



ZT-10HPS-272+ 700-2700 MHz High Power (100W)* 10-Way Splitter Module

Functional Description

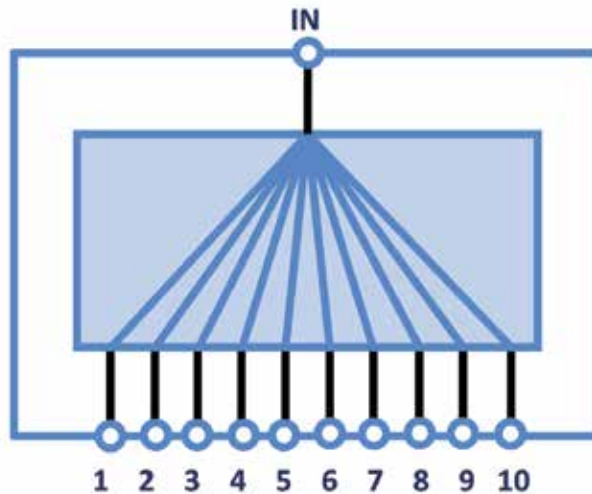
ZT-10HPS-272+ is a passive splitter design enabling high power signal distribution in an RF test environment. The input power rating of 100 W allows the system designer to overcome the inherent splitter losses in a multi-path distribution system and still deliver a test signal to 10 separate outputs at over 5 W per path. The specified operating bandwidth covers all the key telecoms bands up to 2.7 GHz. Mini-Circuits has a range of complimentary power amplifiers capable of delivering up to 100 W into this splitter.

Electrical Performance (Per Path)

| PARAMETER | SPECIFICATIONS | | | |
|----------------------|----------------|------|------|------|
| | Unit | Min. | Typ. | Max. |
| Operating Frequency | MHz | 700 | - | 2700 |
| RF Input Power | W | - | - | 100 |
| Insertion Loss | dB | - | 11.0 | 12.5 |
| Amplitude Unbalance | dB | - | 0.7 | 1.0 |
| Isolation | dB | 20 | - | - |
| Return Loss (Input) | dB | 18 | - | - |
| Return Loss (Output) | dB | 18 | - | - |

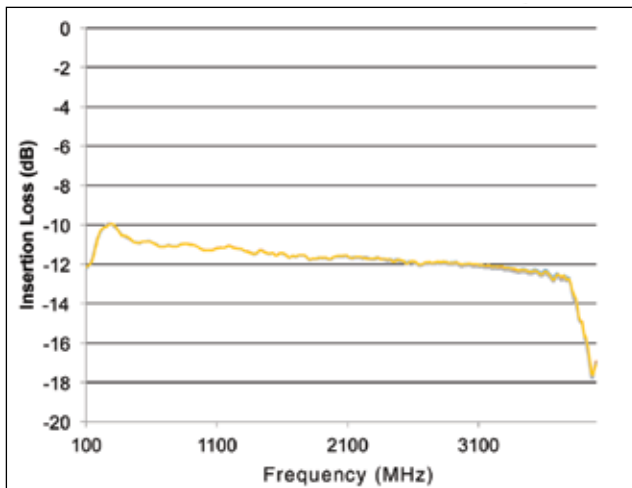
*External heat sinking required

Functional Schematic



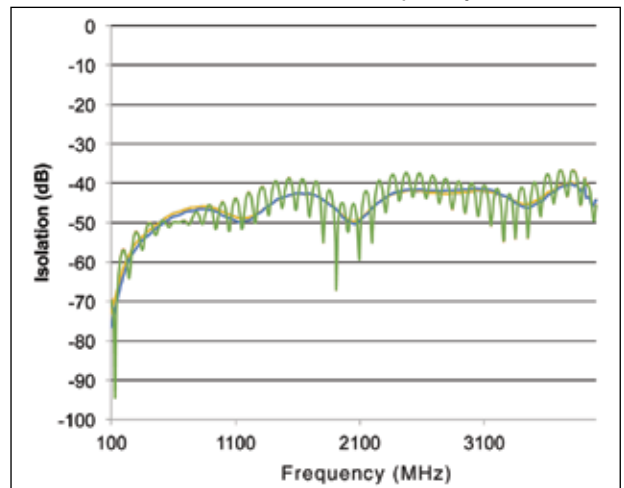
ZT-10HPS-272+ Curves

Insertion Loss Vs. Frequency



— Input to Port 6 — Input to Port 8
— Input to Port 7 — Input to Port 9

Isolation Vs. Frequency



— Port 1 to Port 7 — Port 2 to Port 10
— Port 1 to Port 8 — Port 2 to Port 3
— Port 1 to Port 9 — Port 2 to Port 4