

50Ω 2500-6000 MHz, 100W



Features

- 100 W input power rating, ideal for high power burn-in
- 20-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-20HPS-63+ 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 20 separate outputs at more than 2W per path. The specified operating bandwidth covers the key telecoms bands from 2.5 to 6 GHz. This splitter is ideal for use with Mini-Circuits' HPA-100W-63+ 100W high power amplifiers in HTOL test systems.

Mechanical Specifications

Dimensions	19" (W) x 2U (H) x 16" (D)			
Case Drawing	99-01-2594			
Case Material	Aluminum (with protective coating to prevent corrosion)			
RF Connectors	Panel	Connector	Quantity	Port Labels
	Front	N-type female	1	IN
	Front	SMA female	20	1 - 20
Panel Items	Front Panel			Rear Panel
Panel Marking	<ul style="list-style-type: none"> • Model Name • 1 x 20 100W Power Splitter • 2500 - 6000 MHz • Input power warning label 			
Connectors				<ul style="list-style-type: none"> • AC mains power input (IEC C14 inlet)
Other	<ul style="list-style-type: none"> • Power on / off switch with LED • Carry handles 			<ul style="list-style-type: none"> • Cooling fan
Power Supply	AC mains (90-260 V, 47-63 Hz)			
Fuse	2A, 250V rating			
Temperature	Operating: 0 to +40 °C			

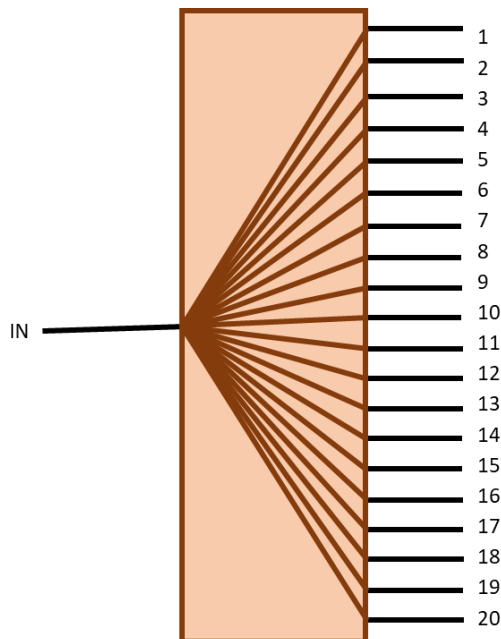
Electrical Specifications at 25°C

Parameter	Min	Typ	Max	Units
Operating Frequency	2500		6000	MHz
Input Power ^{1,2}			100	W
Insertion Loss		16	18	dB
Amplitude Unbalance		0.5		dB
Isolation		20		dB
Return Loss (Input)		15		dB
Return Loss (Output)		18		dB

