



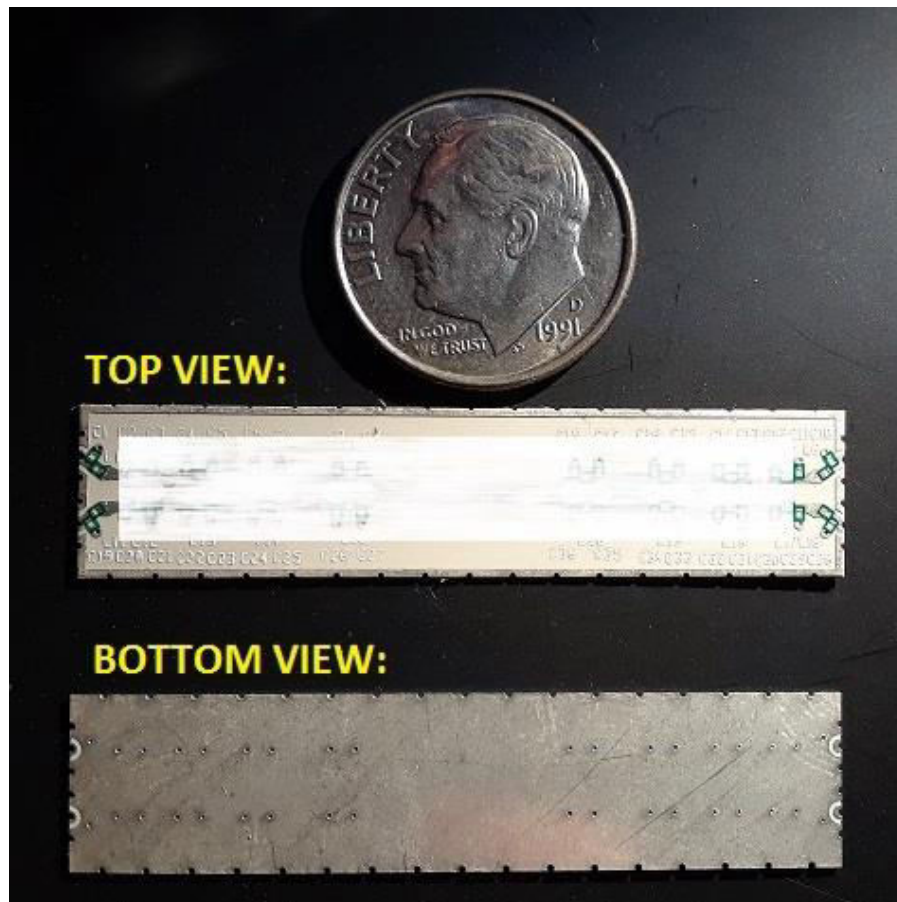
BroadBand Surface Mount (SMT) Bi-Directional Coupler

Features:

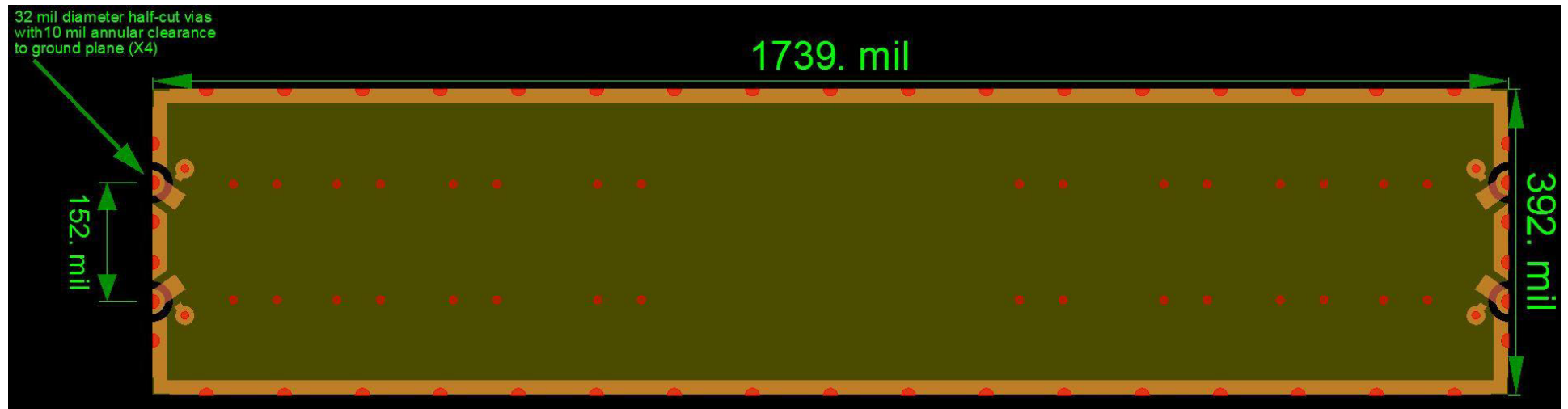
- BroadBand 0.8 to 7 GHz Operation
- Low Loss (0.6 dB at 6 GHz)
- High Directivity (> 23 dB to 6.2 GHz)
- RoHs Compliant
- Immersion Silver Finish

