# 8-Way RF Splitter Comparison - 8_Way_V2_SMT Versus MiniCircuits SEPS-8-272+

## This is a comparison of two 8-Way Surface Mount RF Splitters/Combiners - BBTLine's "BBTLine_8Way_V2_SMT" and MiniCircuits "SEPS-8-272+"

The MiniCircuits Splitter has a bandwidth running from 700 MHz to **2700 MHz**.

The BBTLine Splitter has a bandwidth running from 500 MHz to **7 GHz**
(data is truncated in the plots below in order to compare against the lower bandwidth SEPS-8-272+).

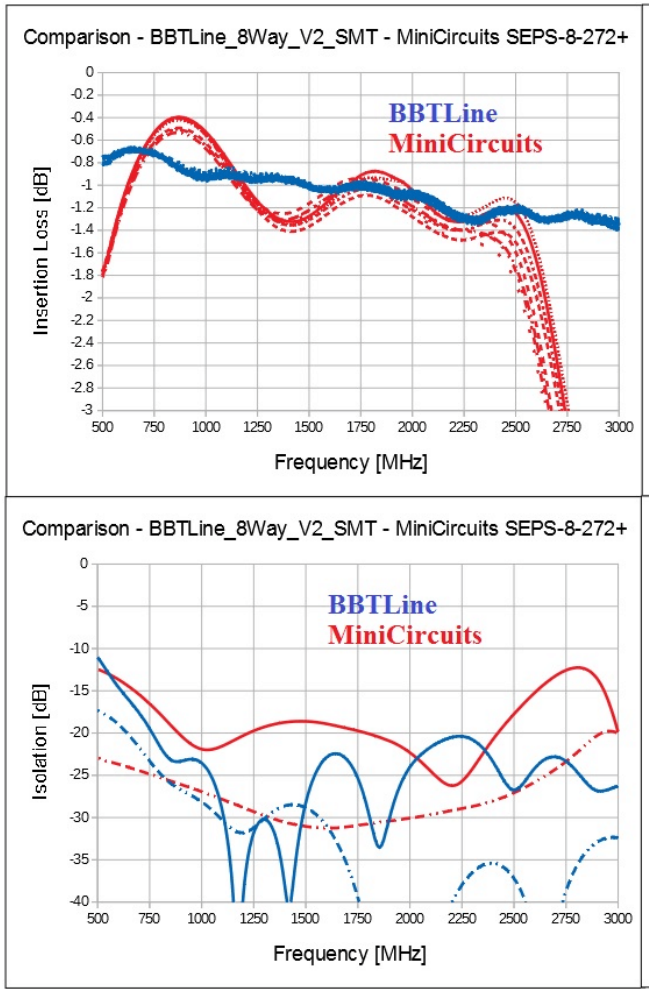
The "**SEPS-8-272+**" Maximum Power Rating is **5 Watts**.

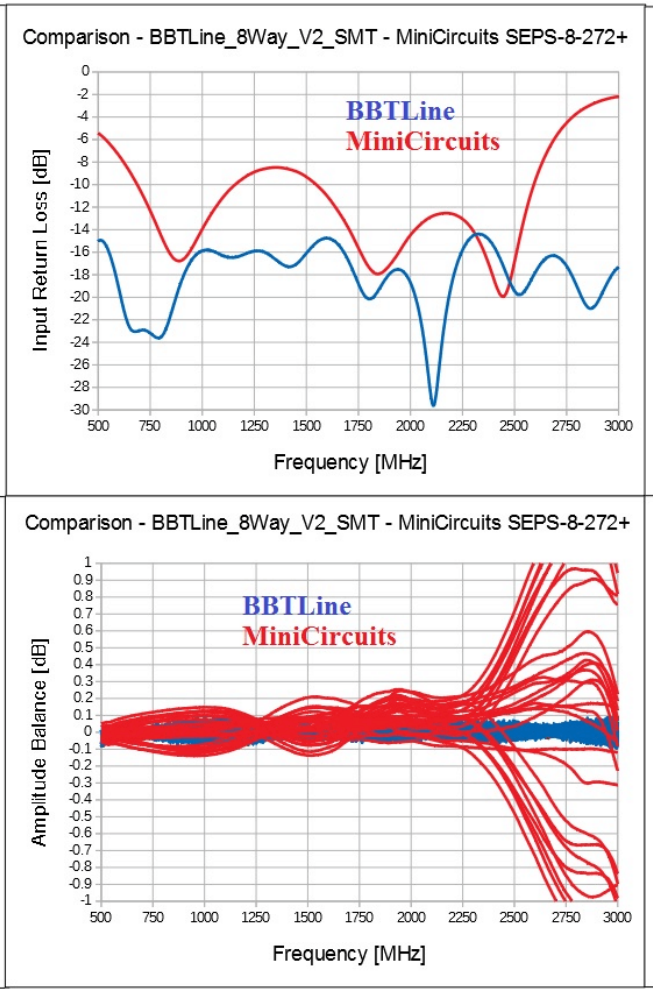
The "**BBTLine_8Way_V2_SMT**" Maximum Power Rating is **Greater Than 20 Watts**.

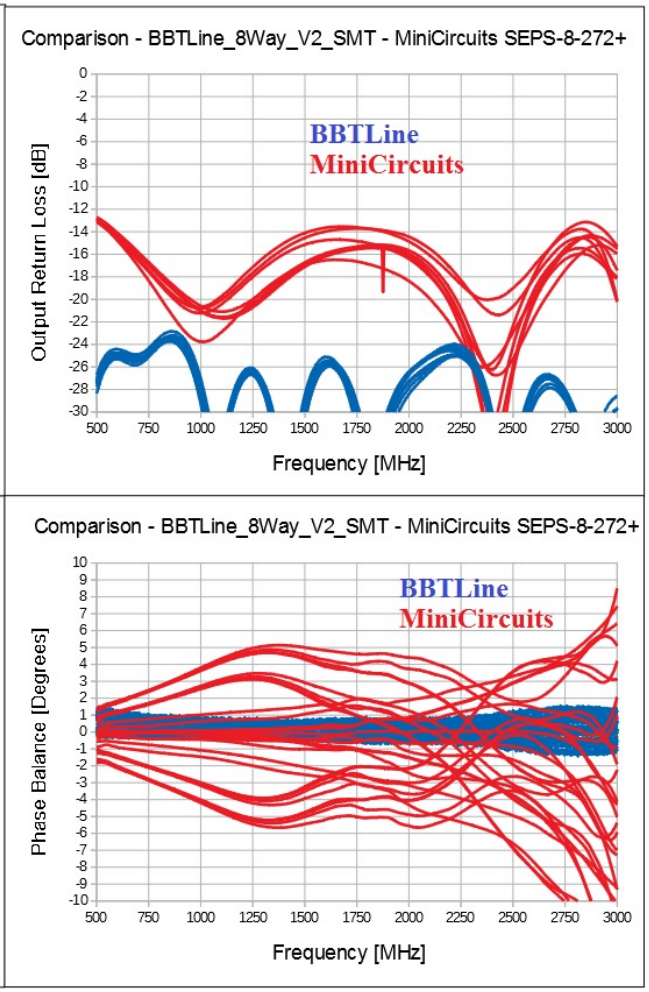
S-Parameter data below is plotted from 500 MHz to 3000 MHz. S-Parameter Measurement Data shows Insertion Loss, Input Return Loss, Output Return Loss, Isolation (Best and Worst for Near And Far Ports), Amplitude Balance, and Phase Balance.

As shown by the S-Parameter data plotted below, the BBTLine 8-Way Power Divider performs significantly better than the MiniCircuits Device.

This improved RF performance, along with the much higher RF Power Rating, yields a high performance RF Power Divider for the market.


Comparison - BBTLine_8Way_V2_SMT - MiniCircuits SEPS-8-272+
BBTLine
MiniCircuits
Insertion Loss [dB]
Frequency [MHz]


Comparison - BBTLine_8Way_V2_SMT - MiniCircuits SEPS-8-272+
BBTLine
MiniCircuits
Input Return Loss [dB]
Frequency [MHz]


Comparison - BBTLine_8Way_V2_SMT - MiniCircuits SEPS-8-272+
BBTLine
MiniCircuits
Output Return Loss [dB]
Frequency [MHz]


Comparison - BBTLine_8Way_V2_SMT - MiniCircuits SEPS-8-272+
BBTLine
MiniCircuits
Isolation [dB]
Frequency [MHz]


Comparison - BBTLine_8Way_V2_SMT - MiniCircuits SEPS-8-272+
BBTLine
MiniCircuits
Amplitude Balance [dB]
Frequency [MHz]


Comparison - BBTLine_8Way_V2_SMT - MiniCircuits SEPS-8-272+
BBTLine
MiniCircuits
Phase Balance [Degrees]
Frequency [MHz]