RACK-MOUNTED

Adapter Patch Panel

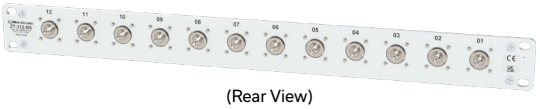
ZT-312-NS

50Ω DC to 18 GHz 12 x N-type Female to SMA Female

THE BIG DEAL

- Rack-mounted connector patch panel
- 18 x N-type to SMA adapters in 1U rack space
- Excellent return loss
- Flat frequency response

(Front View)



(Rear View)

APPLICATIONS

- Production test setups
- Quantum computing
- Simplification of cable runs
- Interconnection of RF cables & equipment

PRODUCT OVERVIEW

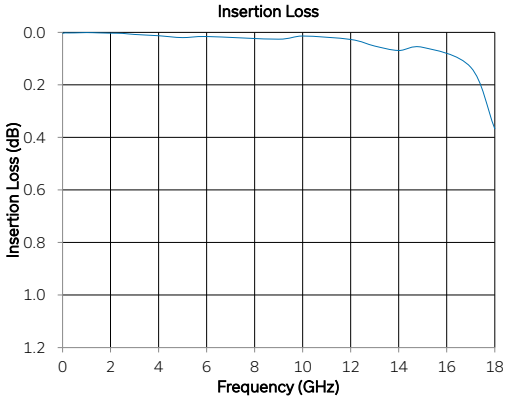
Mini-Circuits panel-mounted structures provide clean, organized management of cable runs and connections in complex, high volume test setups. Multiple connector adapters, power splitters, directional couplers and other essential RF components and test accessories can be integrated efficiently within the test system. Custom configurations are available upon request.

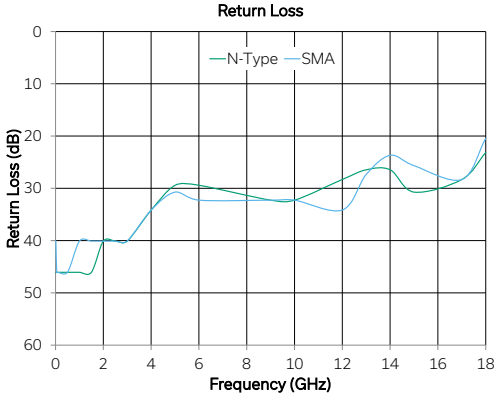
ZT-312-NS integrates 12 wideband adapters on to a compact panel requiring only 1U of rack space, with N-type female connectors on the front and SMA female on the rear.

ELECTRICAL SPECIFICATIONS AT +25°C (EACH ADAPTER)

Parameter	Frequency (GHz)	Min.	Typ.	Max.	Unit
Frequency Range		DC	-	18	GHz
Insertion Loss	DC-18	-	0.1	-	dB
Return Loss	DC-8	23	-	-	dB
	8-12.4	20	-	-	
	12.4-18	17	-	-	

TYPICAL PERFORMANCE GRAPHS





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ECO-027807
ZT-312-NS
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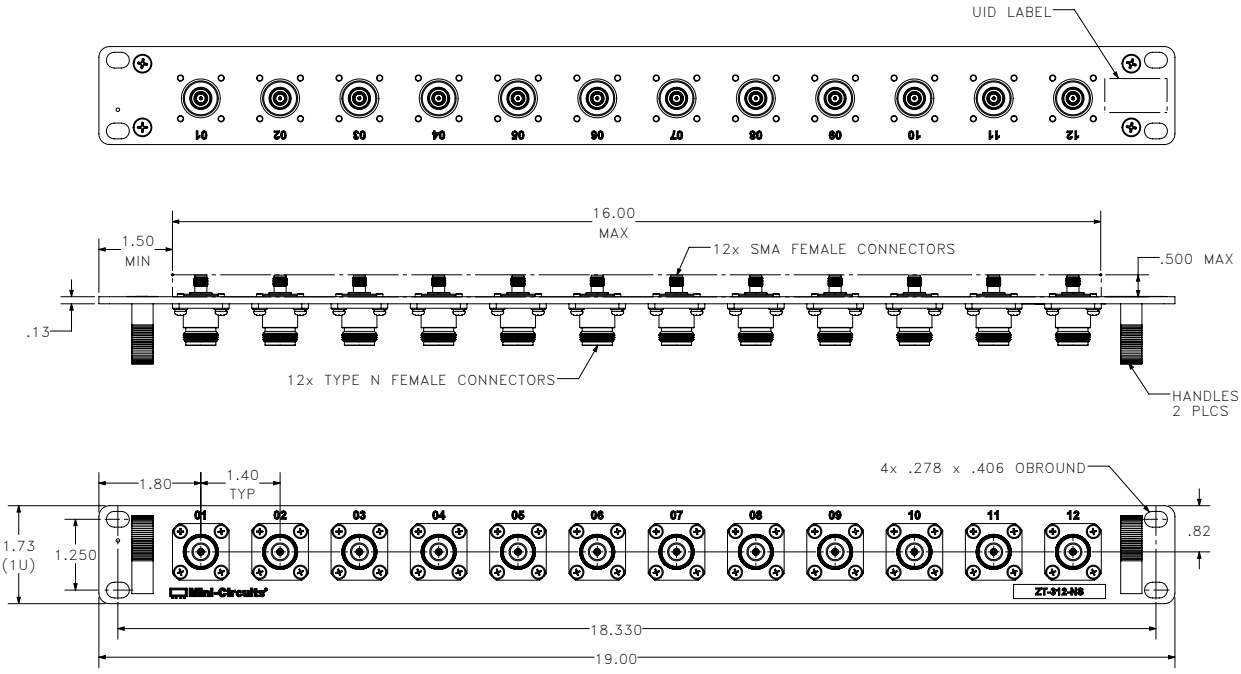
CASE STYLE DRAWING



PRODUCT MARKING*

Product Marking: ZT-312-NS
Unit ID Label: Serial number and other identification marks
*Marking may contain other features or characters for internal lot control

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ABSOLUTE MAXIMUM RATINGS

Parameter	Conditions	Limits	Units
Temperature	Operating	0 to +50	°C
	Storage	-20 to +60	

Permanent damage may occur if any of these limits are exceeded. Operating in the range between operating power limits and absolute maximum ratings for extended periods of time may result in reduced life and reliability.

CONNECTIONS

Port	Connector
01-12 (front)	N-type female
01-12 (rear)	SMA female

DETAILED MODEL INFORMATION IS AVAILABLE ON OUR WEBSITE CLICK HERE

Case Style	99-01-3715
Environmental Rating	ENV55
Regulatory Compliance	Refer to our website for compliance methodologies and qualifications CE UKCA www.minicircuits.com/quality/environmental_introduction.html

Contact Us: testsolutions@minicircuits.com

Included Accessories	Part Number	Description
	HT-4-SMA	SMA connector wrench (4" length)

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

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

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