

RACK-MOUNTED

SMA to N-Type Adapter Patch Panel

ZT-312

50Ω DC to 18 GHz

THE BIG DEAL

- Convenient panel-mounted design
- Excellent VSWR
- Flat frequency response

(Front View) (Rear View)

CASE STYLE: YF2950

RoHS Compliant
See our website for RoHS Compliance
methodologies and qualifications

APPLICATIONS

- Production test set-ups
- Simplification of cable runs
- · Interconnection of RF cables & equipment

PRODUCT OVERVIEW

Mini-Circuits panel-mounted structures provide clean, organized management of cable runs and connections in complex, high-volume test setups. Multiple connector adapters, power splitters, directional couplers and other essential RF components and test accessories can be integrated efficiently within the test system. Custom configurations are available upon request. ZT-312 is a 1U height patch panel incorporating 12 high quality connector adaptors, with SMA female connectors on the front of the panel and N-type female on the rear.

ELECTRICAL SPECIFICATIONS AT 25°C

Parameter	Frequency (GHz)	Min.	Тур.	Max.	Unit
Frequency Range		DC	-	18	GHz
Insertion Loss	DC - 18 GHz	-	0.1	-	dB
	DC - 8 GHz	-	-	1.15	
VSWR	8 – 12.4 GHz	-	-	1.20	:1
	12.4 – 18 GHz	-	-	1.30	

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

Dimensions	19" (W) x 1U (H)					
Case Style	YE2950					
Case Material	Aluminum (with protective coating to prevent corrosion)					
	Face	Connector Quantity Port Labels				
RF Connectors	Front	SMA female	12	01-12		
	Rear	N-type female	12	None		
	Front Panel	Rear Panel				
Panel Marking	• ZT-312	CE / EAC / UKCA Serial number / date code / model name				
Panel Items	Carry handles					
Temperature	Operating: 0 to +50 °C					



Mini-Circuits

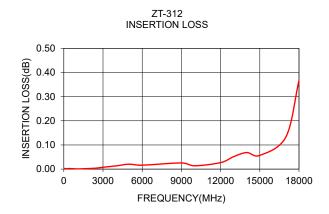
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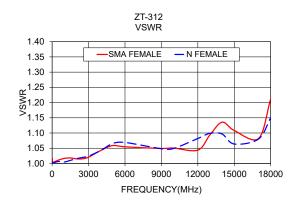
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TYPICAL PERFORMANCE CURVES

Frequency	Insertion Loss	VSWR (:1)				
(MHz)	(dB)	N-FEM	SMA-FEM			
10.00	0.003	1.01	1.02			
50.00	0.003	1.00	1.00			
100.00	0.002	1.00	1.00			
500.00	0.002	1.01	1.01			
1000.00	0.001	1.00	1.02			
1500.00	0.002	1.01	1.02			
2000.00	0.003	1.02	1.02			
2500.00	0.004	1.02	1.02			
3000.00	0.008	1.02	1.02			
4000.00	0.013	1.04	1.04			
5000.00	0.020	1.07	1.06			
6000.00	0.016	1.07	1.05			
9000.00	0.026	1.05	1.05			
10000.00	0.014	1.05	1.05			
12000.00	0.027	1.08	1.04			
13000.00	0.052	1.10	1.09			
14000.00	0.069	1.10	1.14			
15000.00	0.057	1.06	1.11			
17000.00	0.133	1.08	1.08			
18000.00	0.367	1.15	1.21			





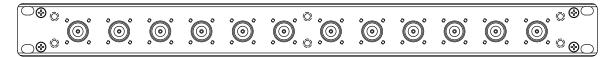


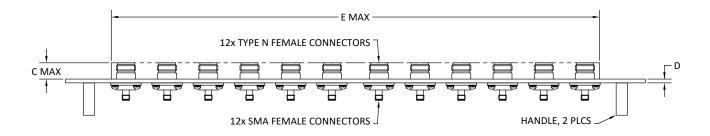
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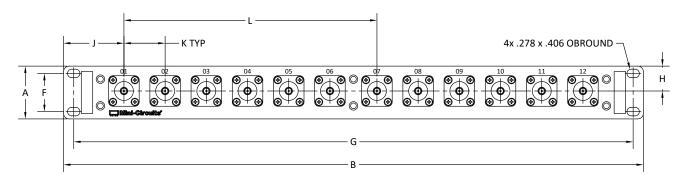
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OUTLINE DRAWING







OUTLINE DIMENSIONS (Inch)

Ε 1.73 19.00 0.75 0.130 16.00 0.820 1.980 1.350 1.250 18.340 8.290 grams 43.9 482.6 19.1 3.30 406.40 31.8 465.8 20.83 50.3 34.3 210.6 635



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ORDERING INFORMATION

To learn more, click here: ZT-312

Model	Description
ZT-312	12 x SMA female to N-type female patch panel

Included Accessories	Part No.	Description
	HT-4-SMA	SMA Cable Wrench (4 in)

NOTES

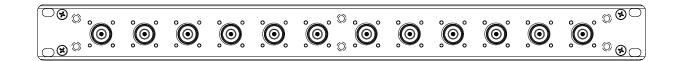
- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's 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

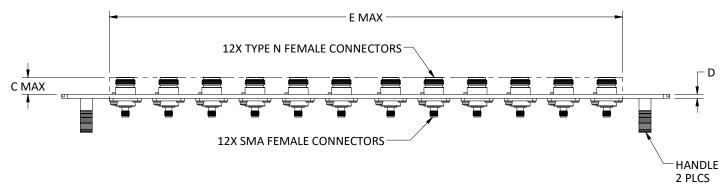
Case Style

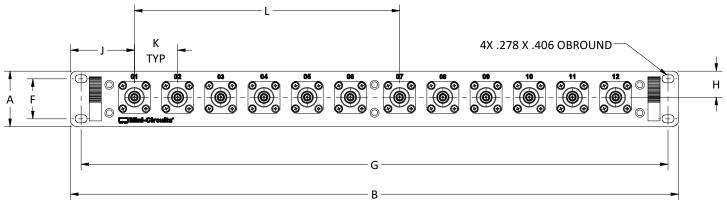


Outline Dimensions

YF2950







CASE #	Α	В	С	D	E	F	G	Н	J	K	L	WT, GRAMS
VESOFO	1.73	19.00	.75	.13	16.00	1.250	18.340	.82	1.98	1.35	8.29	635
YF2950	(43.9)	(482.6)	(19.1)	(3.3)	(406.4)	(31.75)	(465.84)	(20.8)	(50.3)	(34.3)	(210.6)	635

Dimensions are in inches (mm) . Tolerances: 2 Pl. ±.1; 3 Pl. ±.015

Notes:

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





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

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RF/IF MICROWAVE COMPONENTS



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
ENV55 Rev: A January 30, 2017 M16012	29 File: ENV/55 pdf	

ENV55 Rev: A January 30, 2017 M160128 File: ENV55.pdf

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