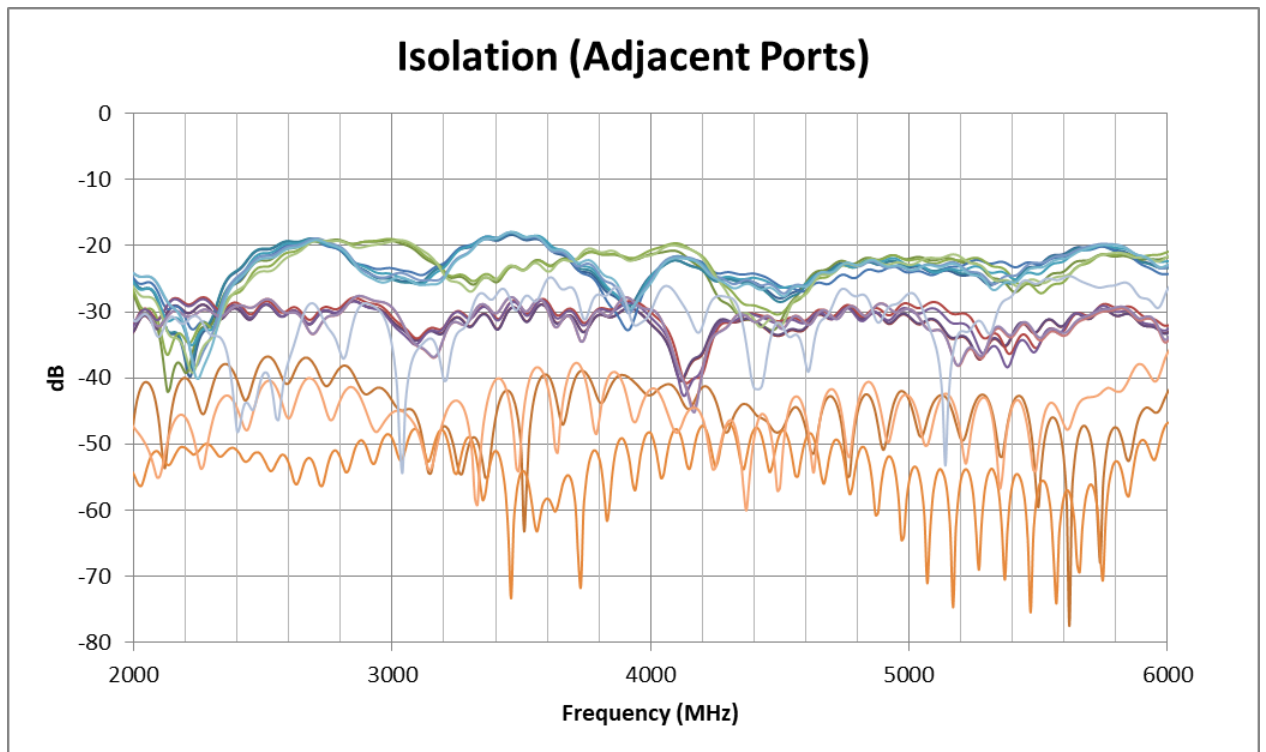
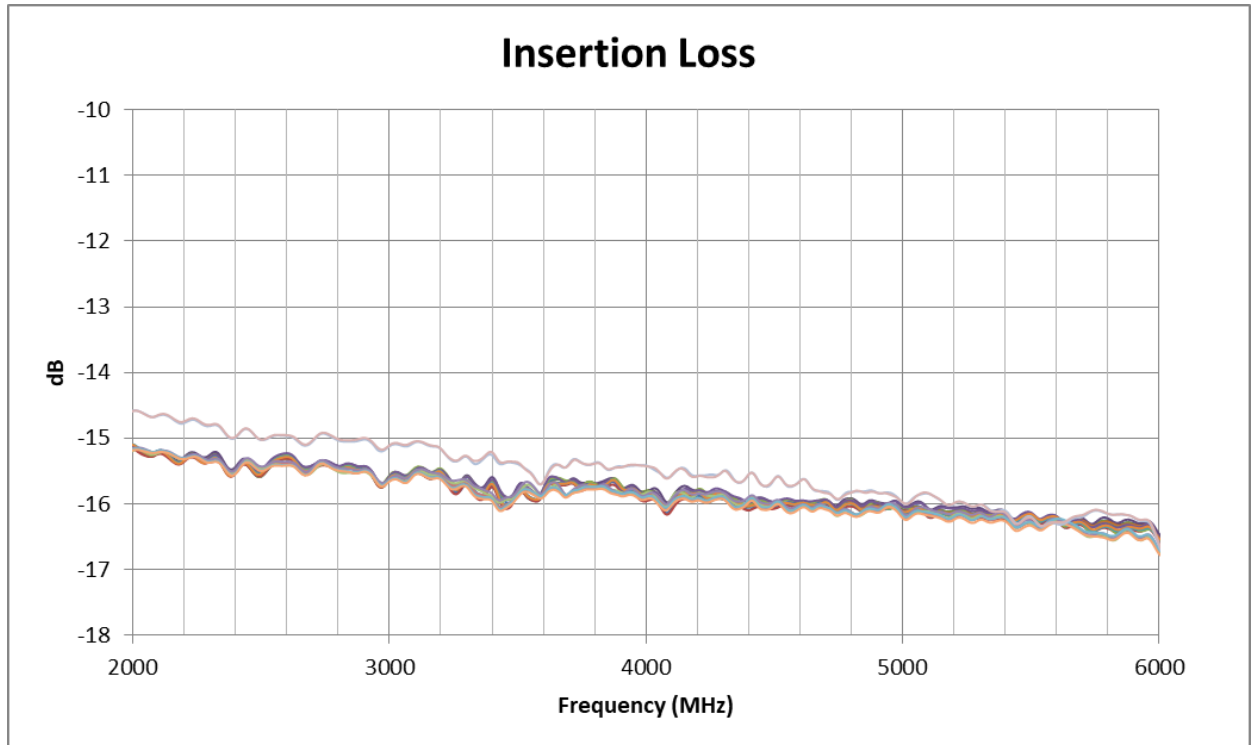
¹ All output ports (including unused ports) must be terminated in 50Ω when operating with input power greater than 10 W

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

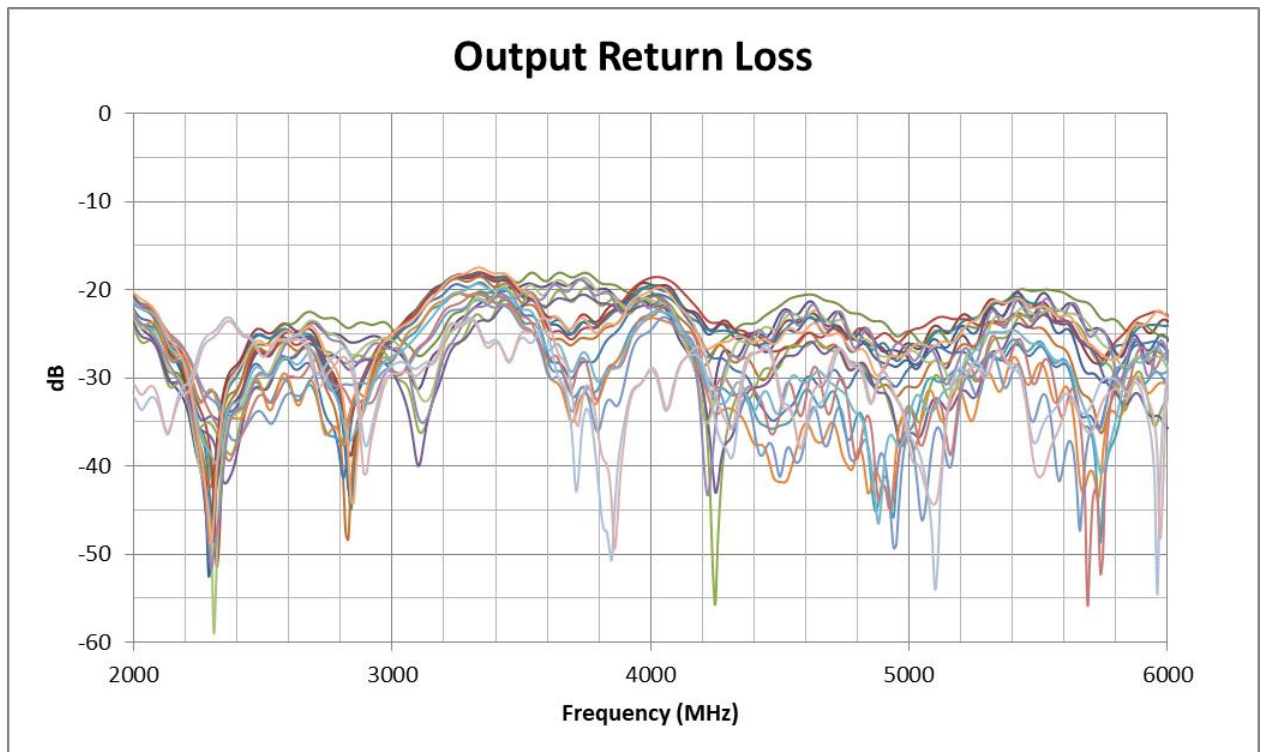
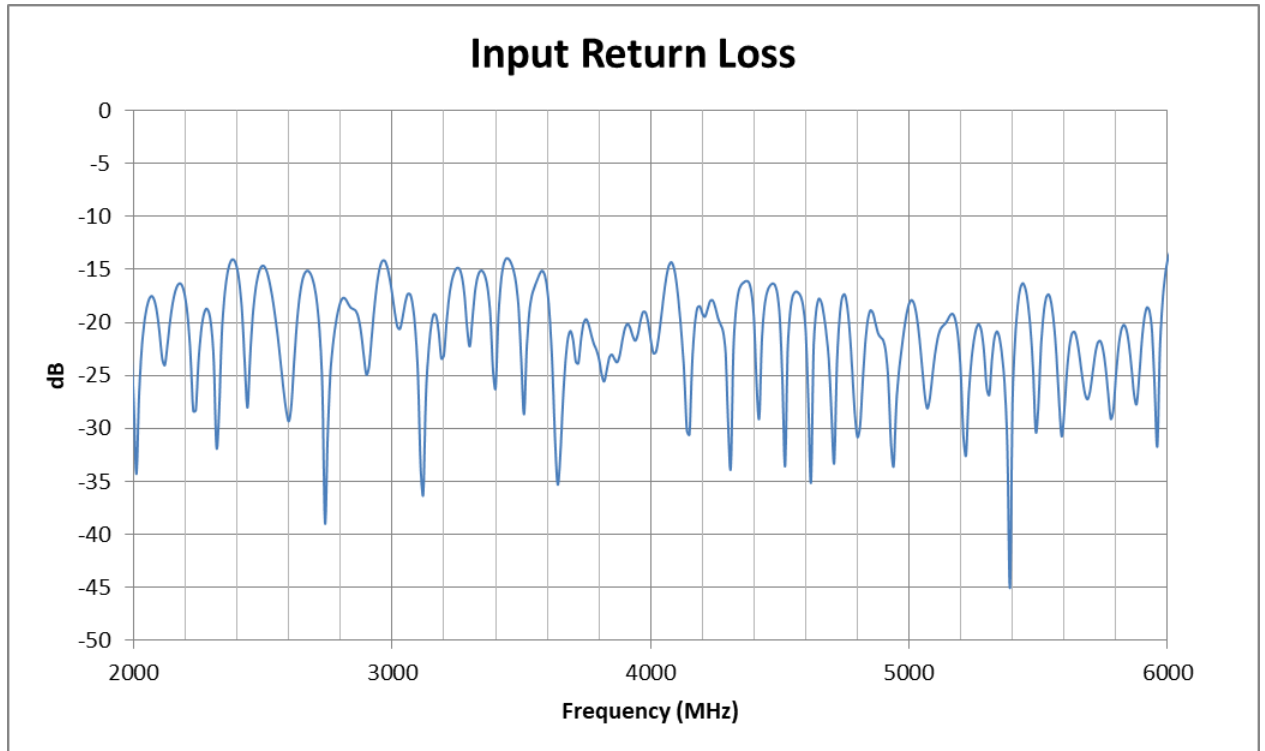
Functional Block Diagram



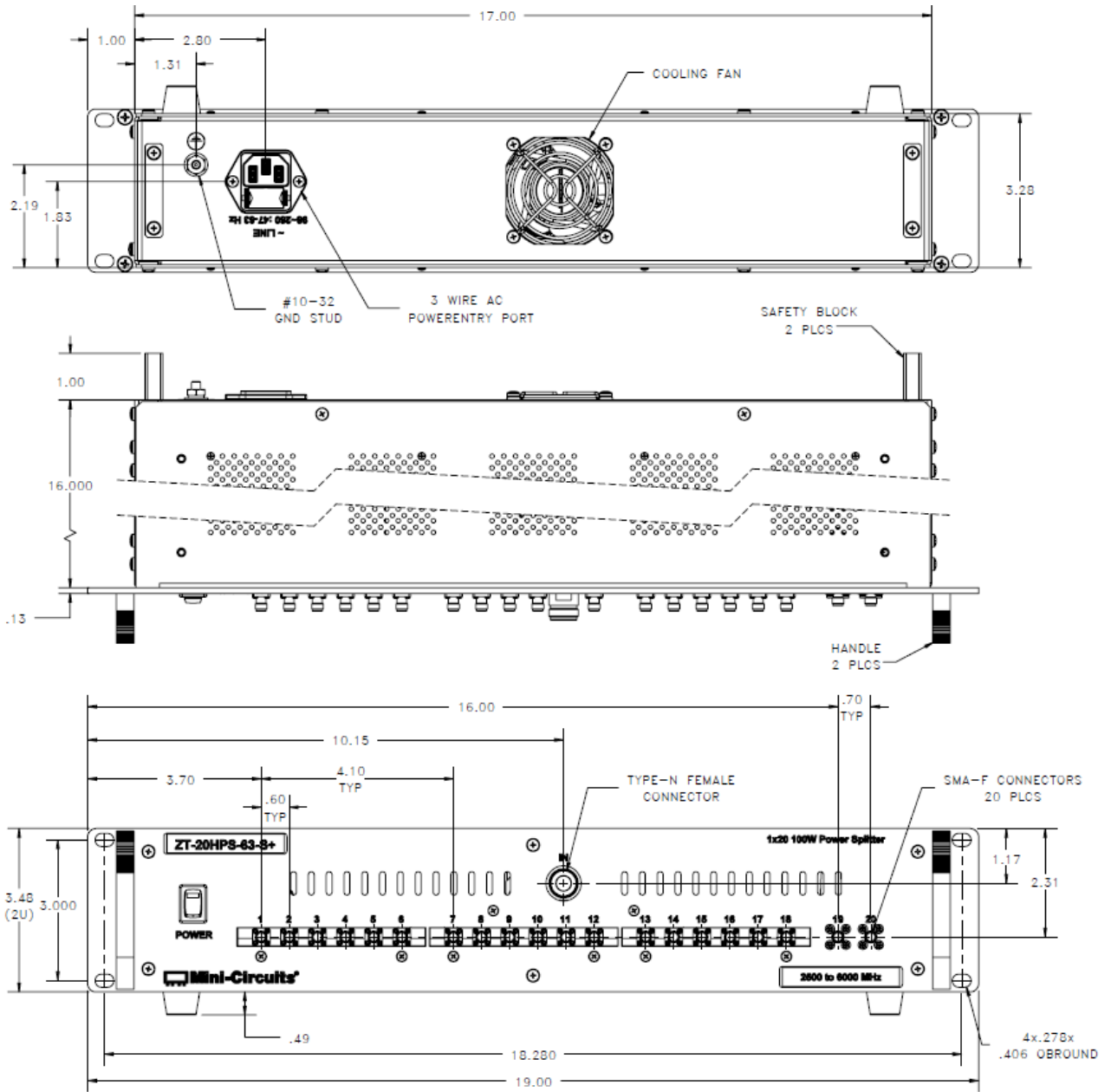
Typical Performance Data



Typical Performance Data



Outline Drawing



Ordering Information

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

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