

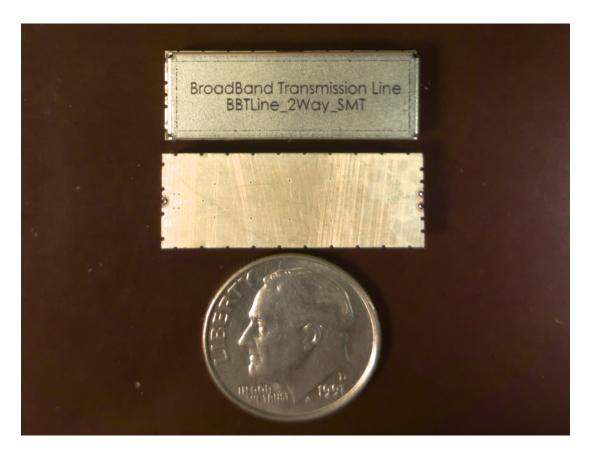
<u>2-Way RF Splitter - BroadBand - Surface Mount - BBTLine</u>

Splitter Features:

- BroadBand 0.5 GHz to 7 GHz
- Low Loss (Less Than 0.7 dB at 6 GHz)
- Excellent Amplitude/Phase Balance (0.1 dB/1 Degree @ 6 GHz)
- High Power (Greater Than 20 Watts As A Splitter)
- RoHs Compliant

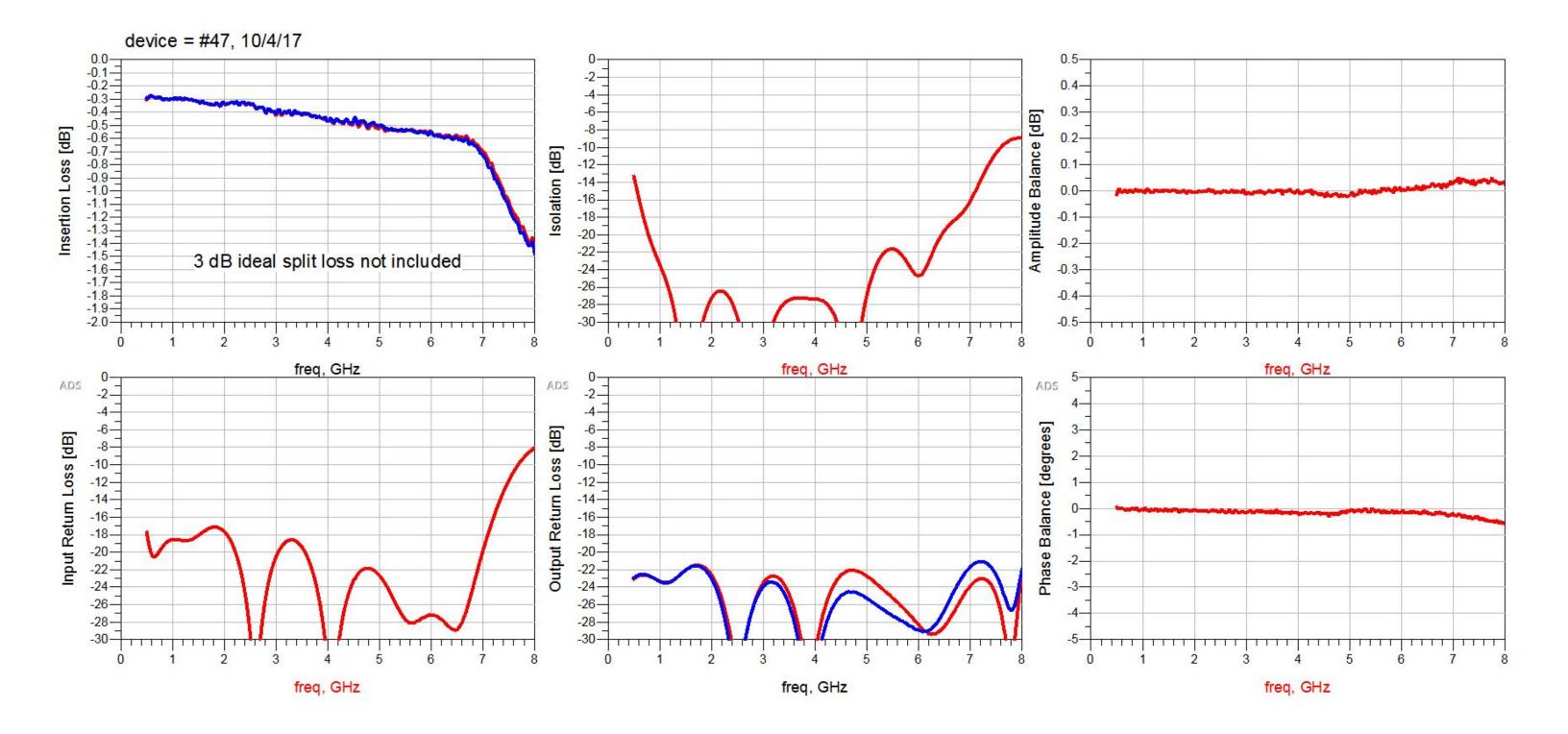
Datasheet Model Number: BBTLine_2Way_SMT

Description: Shown below is a patented (U.S. Patent 9,570,792) broadband 2-way surface mount (SMT) RF Splitter/Combiner. This RF splitter is not a typical Wilkinson device, but a design which yields a more compact Splitter/Combiner with excellent low loss RF characteristics and high power handling capability.

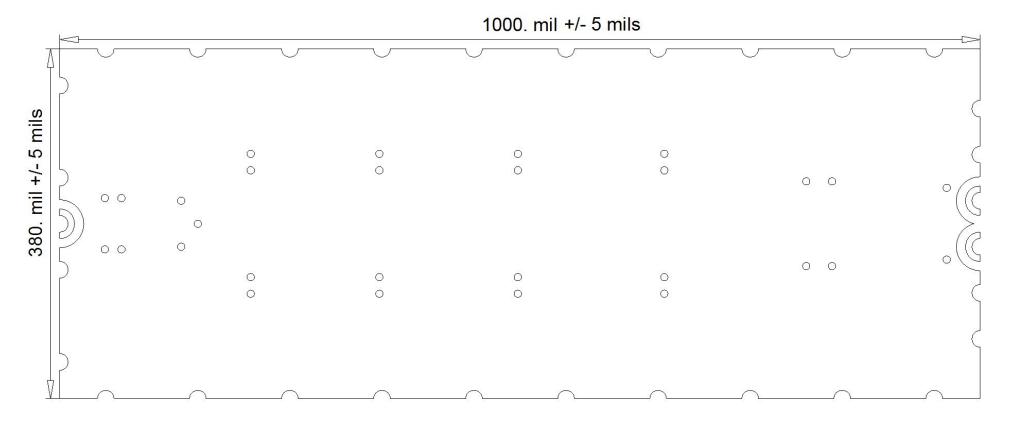


<u>RF Specifications:</u>

Frequency Range [GHz]	0.5 to 7
Insertion Loss @ 6 GHz [dB]	< 0.7
Isolation [dB] (0.5 to < 0.8 GHz)	>12
Isolation [dB] (0.8 to 6.4 GHz)	> 20
Isolation [dB] (> 6.4 to 7 GHz)	>14
Input (Common Port) Return Loss [dB]	<-17
Output Return Loss [dB]	<-18
Maximum Power as Splitter [Watts]	> 20*
Maximum Power as Combiner [Watts], In-Phase signals	> 20*
Maximum Power as Combiner [mWatts], Anti-Phase signals	= 50 **
Phase Unbalance to 6 GHz [degrees]	+/- 1.0
Amplitude Unbalance to 6 GHz [dB]	+/- 0.1
Operating Temperature Range [degrees C]	-55 to 125
Mass [grams]	<1.1
* 20 watts is a test setup limitation NOT a device limitation (CW fr	requency of 3.55 GHz)

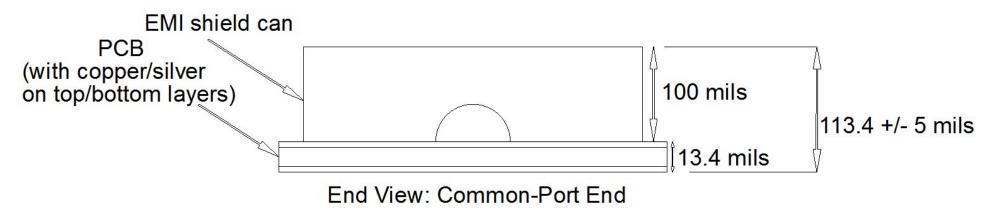


Mechanical Dimensions, Bottom View:

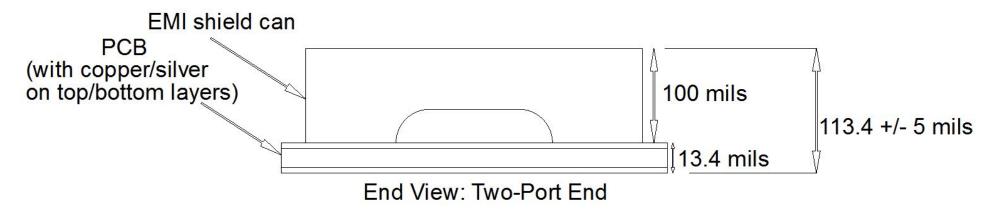


BroadBand Transmission Line, BBTLine, LLC. 10907 NE 133rd St., Kirkland, WA 98034. 425-273-3712. https://bbt-line.com/

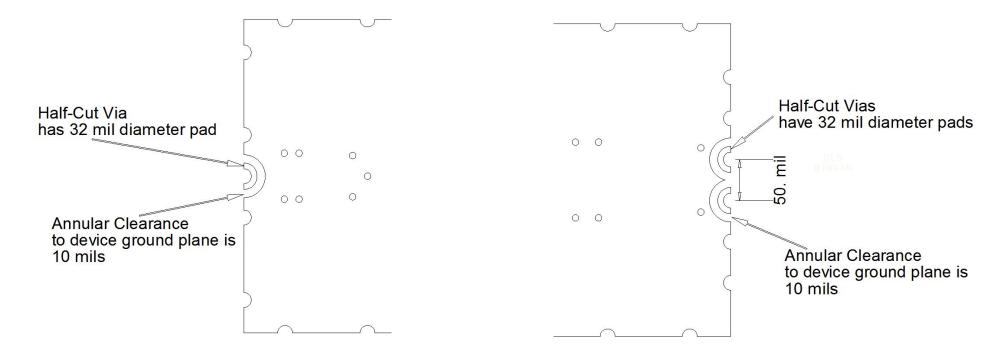
Mechanical Dimensions, Common Port End View (board vias are not shown):



Mechanical Dimensions, Two-Port End View (board vias are not shown):



Mechanical Dimensions, Zoom-In On Device Signal Via Details:



An Evaluation Board with Male SMP Smooth-Bore connectors is available:

