RACK-MOUNTED | HIGH POWER

16-Way Power Splitter ZT-16HPS-63W-S

50Ω 700 MHz to 6 GHz 100W

THE BIG DEAL

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

Model Name	ZT-16HPS-63W-S
Case Style	YQ2924
Connectors	N-type female (Input) SMA female (1-16)

Refer to our website for compliance methodologies and qualifications

CE UKCA

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

Mini-Circuits' ZT-16HPS-63W-S is a versatile high-power splitter operating up to 6 GHz. The flexible power split is configured through a series of passive 2-way and 4-way splitters, each mounted directly to the front panel to minimize insertion loss and maximize versatility. The system is designed to operate with 4 external cable connections as a 16-way passive power splitter with 100 W input power.

The splitter is housed in a compact 19-inch rack chassis, 2U height, with N-type input and 16 x SMA output ports all accessible from the front. The rack draws power from the rear panel AC input for integrated forced air (fan) cooling.

This system 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	Conditions	Min.	Typ.	Max.	Unit
Frequency Range		700		6000	MHz
Insertion Loss			14	17	dB
Isolation	Between output ports	18	23		dB
Return Loss	In 1-16		13 22		dB
Input Power[2] As Splitter	700 – 3600 MHz			100	W
	3600 – 6000 MHz			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

ABSOLUTE MAXIMUM RATINGS

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

REV. C
ECO-017641
ZT-16HPS-63W-S+
MCL NY
230428

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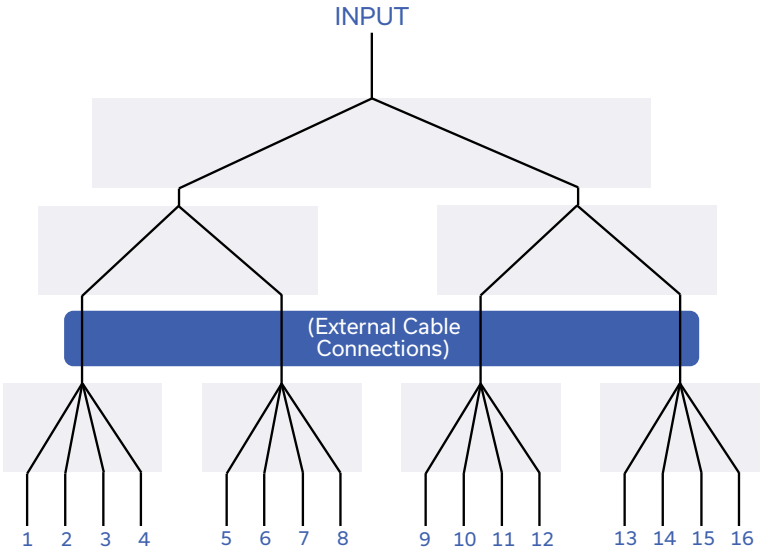
FUNCTIONAL BLOCK DIAGRAM



MECHANICAL SPECIFICATIONS

Dimensions	19" (W) x 2U (H) x 13" (D)			
Case Drawing	YQ2924			
Weight	4.7 kg			
Case Material	Aluminum (with protective coating to prevent corrosion)			
RF Connectors	**Panel**	**Connector**	**Quantity**	**Port Labels**
	Front	N-type female	1	Input
		SMA female	16	1-16
		SMA female	8	None (external cable interconnections)
	Front Panel	**Rear Panel**		
Panel Marking	• ZT-16HPS-63W-S • 16-Way High Power Splitter • 700-6000 MHz	• CE / UKCA • Serial number / date code / model name		
Panel Items	• Power on / off switch with LED • Carry handles • 4 x external RF interconnect cables	• 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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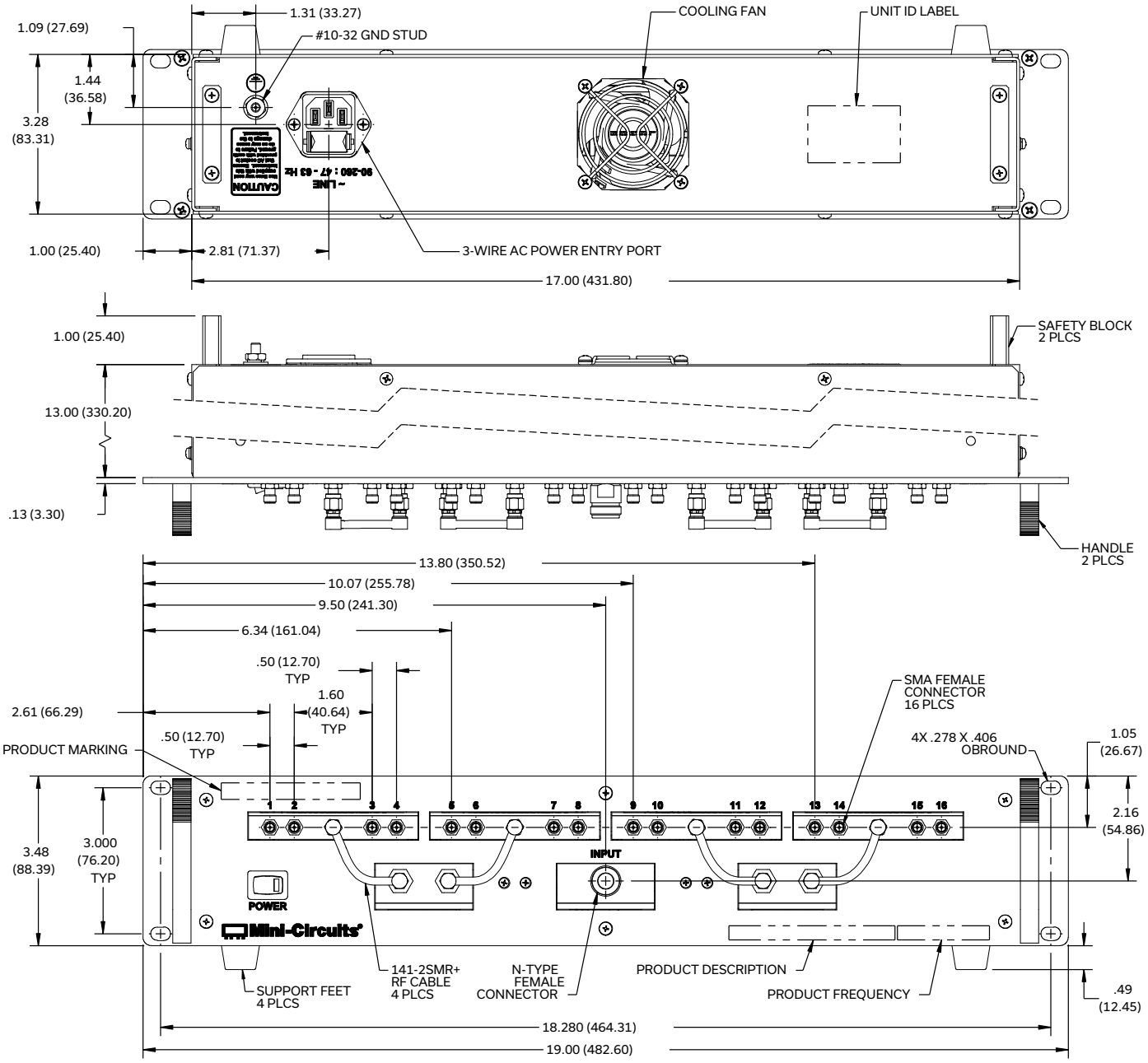
OUTLINE DRAWING



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: 4700 grams.
4. Marking may contain other features or characters for internal lot control.

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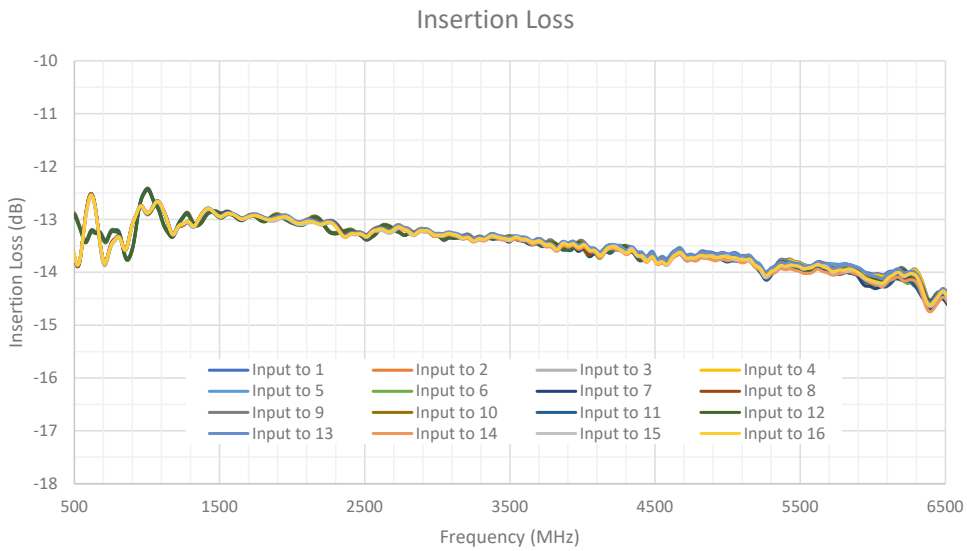
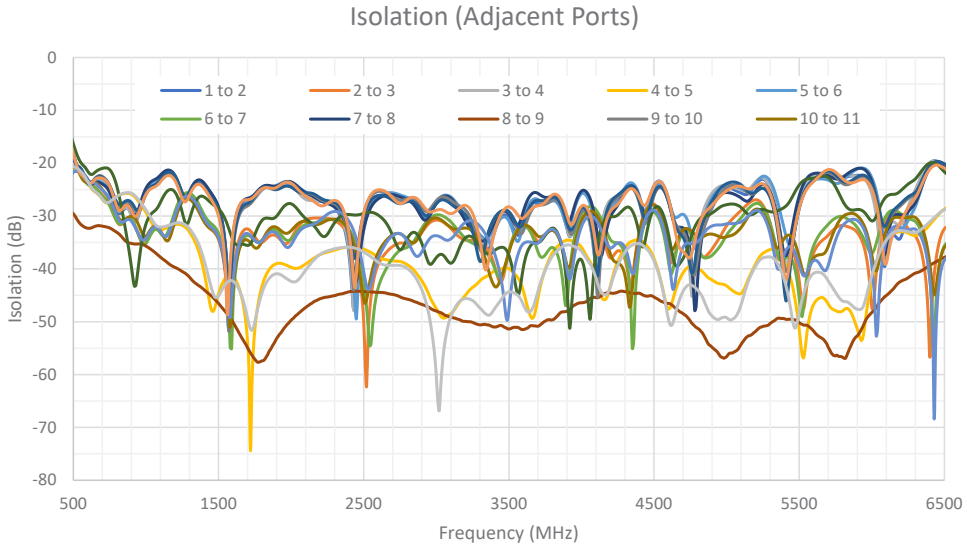
TYPICAL PERFORMANCE CURVES





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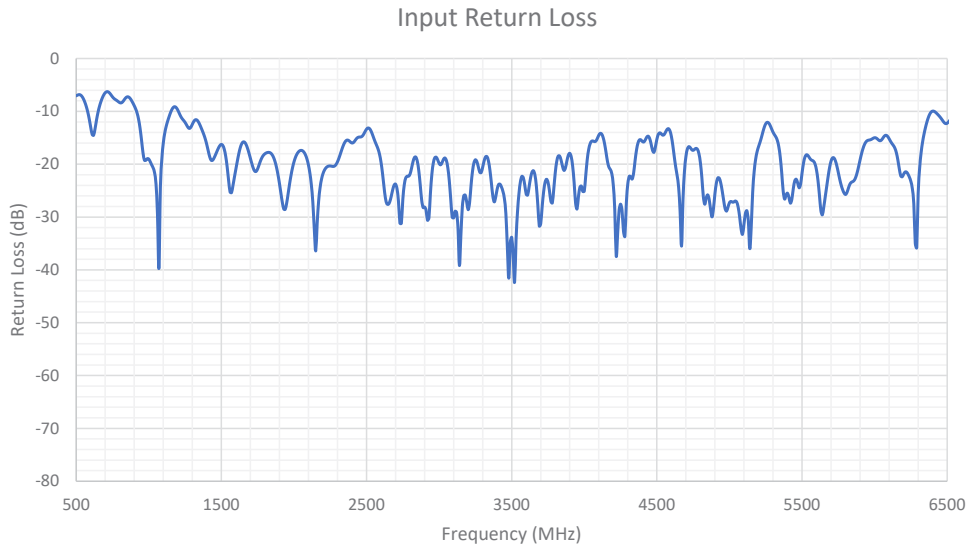
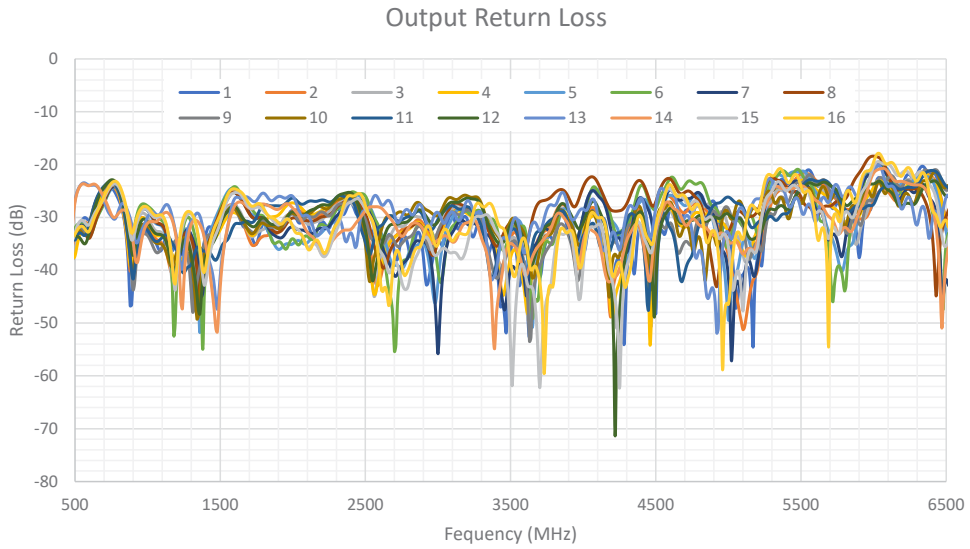
TYPICAL PERFORMANCE CURVES





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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

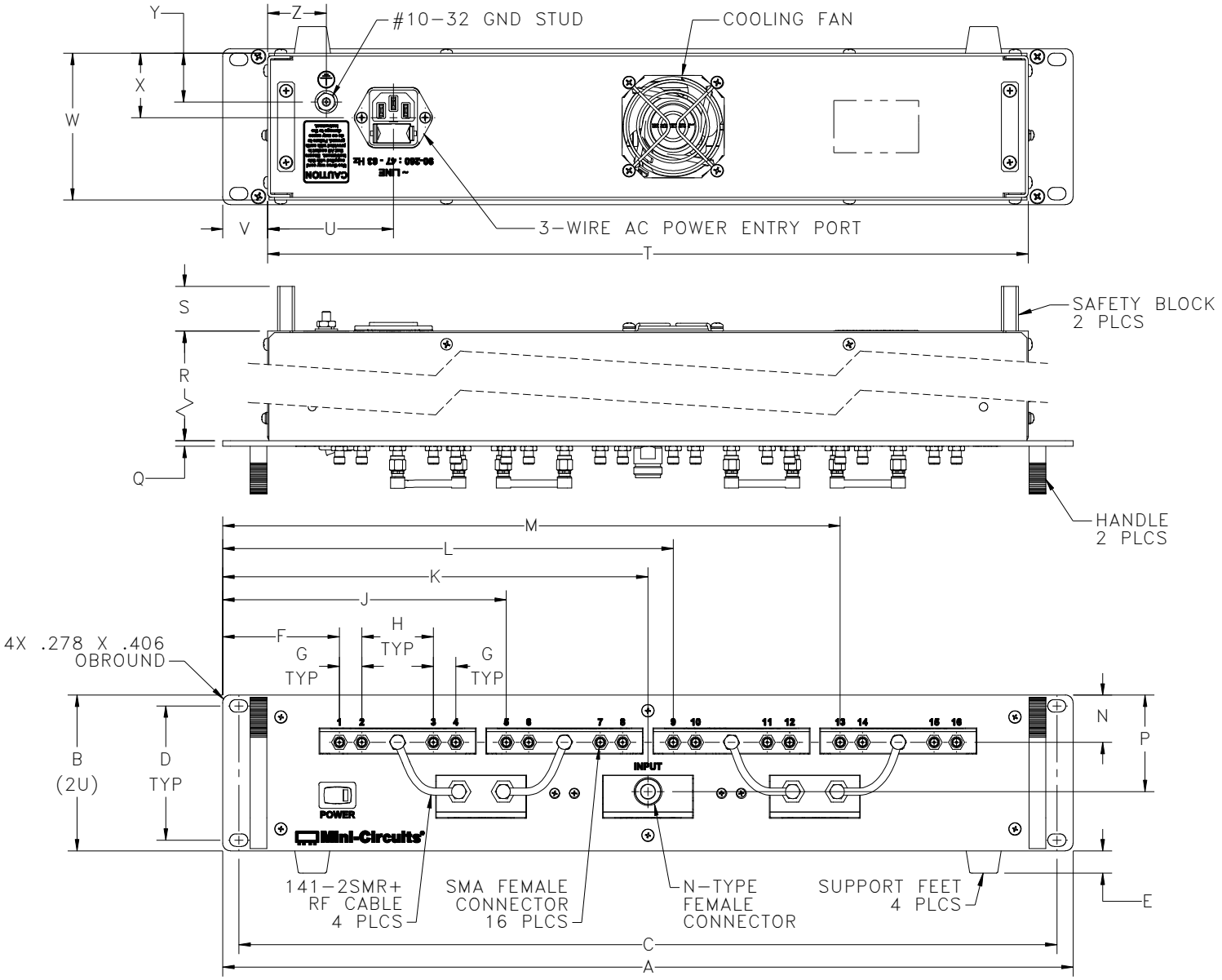
NOTES

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

Case Style YQ

Outline Dimensions

YQ2924



CASE#	A	B	C	D	E	F	G	H	J	K	L	M	N	P
YQ2924	19.00 (482.6)	3.48 (88.4)	18.280 (464.31)	3.000 (76.20)	.49 (12.5)	2.61 (66.2)	.50 (12.7)	1.60 (40.6)	6.34 (160.9)	9.50 (241.3)	10.07 (255.7)	13.80 (350.4)	1.05 (26.8)	2.16 (54.7)

Q	R	S	T	U	V	W	X	Y	Z	WT. GRAMS
.13 (3.2)	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)	4700

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

Notes:

1. Case material: Aluminum alloy.
2. Finish: For Case- Clear Chemical conversion coating.

Mini-Circuits

Environmental Specifications **ENV55**

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 50° C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-20° to 60° 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