

Splitter / Combiner Panel

ZT-299

 50Ω 0.5-6 GHz 4 x 8-Way SMA Female

THE BIG DEAL

- Rack-mounted RF splitter / combiner panel
- 4 x 8-way splitters in 1U rack space
- · All connectors on the front panel
- Wide band



Front View
Generic photo used for illustration purposes only

FUNCTIONAL BLOCK DIAGRAM

APPLICATIONS

- Production test setups
- Satcom signal distribution
- GNSS (GPS, Galileo, GLONASS) signal distribution
- 5G FR1, Bluetooth & WiFi signal distribution



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-299 integrates 4 x 8-way splitter / combiners on to a compact panel requiring only 1U of rack space. The wide 500-6000 MHz bandwidth of operation covers a key portion of the cellular and satcom signal frequencies with low insertion loss and high isolation between ports.

The panel is configured with all SMA RF connectors on the front for easy access within a rack-mounted test environment.

ELECTRICAL SPECIFICATIONS AT +25°C (EACH SPLITTER)

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Parameter	Conditions	Min	Тур	Max	Units	
Frequency		500		6000	MHz	
Insertion Loss	Above theoretical 9 dB loss		2.8	3.5	dB	
Isolation	500 – 700 MHz	18	23		-ID	
	700 – 6000 MHz	20	28		dB	
Return Loss	500 – 700 MHz		12		dB	
	700 – 6000 MHz		17			
Input Power	As a splitter into load with 2:1 max VSWR			30	W	

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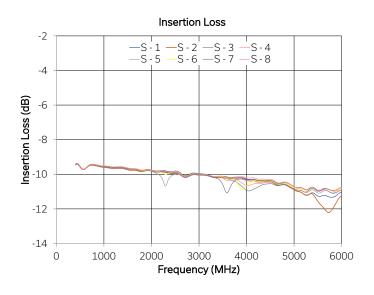
RACK-MOUNTED

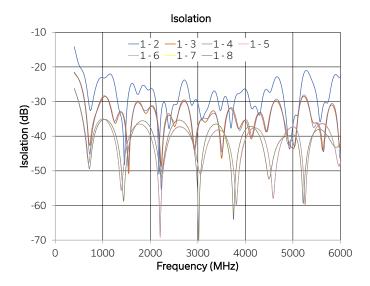
Splitter / Combiner Panel

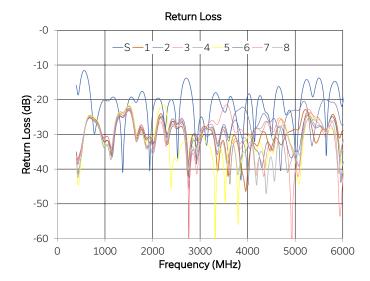
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TYPICAL PERFORMANCE GRAPHS









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ABSOLUTE MAXIMUM RATINGS

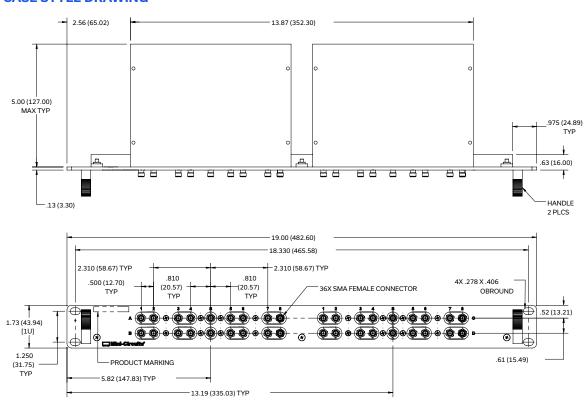
Parameter	Conditions	Limits	Units	
Temperature	Operating	0 to +50	°C	
	Storage	-20 to +60		

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	
Splitter A-D, ports S & 1-8	SMA female	

CASE STYLE DRAWING



Weight: 2200 grams.

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

PRODUCT MARKING*

Product Marking: ZT-299

Unit ID Label: Serial number and other identification marks

*Marking may contain other features or characters for internal lot control



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DETAILED MODEL INFORMATION IS AVAILABLE ON OUR WEBSITE CLICK HERE

Case Style	AAN2873	
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

- 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

