

50Ω 700-2700 MHz, 100W



## Features

- 100 W input power rating, ideal for high power burn-in
- 10-way split, for multi-channel test systems
- Wide bandwidth, covering major telecoms bands
- Integrated cooling

## Applications

- Burn-in testing for SAW filters and MMIC qualification process
- 80 channels HTOL test system
- Wireless module testing

## Product Overview

ZT-10HPS-272+ is a passive power splitter system enabling high power signal distribution in an RF test environment. The input power rating of 100 W allows the system designer to overcome the passive splitter losses in a multi-path distribution system and still deliver a test signal to 10 separate outputs at 6W per path. The specified operating bandwidth covers the key telecoms bands up to 2.7 GHz. This splitter is ideal for use with Mini-Circuits' HPA-272+ 100W high power amplifiers in HTOL test systems.

## Mechanical Specifications

<b>Dimensions</b>	19" (W) x 2U (H) x 16" (D)			
<b>Case Drawing</b>	99-01-2129			
<b>Case Material</b>	Aluminum (with protective coating to prevent corrosion)			
<b>RF Connectors</b>	<b>Panel</b>	<b>Connector</b>	<b>Quantity</b>	<b>Port Labels</b>
	Front	N-type female	1	INPUT
	Front	SMA female	10	1 - 10
<b>Panel Items</b>	<b>Front Panel</b>			<b>Rear Panel</b>
<b>Panel Marking</b>	<ul style="list-style-type: none"> <li>• Model Name</li> <li>• 1 x 20 High Power Splitter</li> <li>• Input power warning label</li> </ul>			
<b>Connectors</b>				<ul style="list-style-type: none"> <li>• AC mains power input (IEC C14 inlet)</li> </ul>
<b>Other</b>	<ul style="list-style-type: none"> <li>• Power on / off switch with LED</li> <li>• Carry handles</li> </ul>			<ul style="list-style-type: none"> <li>• Cooling fan</li> </ul>
<b>Power Supply</b>	AC mains (90-260 V, 47-63 Hz)			
<b>Fuse</b>	2A, 250V rating			
<b>Temperature</b>	Operating: 0 to +40 °C			

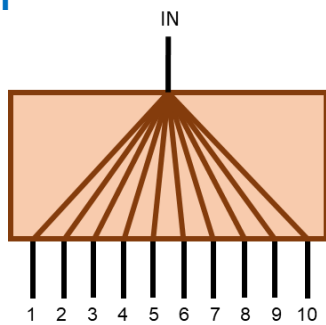
**Electrical Specifications at 25°C**

Parameter	Min	Typ	Max	Units
Operating Frequency	700		2700	MHz
Input Power <sup>1,2</sup>			100	W
Insertion Loss		11.5	12.5	dB
Amplitude Unbalance		0.4	1.0	dB
Isolation	16	25		dB
VSWR (Input)		1.3:1		dB
VSWR (Output)		1.25:1		dB

