



RACK-MOUNTED | HIGH POWER

20-Way Power Splitter ZT-20HPS-63-S+

50Ω 2.5 to 6 GHz 100W

THE BIG DEAL

- High input power rating
- Rack-mounted chassis
- Wide bandwidth
- Integrated cooling



Model Name	ZT-20HPS-63-S+
Case Style	YQ2594
Connectors	N-type female (In) SMA female (1-20)

Refer to our website for compliance methodologies and qualifications



APPLICATIONS

- Benchtop and rack mounted automated test systems
- High power burn-in tests
- High temperature operating life test (HTOL)
- Active & passive component characterization

PRODUCT OVERVIEW

ZT-20HPS-63+ is a passive RF power splitter 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 worldwide 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.

ELECTRICAL SPECIFICATIONS @ 25°C^{1,2}

Parameter	Condition	Min.	Typ.	Max.	Unit
Frequency Range		2.5		6	GHz
Insertion Loss			16.5	19.5	dB
Amplitude Unbalance			0.5		dB
Isolation	Between output ports	16	20		dB
Return Loss	In		15		dB
	1-20		18		
Input Power ² As Splitter	2.5 – 3.6 GHz			100	W
	3.6 – 6 GHz			50	

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

² AC mains power supply must be connected and powered on by the front panel hardware switch whenever an RF input signal is present





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ABSOLUTE MAXIMUM RATINGS

Parameter	Ratings
Operating Temperature	0°C to 50°C
Storage Temperature	-15°C to 85°C
Supply Voltage	260 Vac

MECHANICAL SPECIFICATIONS

Dimensions	19" (W) x 2U (H) x 13" (D)			
Case Drawing	YQ2594			
Weight	6.4 kg			
Case Material	Aluminum (with protective coating to prevent corrosion)			
RF Connectors	Panel	Connector	Quantity	Port Labels
	Front	N-type female	1	In
		SMA female	20	1-20
	Front Panel	Rear Panel		
Panel Marking	<ul style="list-style-type: none"> ZT-20HPS-63-S+ 1x20 100W Power Splitter 2500-6000 MHz 	<ul style="list-style-type: none"> CE / UKCA Serial number / date code / model name 		
Panel Items	<ul style="list-style-type: none"> Power on / off switch with LED Carry handles 	<ul style="list-style-type: none"> AC mains power input (IEC C14 inlet) Cooling fan vent 		
Power Supply	AC mains power input (90-260 V, 47-63 Hz)			
Fuse	2A, 250V rating			
Power Consumption	10W typ			
Temperature	Operating: 0 to +50 °C			

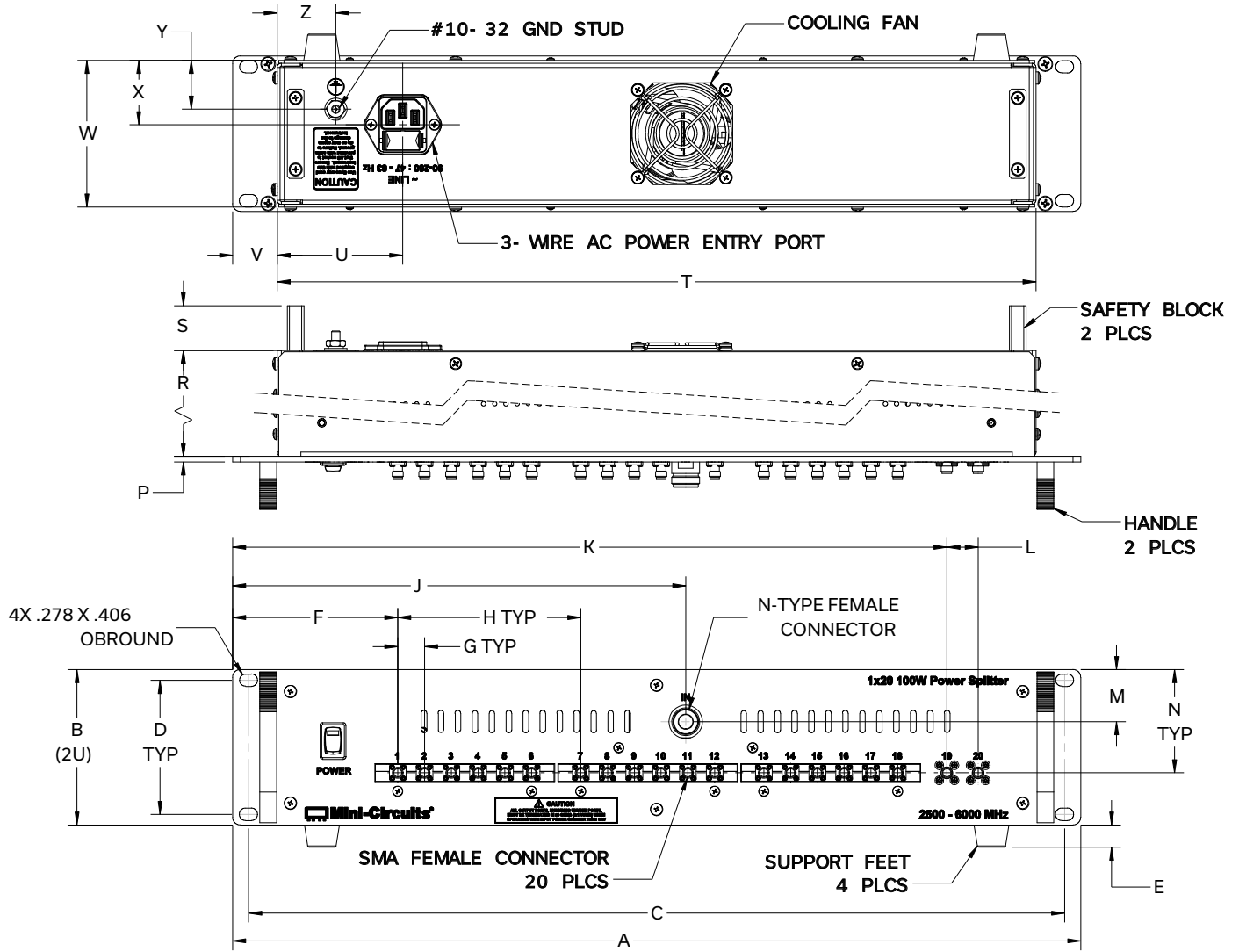


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OUTLINE DRAWING



OUTLINE DIMENSIONS (Inch mm)

CASE#	A	B	C	D	E	F	G	H	J	K	L	M	N	P
YQ2594	19.00 (482.6)	3.48 (88.4)	18.280 (464.31)	3.000 (76.20)	.49 (12.5)	3.70 (94.0)	.60 (15.2)	4.10 (104.1)	10.15 (257.8)	16.00 (406.4)	.70 (17.8)	1.17 (29.6)	2.31 (58.7)	.13 (3.2)
R	S	T	U	V	W	X	Y	Z	WT. GRAMS					
13.00 (330.2)	1.00 (25.4)	17.00 (431.8)	2.81 (71.4)	1.00 (25.4)	3.28 (83.4)	1.44 (36.6)	1.09 (27.7)	1.31 (33.3)	6360					

Dimensions are in inches (mm). Tolerances: 2 Pl. ±.03; 3 Pl. ±.015





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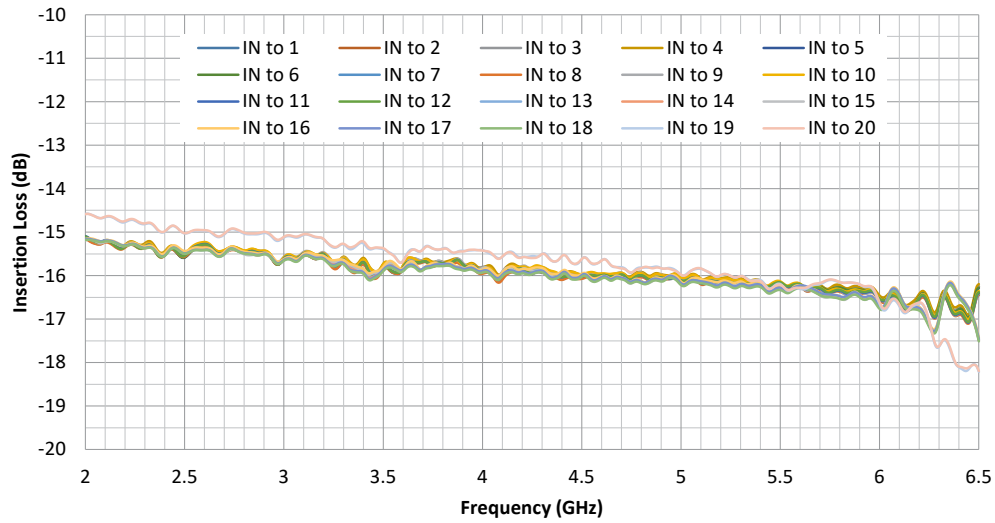
20-Way Power Splitter ZT-20HPS-63-S+

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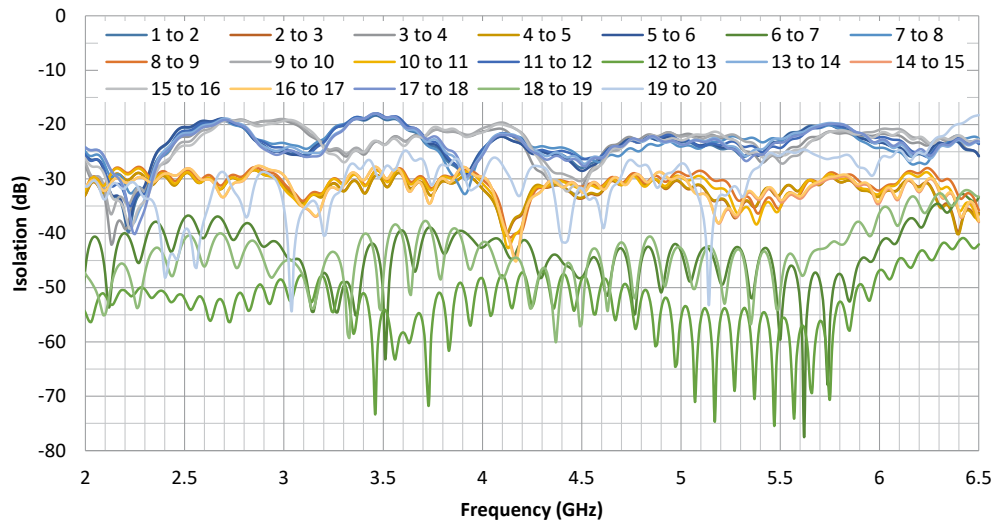
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TYPICAL PERFORMANCE CURVES

Insertion Loss



Isolation (Adjacent Ports)





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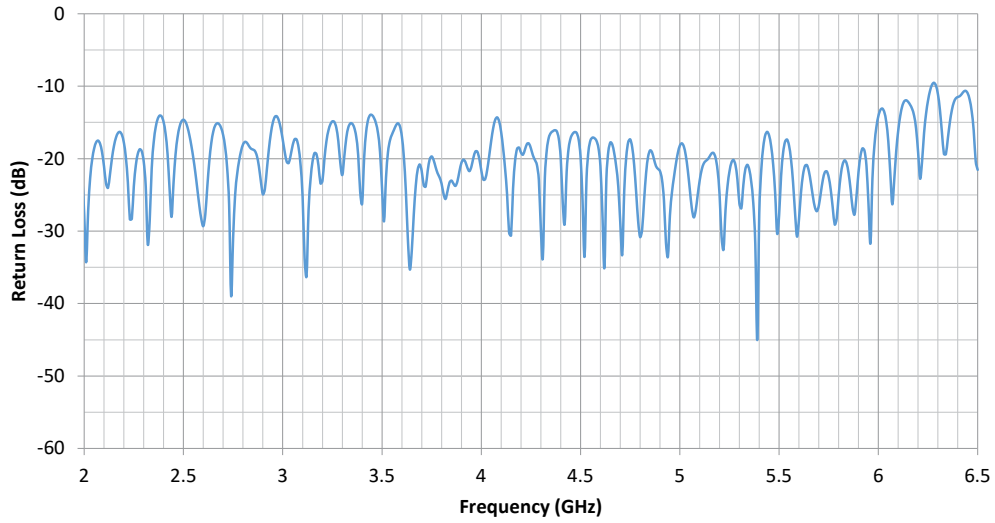
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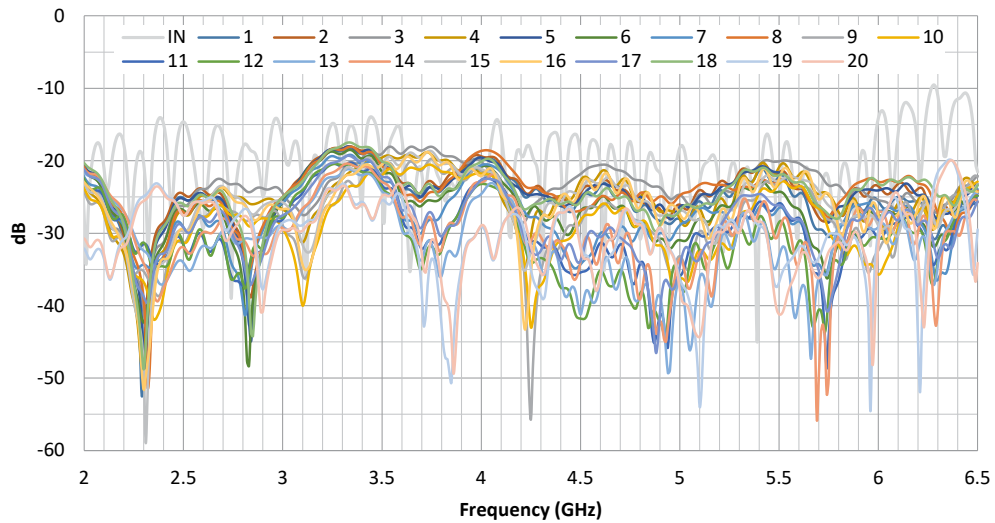
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TYPICAL PERFORMANCE DATA

Input Return Loss



Output Return Loss





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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)

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

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

- NOTES**
- A. 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.
 - B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
 - C. 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/terms/viewterm.html