Datasheet Model Number: [BBTLine_Coupler1_SMT](#)

Description: Shown below is a four port, surface mount (SMT), RF Bi-Directional Coupler. The coupler has excellent performance from DC to > 6 GHz. Different BOM configurations allow the user to select between Directivity options. The device below is shown without components populated and without an EMI shield can (EMI shield can is optional).



Mechanical Dimensions:

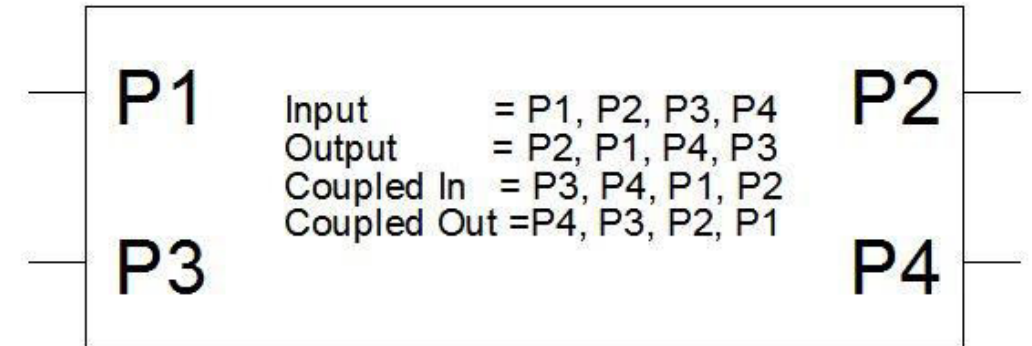
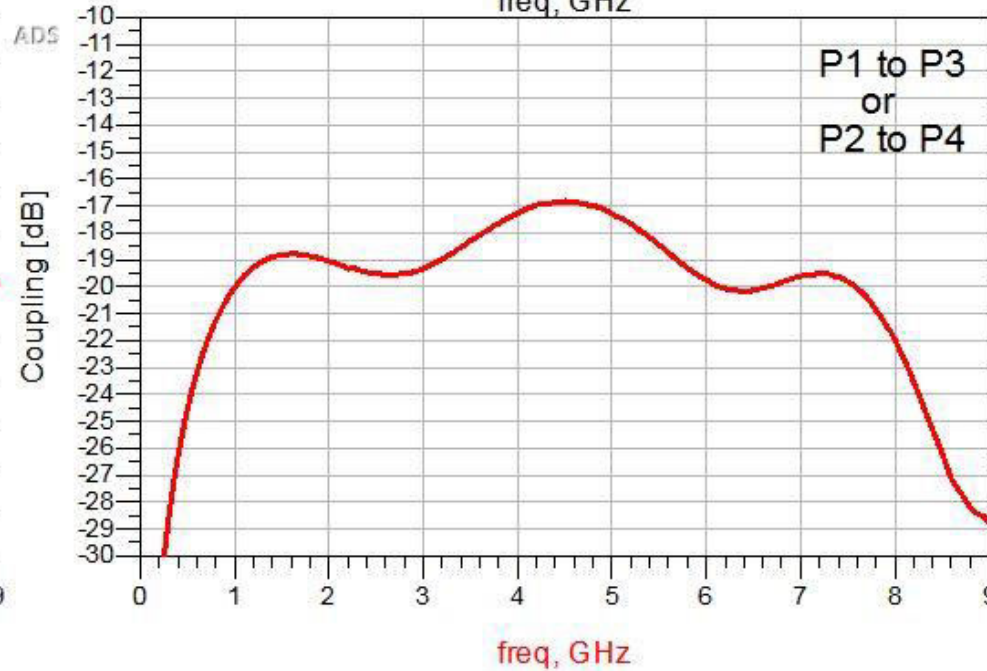
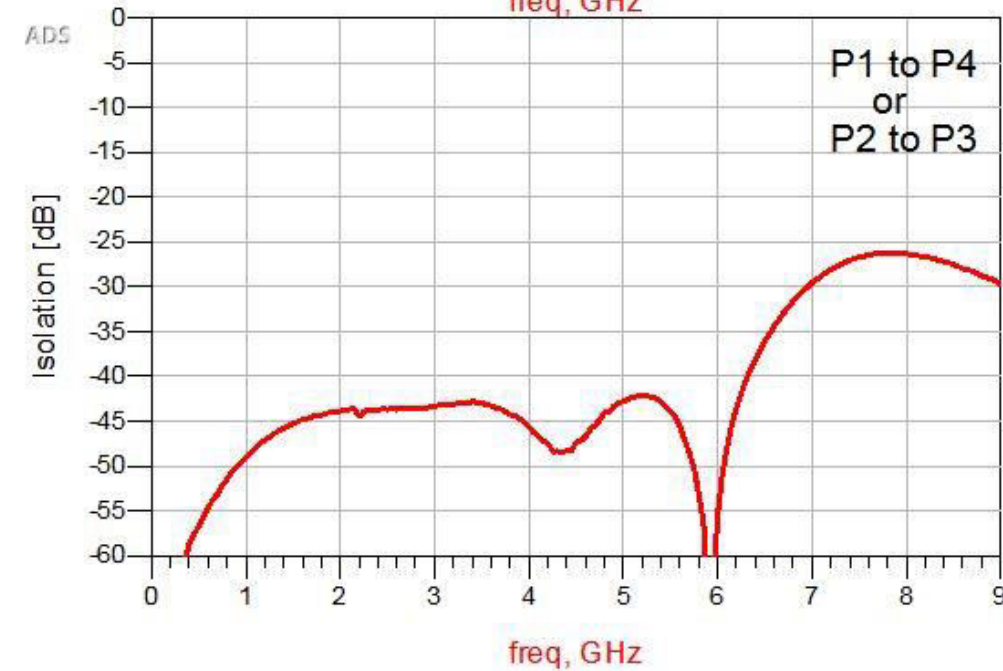
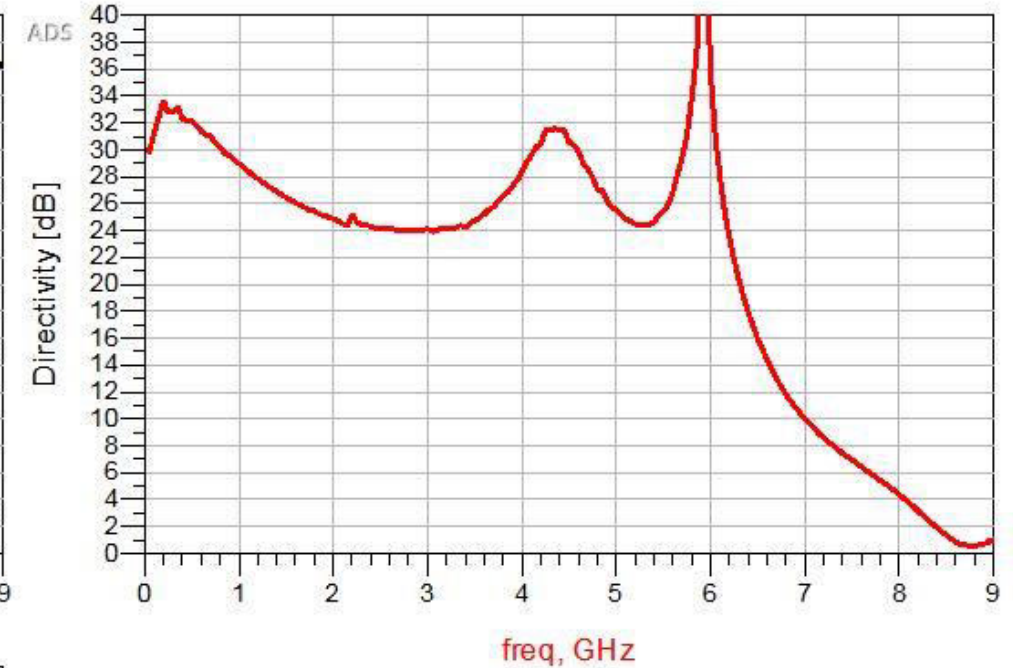
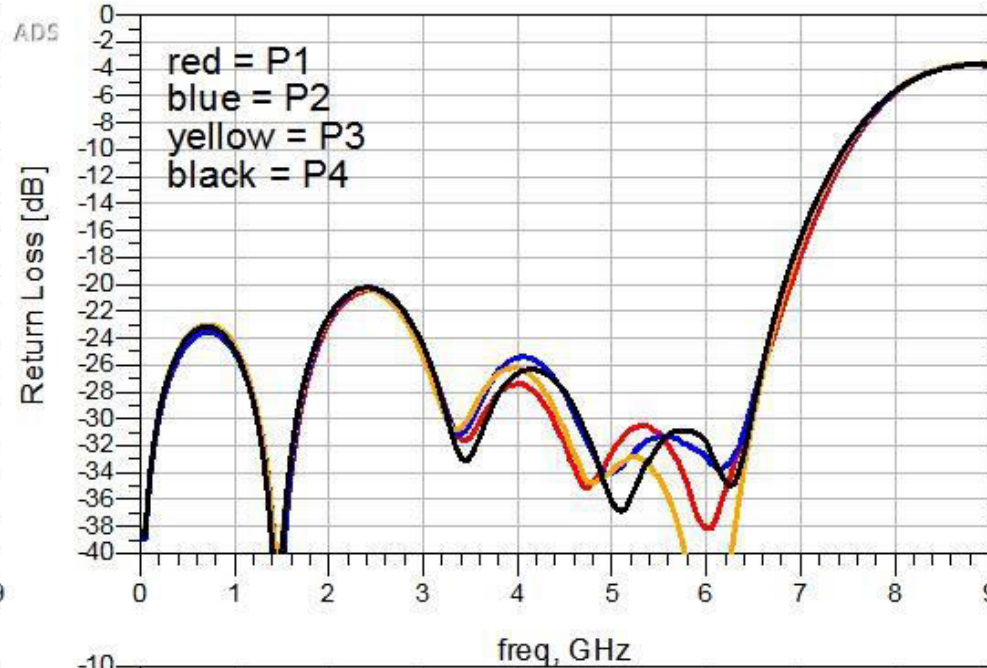
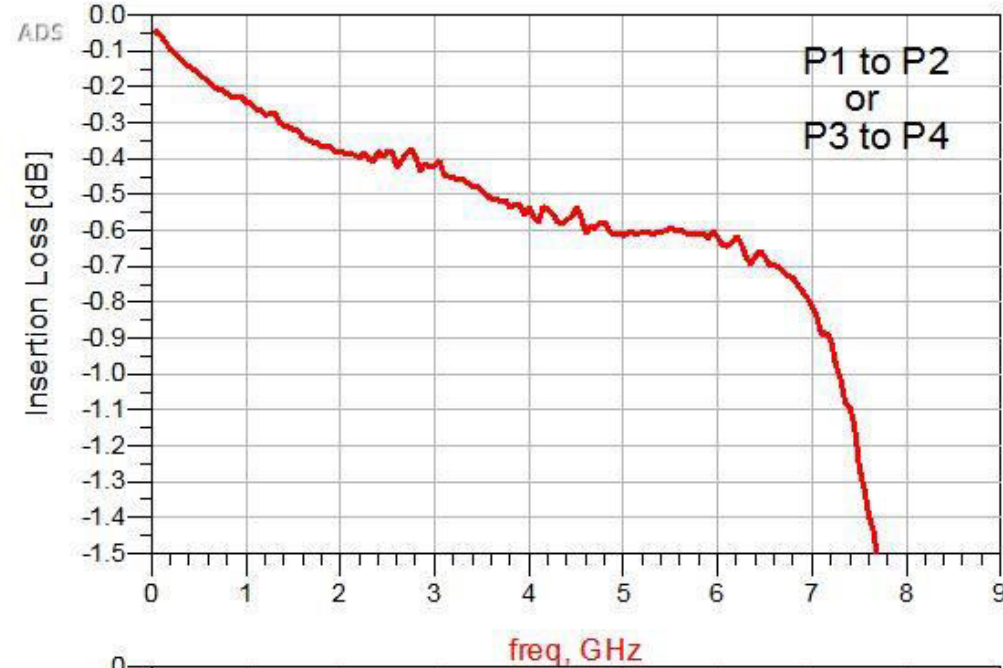


RF Specifications:

Specifications (at Room Temperature):	BOM1 Configuration	BOM2 Configuration
Frequency Range [GHz]	0.8 to 6.2	0.8 to 6.8
Insertion Loss [dB] at 6 GHz	< 0.65	< 0.7
Directivity [dB]	> 23	> 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

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)

