion Loss [dB] at 6 GHz	< 0.65	< 0.7
Directivity [dB]	> 20	> 15
Mean Coupling [dB]	-19	-19
Coupling Ripple [dB]	+/- 2	+/- 2
Return Loss [dB], All Ports	< -20	< -19
RF Power [Watts]*	>20 *	>20 *

* Note: 20 Watts is the test setup limitation, not the coupler power-handling limitation. Tested at a CW freq of 3.55 GHz

Typical Device RF Performance:

BOM Option #1: Higher Directivity at Lower Frequencies (> 23 dB to 6.2 GHz)



BOM Option #2: Lower Directivity To Higher Frequencies (>15 dB to 6.9 GHz)

