

20-Way Power Splitter **zт-20нрs-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)	



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.	Тур.	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		.ID
Return Loss	1-20		18		dB
Input Power ²	2.5 – 3.6 GHz	2.5 – 3.6 GHz		100	W
As Splitter	3.6 – 6 GHz			50	VV

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

REV. A ECO-016241 ZT-20HPS-63-S+ MCL NY 221221



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



20-Way Power Splitter **zт-20HPS-63-S+**

50Ω 2.5 to 6 GHz 100W

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

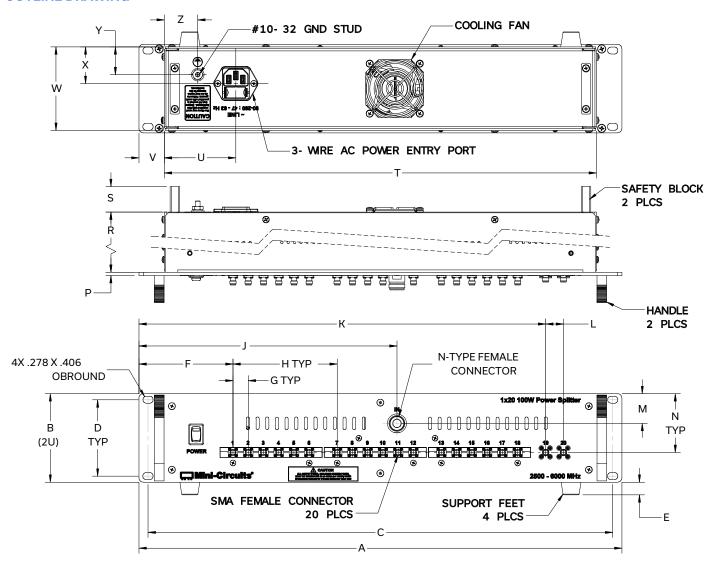
1				
19" (W) x 2U (H) x 13" (D)				
YQ2594				
6.4 kg				
Aluminum (with protective coating to	prevent corrosion)			
Panel	Connector Quantity		Port Labels	
Front	N-type female	1	In	
	SMA female	20	1-20	
Front Panel Rear Panel				
 ZT-20HPS-63-S+ 1x20 100W Power Splitter 2500-6000 MHz CE / UKCA Serial number / date code / model name 				
 Power on / off switch with LED Carry handles AC mains power input (IEC C14 inlet) Cooling fan vent 				
AC mains power input (90-260 V, 47-6	53 Hz)			
2A, 250V rating				
10W typ				
Operating: 0 to +50 °C				
	YQ2594 6.4 kg Aluminum (with protective coating to Panel Front Front Panel 2T-20HPS-63-S+ 1x20 100W Power Splitter 2500-6000 MHz Power on / off switch with LED Carry handles AC mains power input (90-260 V, 47-62) 2A, 250V rating 10W typ	YQ2594 6.4 kg Aluminum (with protective coating to prevent corrosion) Panel Connector N-type female SMA female Front Panel • ZT-20HPS-63-S+ • 1x20 100W Power Splitter • 2500-6000 MHz • Power on / off switch with LED • Carry handles AC mains power input (90-260 V, 47-63 Hz) 2A, 250V rating 10W typ	YQ2594 6.4 kg Aluminum (with protective coating to prevent corrosion) Panel Connector Quantity N-type female 1 SMA female 20 Front Panel Rear Panel 2T-20HPS-63-S+ 1x20 100W Power Splitter 2500-6000 MHz - Power on / off switch with LED - Carry handles - CE / UKCA - Serial number / date code / model name - AC mains power input (IEC C14 inlet) - Cooling fan vent AC mains power input (90-260 V, 47-63 Hz) 2A, 250V rating 10W typ	



20-Way Power Splitter zт-20HPS-63-S+

50Ω 2.5 to 6 GHz 100W

OUTLINE DRAWING



OUTLINE DIMENSIONS $\binom{lnch}{mm}$

CASE#	Α	В	С	D	E	F	G	Н	J	К	L	М	N	Р
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	Т	U	V	W	Х	Υ	Z	WT. GRAI	MS				
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