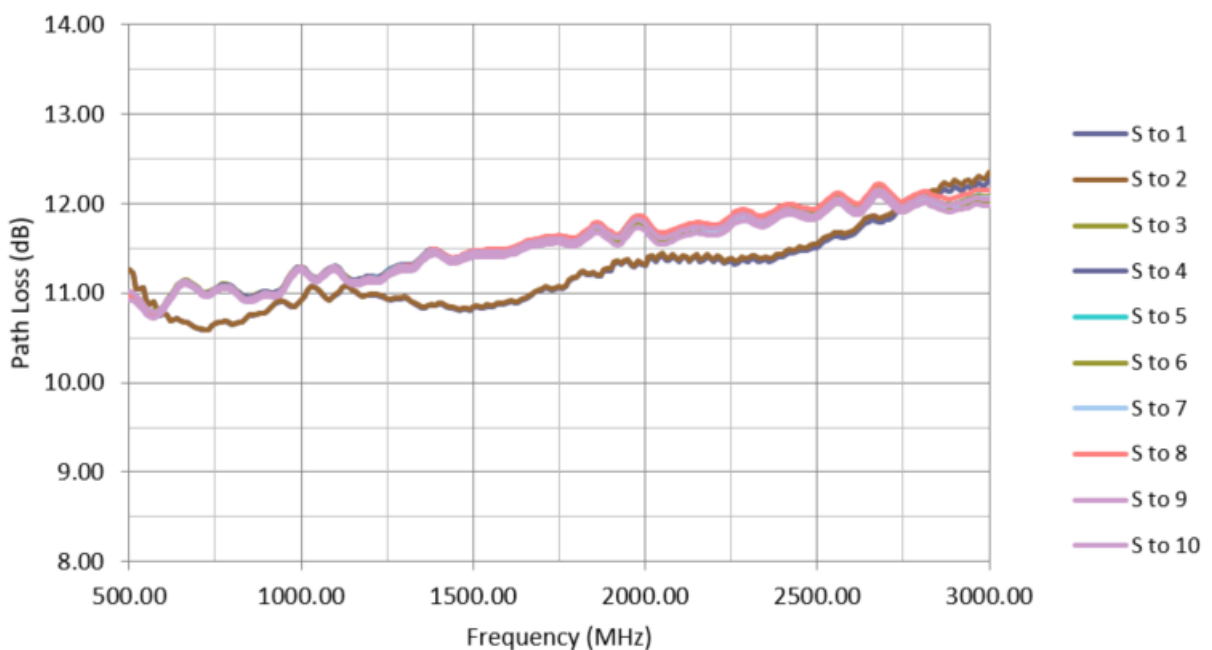
<sup>1</sup> All output ports (including unused ports) must be terminated in 50Ω when operating with input power greater than 10 W

<sup>2</sup> Power supply must be connected and powered on by the front panel hardware switch at all times when an input signal is present

