



RACK-MOUNTED

SMA to N-Type Adapter Patch Panel

ZT-312

50Ω DC to 18 GHz

THE BIG DEAL

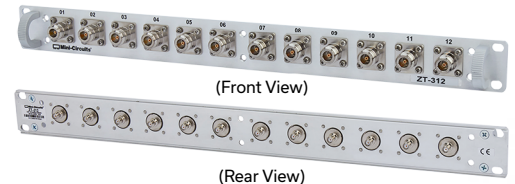
- Convenient panel-mounted design
- Excellent VSWR
- Flat frequency response

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.



CASE STYLE: YF2950

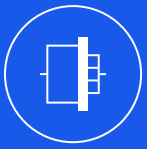
RoHS Compliant
See our website for RoHS Compliance methodologies and qualifications

ELECTRICAL SPECIFICATIONS AT 25°C

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

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

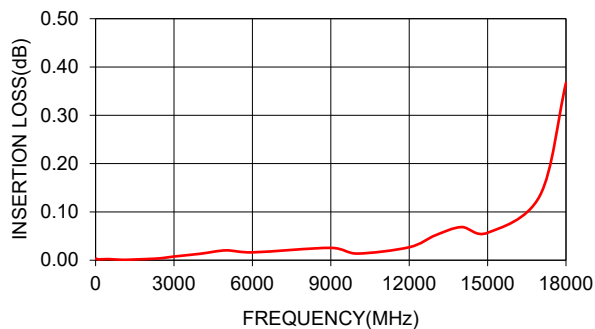
Dimensions	19" (W) x 1U (H)				
Case Style	YE2950				
Case Material	Aluminum (with protective coating to prevent corrosion)				
RF Connectors	Face	Connector	Quantity	Port Labels	
	Front	SMA female	12	01-12	
	Rear	N-type female	12	None	
Panel Marking	Front Panel	Rear Panel			
	• ZT-312	<ul style="list-style-type: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



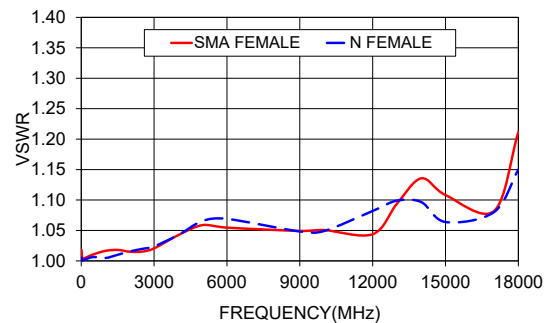
TYPICAL PERFORMANCE CURVES

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
		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

ZT-312
INSERTION LOSS



ZT-312
VSWR





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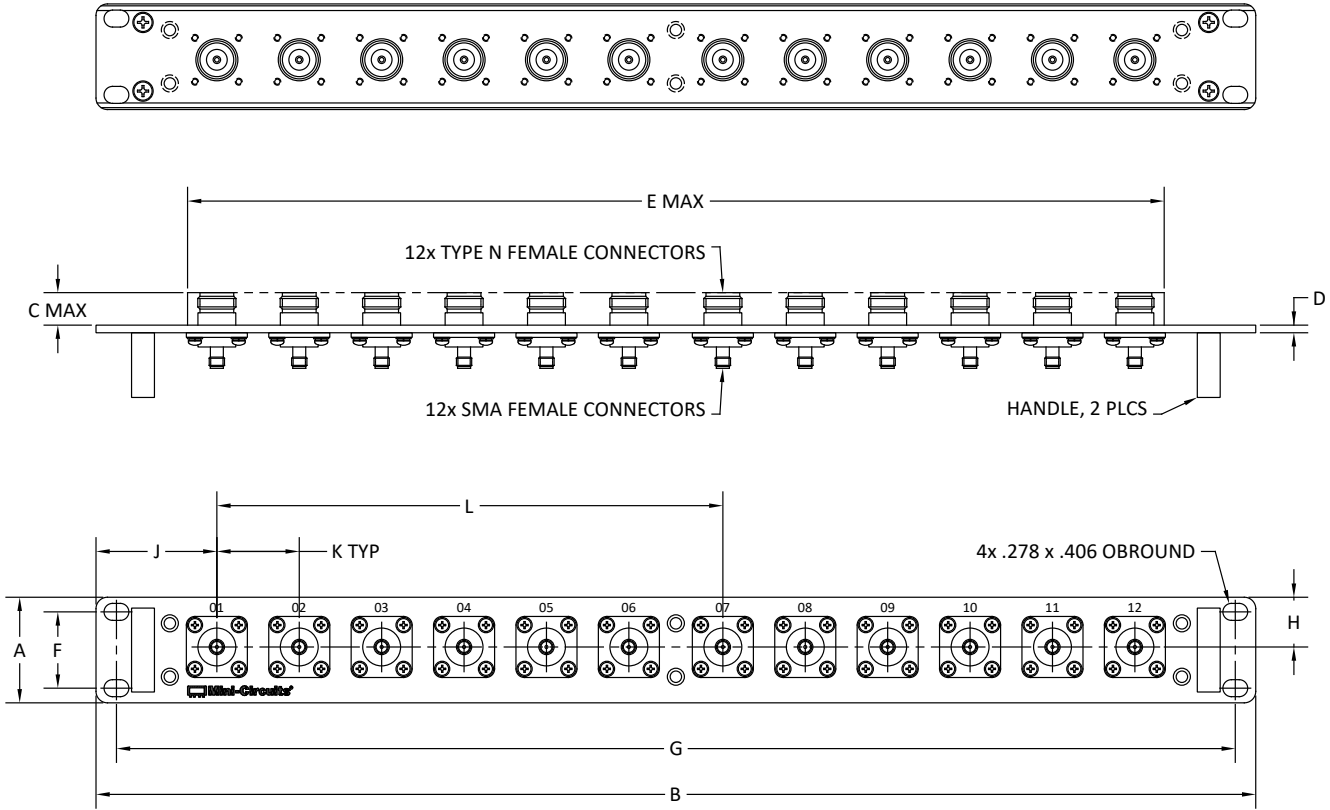
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OUTLINE DRAWING



OUTLINE DIMENSIONS (Inch/mm)

A	B	C	D	E	F	G	H	J	K	L	wt
1.73	19.00	0.75	0.130	16.00	1.250	18.340	0.820	1.980	1.350	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