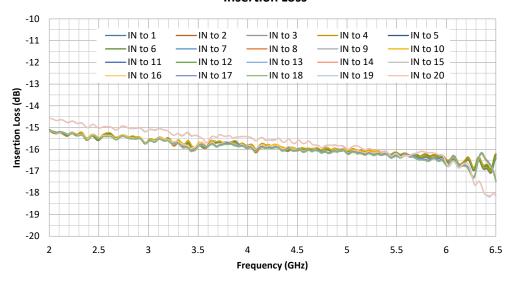


20-Way Power Splitter <mark>zт-20нрs-63-s+</mark>

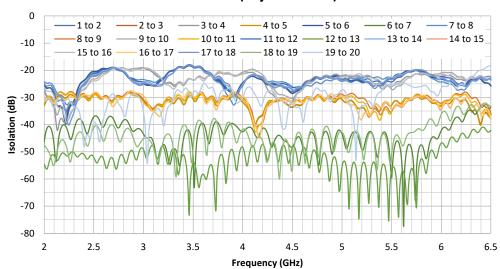
50Ω 2.5 to 6 GHz 100W

TYPICAL PERFORMANCE CURVES

Insertion Loss



Isolation (Adjacent Ports)





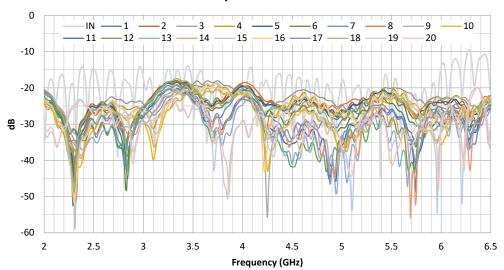
20-Way Power Splitter <mark>zт-20нрs-63-s+</mark>

 50Ω 2.5 to 6 GHz 100W

TYPICAL PERFORMANCE DATA



Output Return Loss





20-Way Power Splitter zт-20HPS-63-S+

50Ω 2.5 to 6 GHz 100W

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

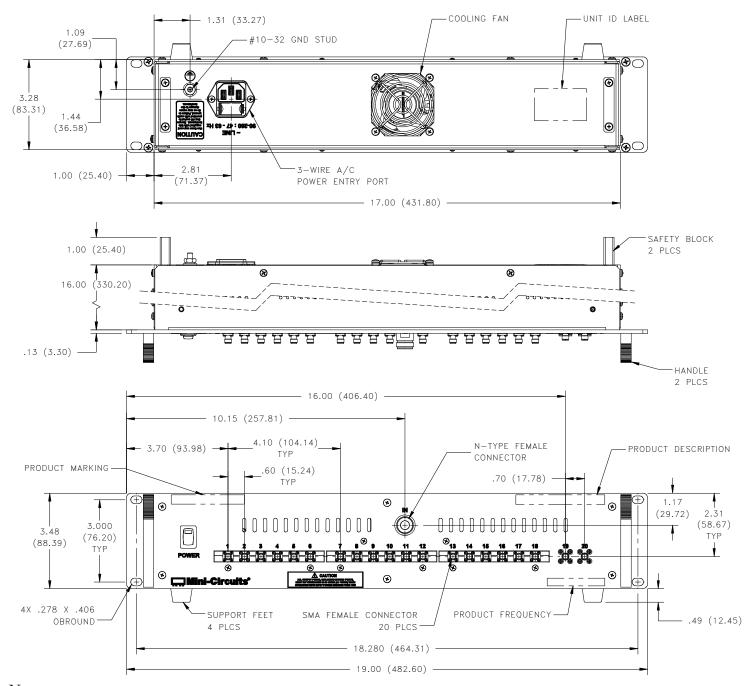


Case Style



Outline Dimensions

YQ2594



Notes:

- 1. Case material: Aluminum (with protective coating to prevent corrosion).
- 2. Dimensions are in inches (mm). Tolerances: 2 Pl. ±.03 inch; 3 Pl. ±.015 inch.
- 3. Weight: 6360 grams.
- 4. Marking may contain other features or characters for internal lot control.





P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site

The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS



Environmental Specifications

ENV56

All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-0° to 40° C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-15° to 85° C Ambient Environment	Individual Model Data Sheet
Operating and Storage Humidity	5% to 85% RH (non-condensing)	Ambient
Bench Handling Test	Bench Top Tip 45° & Drop	MIL-PRF-28800F
Transit Drop Test	Free Fall Drop, 20 cm (7.9 inches)	MIL-PRF-28800F Class 3

ENV56 Rev: B January 30, 2017 M160128 File: ENV56.pdf

This document and its contents are the property of Mini-Circuits