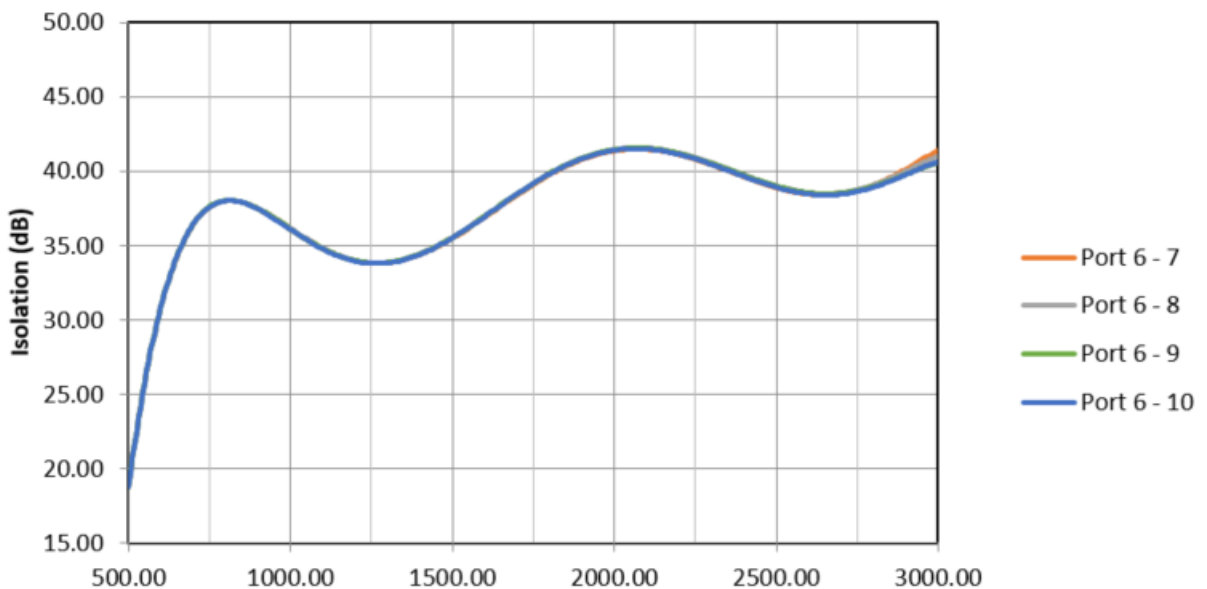
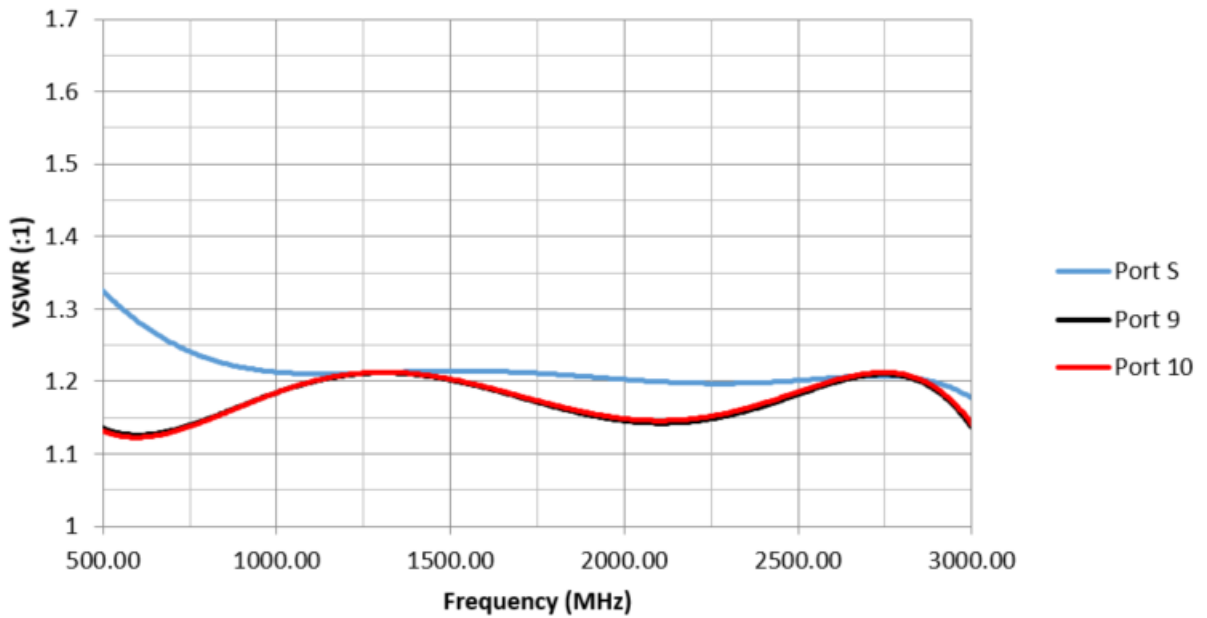
**Functional Block Diagram**



