

4-Way RF Power Divider - Version 1 - SMP Connectors - BBTLine

Features:

- BroadBand 0.5 GHz to 7 GHz
- Low Loss Less Than 1.5 dB at 6 GHz
- Excellent Amplitude/Phase Balance Better Than 0.15 dB/2.5 Degrees At 6 GHz
- RoHs Compliant
- High Power Greater Than 20 Watts As A Splitter

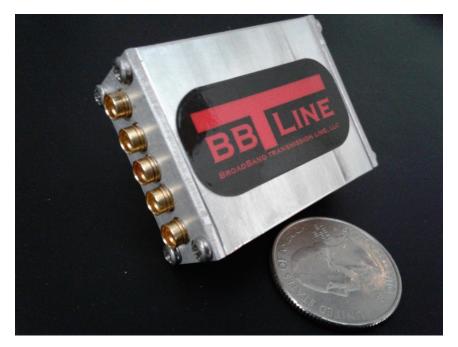
Part Number:

BBTLine_4Way_V1_SMP

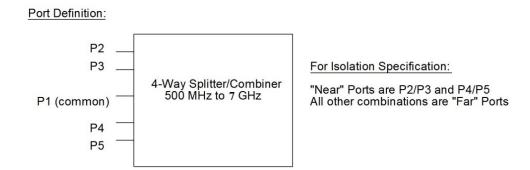
Version 1 Has All Five Ports On One Side of The Splitter

Description:

Shown below is a Patented (U.S. Patent 9,570,792) Broadband 4-Way RF Combiner with SMP Male Smooth-Bore Connectors. This RF Splitter is not a typical Wilkinson-style device, but a design which yields a more compact Divider with excellent low loss RF characteristics and High Power Handling capability.



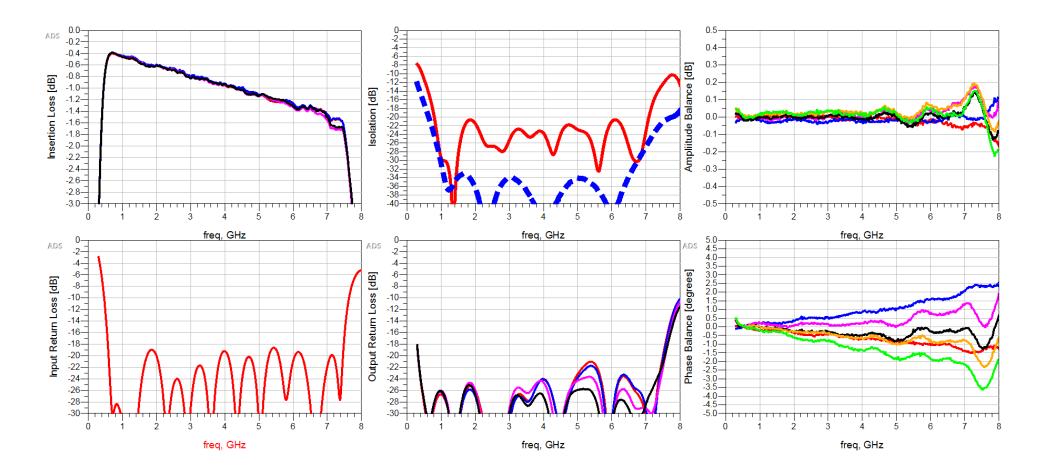
RF Specifications:



Frequency Range [GHz]	0.5 to 7
Insertion Loss @ 6 GHz [dB]	< 1.5
	10
Near Port Isolation [dB] (0.5 to 0.6 GHz)	> 10
Near Port Isolation [dB] (0.8 to 7 GHz)	> 19
Far Port Isolation [dB] (0.5 to < 0.6 GHz)	> 16
Far Port Isolation [dB] (0.8 to 7 GHz)	> 23
Input (Common Port) Return Loss [dB] (0.5 to < 0.6 GHz)	<-11
Input (Common Port) Return Loss [dB] (0.6 to 7 GHz)	< -16
Output Return Loss [dB]	< -19
Maximum Power as Splitter [Watts]	> 20*
Maximum Power as Combiner [mWatts], Same-Frequency/In-Phase Signals	> 20*
Maximum Power as Combiner [mWatts], Same-Frequency/Anti-Phase Signals	= 50 **
Phase Unbalance to 6 GHz [degrees]	< +/- 2.5
Amplitude Unbalance to 6 GHz [dB]	< +/- 0.15
Operating Temperature Range [degrees C]	-55 to 125
Mass [grams]	< 42
* 20 watts is a test setup limitation NOT a device limitation (tested at CW frequ	ency of 3.55 GHz)
** internal 0201 isolation resistor worst-case limitation (when combining Same	-Frequency/perfectly-Anti-Phase signals)

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Typical Device RF Performance:



Mechanical Dimensions:

