



2-Way RF Power Divider - SMP Connectors - Broadband - BBTLine

Splitter Features:

- **BroadBand - 0.5 GHz to 7 GHz**
- **Low Loss - Less Than 0.9 dB at 6 GHz**
- **Excellent Amplitude/Phase Balance - 0.1 dB/1 Degree At 6 GHz**
- **High Power - Greater Than 20 Watts As A Splitter**
- **Male SMP Smooth Bore Connectors (X3)**

Part Number:

BBTLine_2Way_SMP

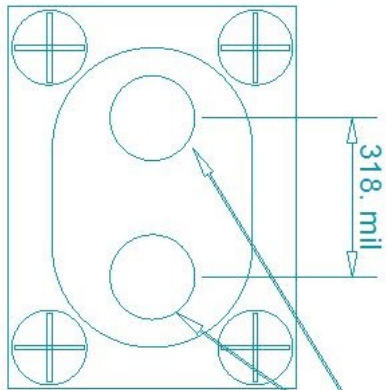
Description:

Shown below is a Patented (U.S. Patent 9,570,792) Broadband 2-Way RF Power Divider with Male SMP Smooth Bore Connectors. 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 (as a splitter).



Mechanical Dimensions:

End View

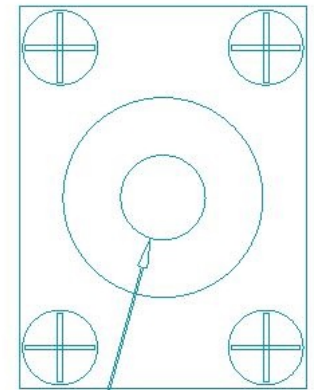


SMP
(smooth bore)

Top View

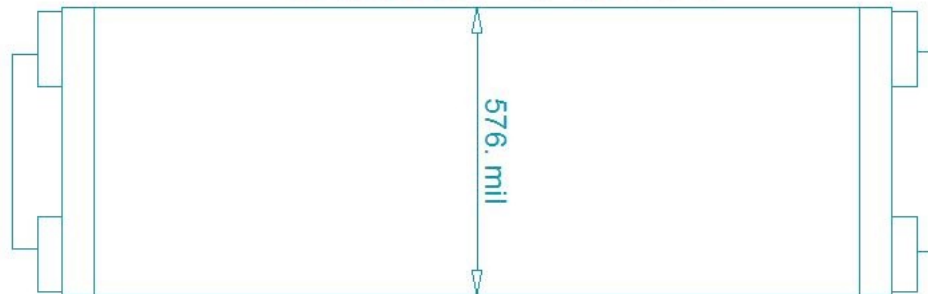


End View



SMP
(smooth bore)

Side View



RF Specifications:

Specifications (at Room Temperature):	
Frequency Range [GHz]	0.5 to 7
Insertion Loss [dB] @ 6 GHz	< 0.9
Isolation [dB] (0.5 to < 1 GHz)	> 12
Isolation [dB] (1 to 6.4 GHz)	> 19
Isolation [dB] (6.5 to 7 GHz)	> 15
Input (Common Port) Return Loss [dB] (0.8 to 6.6 GHz)	< -19
Output Return Loss [dB]	< -20
Maximum Power as Splitter [Watts]	> 20*
Maximum Power as Combiner [Watts], Same-Frequency/In-Phase signals	> 20*
Maximum Power as Combiner [mWatts], Same-Frequency/Anti-Phase signals	= 50 **
Phase Unbalance [degrees]	< +/- 1
Amplitude Unbalance [dB]	< +/- 0.1
Operating Temperature Range [degrees C]	-55 to 125
Mass [grams]	< 75
* 20 watts is a test setup limitation NOT a device limitation (tested at CW frequency of 3.55 GHz)	
** internal 0201 isolation resistor worst-case limitation (when combining Same-Frequency/perfectly-Anti-Phase signals)	

Typical RF Performance:

