

RACK-MOUNTED

Splitter / Combiner Rack

ZT-402

 50Ω 30-2000 MHz 2 x 8-Way SMA Female

THE BIG DEAL

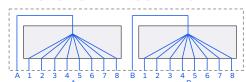
- · Rack-mounted RF splitter / combiner system
- 2 x 8-way splitters in 1U rack space
- All connectors on the front panel
- Wide band



Front View

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	Above theoretical 9 dB loss, 30 – 500 MHz	30		2000	MHz	
Insertion Loss	Above theoretical 9 dB loss, 500 – 2000 MHz		3.0	4.0		
	30 – 500 MHz		5.0	7.0	dB	
Isolation	500 – 2000 MHz	20	25		dB	
	Sum ports, 30 – 500 MHz	18	20			
	Sum ports, 500 – 2000 MHz		11			
Return Loss	Ports 1-8, 30 – 500 MHz		8			
	Ports 1-8, 500 – 2000 MHz		22		dB	
	As a splitter into load with 2:1 max VSWR		17			
Input Power	As a splitter into load with 2:1 max VSWR			+28	dBm	

REV. A ECO-022135 ZTM-402 MCL NY



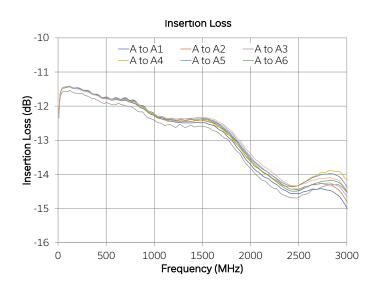


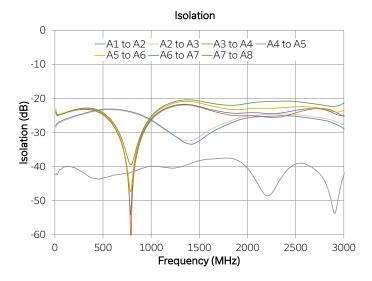
RACK-MOUNTED

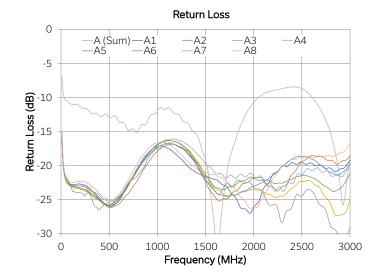
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 50Ω 30-2000 MHz 2 x 8-Way SMA Female

TYPICAL PERFORMANCE GRAPHS









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Splitter / Combiner Rack **ZT-402**

50 Ω 30-2000 MHz 2 x 8-Way SMA Female

ABSOLUTE MAXIMUM RATINGS

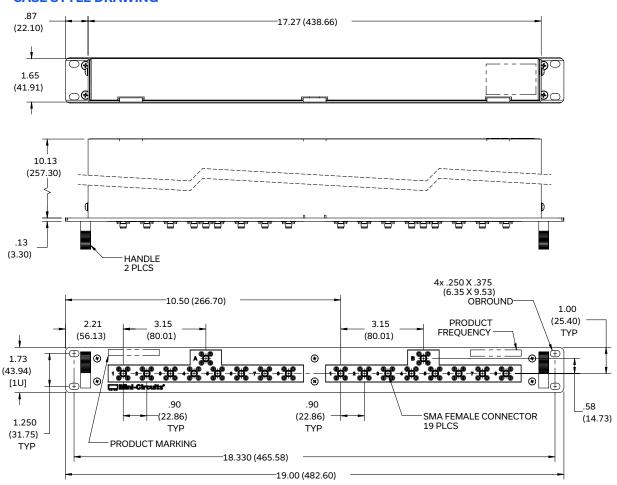
Parameter	Conditions	Limits	Units	
Tomporatura	Operating	0 to +50	°C	
Temperature	Storage	-20 to +60		

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	Function
A & B	SMA female
A1-8 & B1-8	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



Splitter / Combiner Rack

ZT-402

 50Ω 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	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

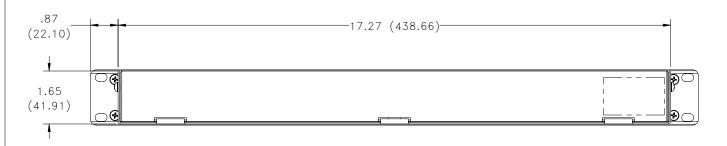


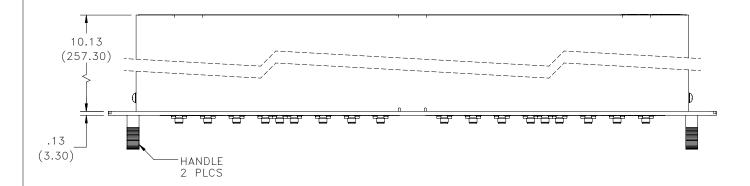
Case Style

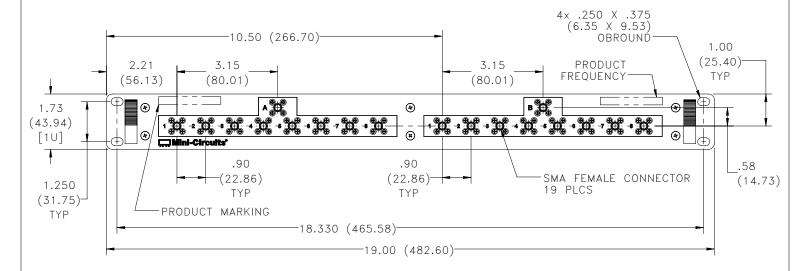
AAS

Outline Dimensions

AAS3583







Notes:

- 1. Case material: Aluminum (with protective coating to prevent corrosion).
- 2. Dimensions are in inches (mm). Tolerances: 2 Pl. ±.03 inch; 3 Pl. ±.015 inch.
- 3. Weight: 1860 grams.
- 4. Marking may contain other features or characters for internal lot control.





P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



RF/IF MICROWAVE COMPONENTS



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
ENV55 Rev: A January 30, 2017 M16012	29 File: ENV/55 pdf	

ENV55 Rev: A January 30, 2017 M160128 File: ENV55.pdf

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