



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

APPLICATIONS

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

PRODUCT OVERVIEW

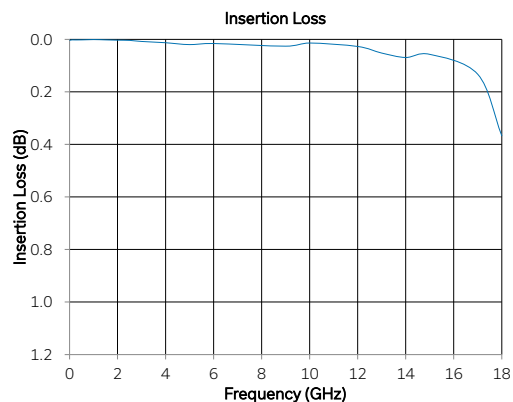
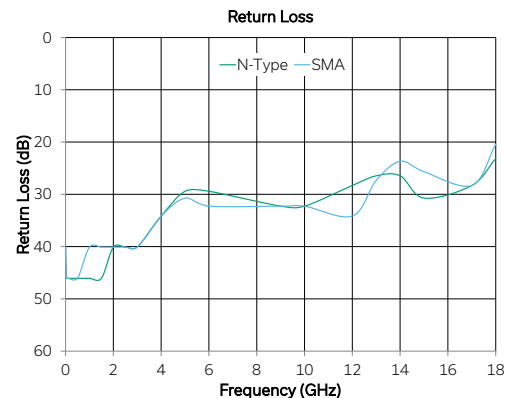
Mini-Circuits panel-mounted structures provide clean, organized management of cable runs and connections in complex, high volume test setups. Multiple connector adapters, power splitters, directional couplers and other essential RF components and test accessories can be integrated efficiently within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





RACK-MOUNTED

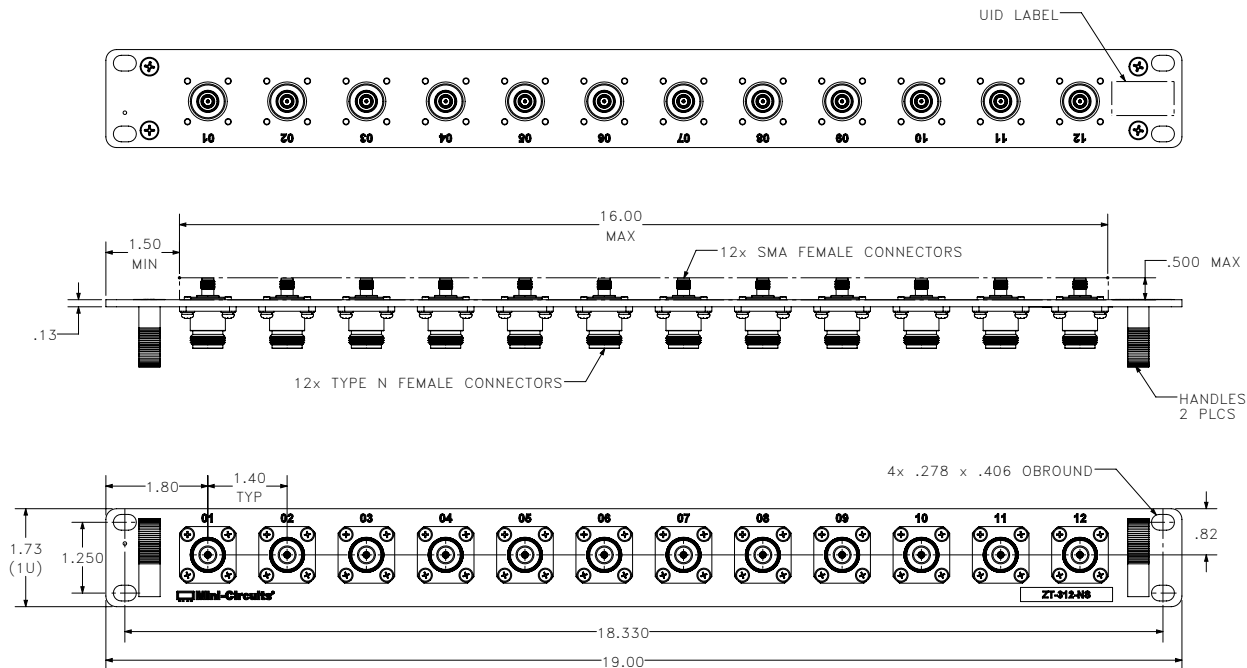
Adapter Patch Panel

ZT-312-NS

Mini-Circuits

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

CASE STYLE DRAWING

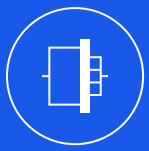


PRODUCT MARKING*

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



RACK-MOUNTED

Adapter Patch Panel

ZT-312-NS

Mini-Circuits

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

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 	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

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- 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

