

RACK-MOUNTED

Splitter / Combiner Rack **ZT-40**

 50Ω 30-2000 MHz 2 x 8-Way SMA Female

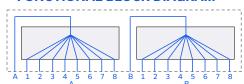
THE BIG DEAL

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



Generic photo used for illustration purposes only

FUNCTIONAL BLOCK DIAGRAM



APPLICATIONS

- Production test setups
- Military VHF / UHF radio testing
- GNSS (GPS, Galileo, GLONASS) signal distribution
- · Test instrumentation time synchronization

PRODUCT OVERVIEW

Mini-Circuits' rack-mounted test solutions enable convenient integration of any combination of passive or active RF and microwave components within complex production test environments. A wide range of standard configurations are supplied from stock, with custom configurations available upon request.

ZT-402 integrates 2 x 8-way splitter / combiners into a compact rack-mounted chassis requiring only 1U of rack space. Each splitter covers an exceptionally wide bandwidth of 30-2000 MHz with high isolation, ideally suited for applications in the VHF, UHF and L bands.

The system 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)

Parameter	Conditions	Min	Тур	Max	Units	
Frequency		30		2000	MHz	
Insertion Loss	Above theoretical 9 dB loss, 30 – 500 MHz		3.0	4.0		
	Above theoretical 9 dB loss, 500 – 2000 MHz		5.0	7.0	7.0	
Isolation	30 – 500 MHz	20	25		dB	
	500 – 2000 MHz	18	20			
Return Loss	Sum ports, 30 – 500 MHz		11			
	Sum ports, 500 – 2000 MHz		8		15	
	Ports 1-8, 30 – 500 MHz	Ports 1-8, 30 – 500 MHz			dB	
	Ports 1-8, 500 – 2000 MHz		17			
Input Power	As a splitter into load with 2:1 max VSWR			+28	dBm	

REV. A ECO-022135 ZTM-402 MCL NY



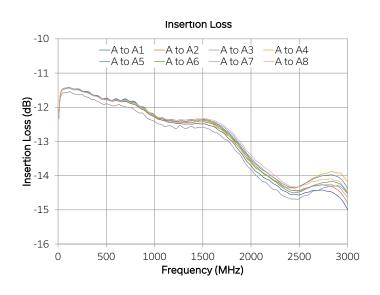


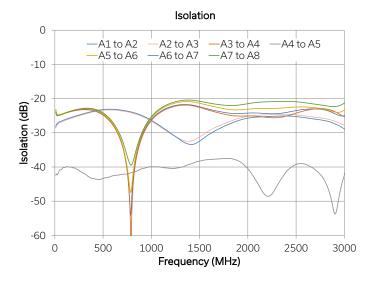
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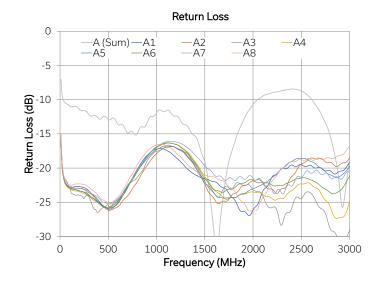
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TYPICAL PERFORMANCE GRAPHS









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ABSOLUTE MAXIMUM RATINGS

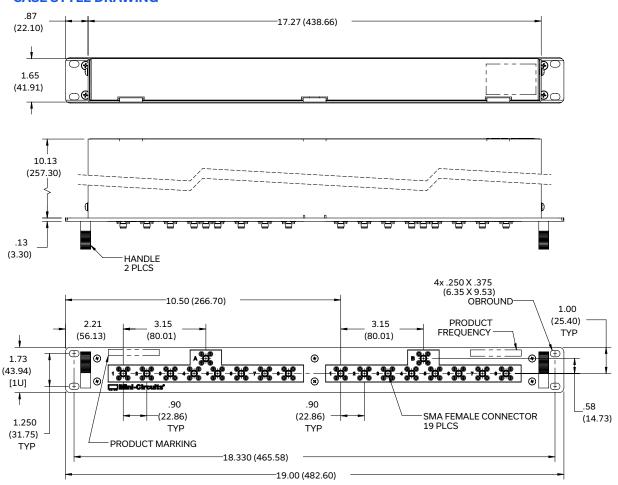
Parameter	Conditions	Limits	Units
Temperature	Operating	0 to +50	°C
	Storage	-20 to +60	

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	Port Function Connecto	
A & B	Sum port	SMA female
A1-8 & B1-8	Input / output port	SMA female

CASE STYLE DRAWING



Weight: 1860 grams.

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

PRODUCT MARKING*

Product Marking: ZT-402

Product Frequency: 30-2000 MHz

Unit ID Label: Serial number and other identification marks

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



RACK-MOUNTED Splitter / Combiner Rack zt-402

30-2000 MHz 2 x 8-Way SMA Female

DETAILED MODEL INFORMATION IS AVAILABLE ON OUR WEBSITE CLICK HERE

Case Style	AAS3583	
Environmental Rating	ENV55	
Regulatory Compliance	Refer to our website for compliance methodologies and qualifications CEUK 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.
- 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