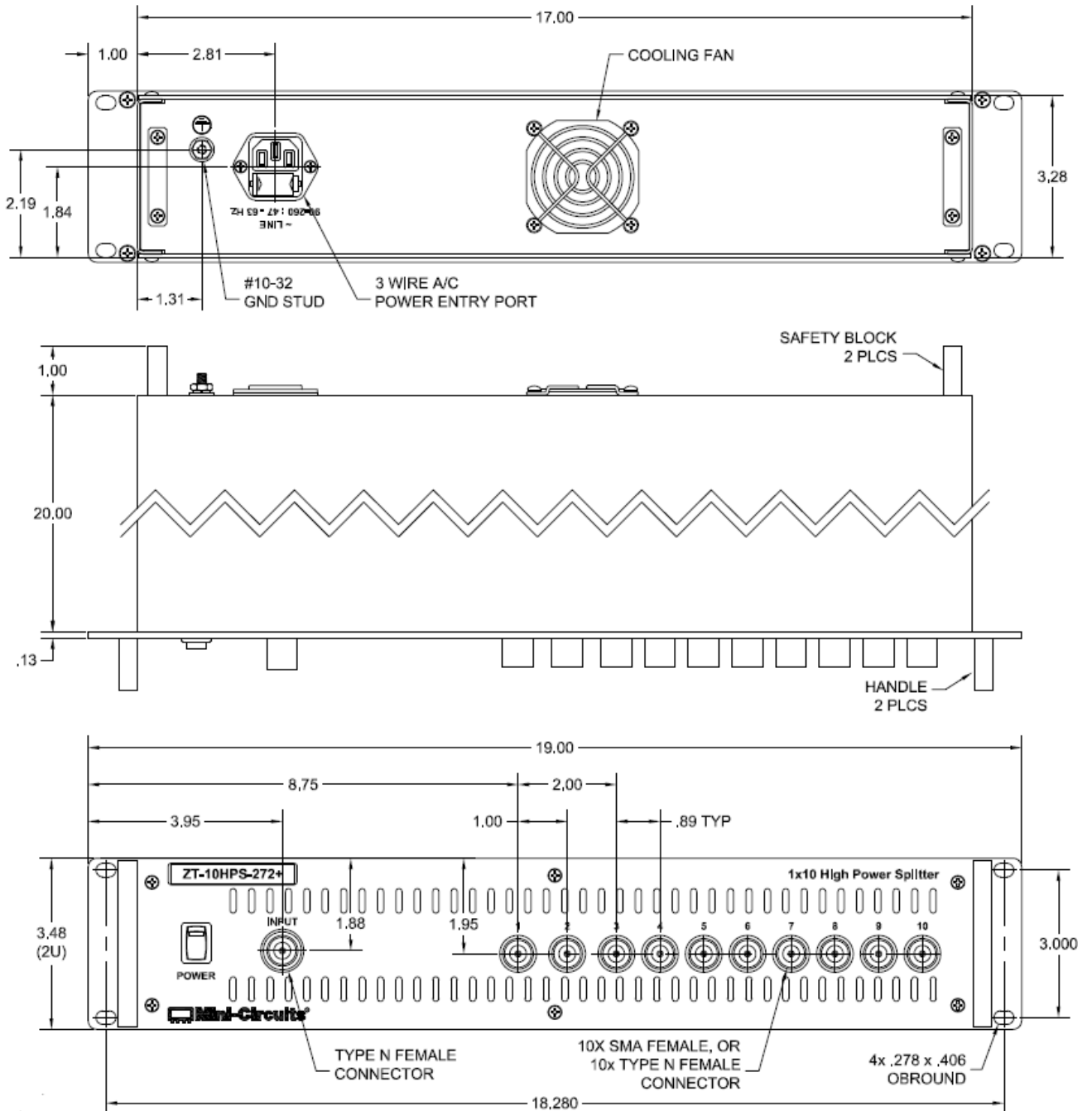
**Typical Performance Data**



## Typical Performance



**Outline Drawing**



## Ordering Information

Please contact Mini-Circuits' Test Solutions department for price and availability:

[testsolutions@minicircuits.com](mailto:testsolutions@minicircuits.com)

## Included Accessories

Model Name	Quantity	Description
CBL-3W-xx*	1	AC power cord (IEC C13 connector to local plug)
HT-4-SMA	1	SMA Cable Wrench (4 in)

Cable Model	Region
CBL-3W-US	USA
CBL-3W-EU	Europe
CBL-3W-IL	Israel
CBL-3W-UK	UK
CBL-3W-AU	Australia / China

\*Please specify one option on the purchase order, at no charge

### Additional Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at [www.minicircuits.com/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp)