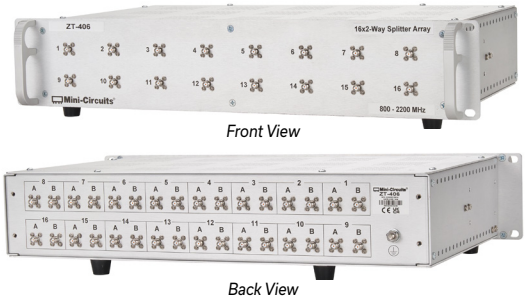
RACK-MOUNTED

Splitter / Combiner Rack ZT-406

50 Ω 800-2200 MHz 16 x 2-Way SMA Female

THE BIG DEAL

- Rack-mounted RF splitter / combiner system
- 16 x 2-way splitters in 2U rack space
- In-line connector configuration
- Wide band



Front View

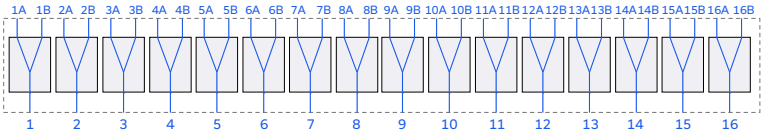
Back View

Generic photo used for illustration purposes only

APPLICATIONS

- Production test setups
- L-band satcom (satellite communications)
- GNSS (GPS, Galileo, GLONASS) signal distribution
- Test instrumentation time synchronization

FUNCTIONAL BLOCK DIAGRAM



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-406 integrates 16 x 2-way splitter / combiners into a compact rack-mounted chassis requiring only 2U of rack space. Each splitter covers L-band 800-2200 MHz with low insertion loss and high isolation, ideally suited for satcom and GNSS (GPS, GLONASS & Galileo) signal distribution applications.

The orientation of the SMA connectors supports straight-through connections within the rack, with the sum ports accessible on the front panel and ports 1-2 of each splitter on the rear.

ELECTRICAL SPECIFICATIONS AT +25°C (EACH SPLITTER)

Parameter	Conditions	Min	Typ	Max	Units
Frequency		800		2200	MHz
Insertion Loss	Above theoretical 3 dB loss		1.0	2.0	dB
Isolation	800 – 2200 MHz	17	24		dB
Return Loss	Sum ports Ports 1-2		15 17		dB
Input Power	As a splitter into load with 2:1 max VSWR Internal dissipation			1.0 0.75	W

REV. A
ECO-022135
ZTM-406
MCL NY
240618

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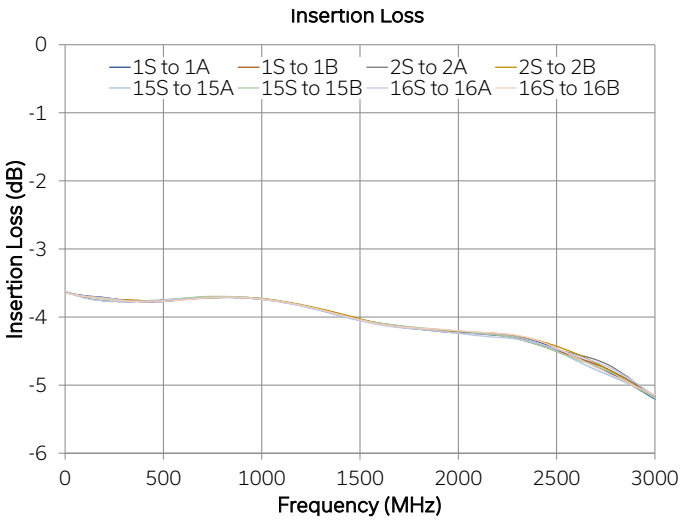
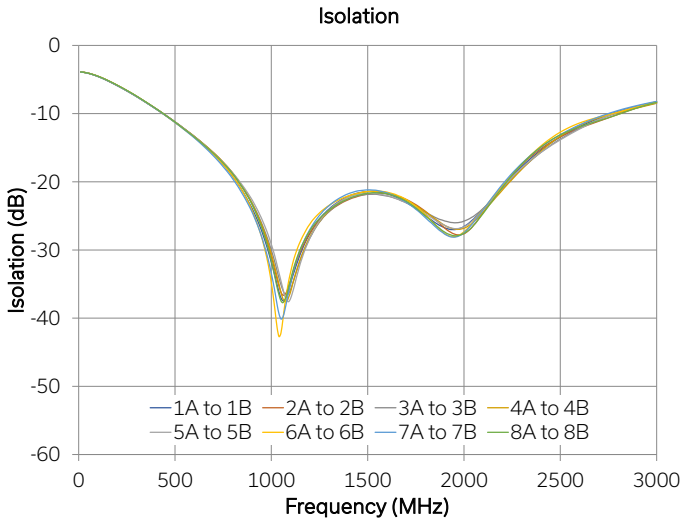
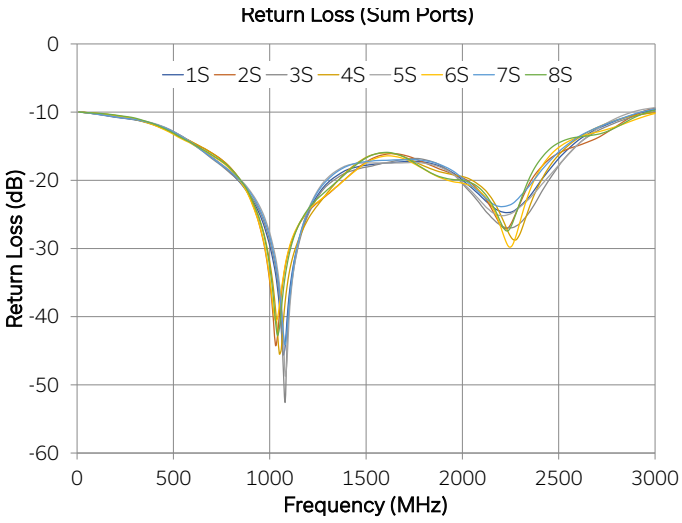
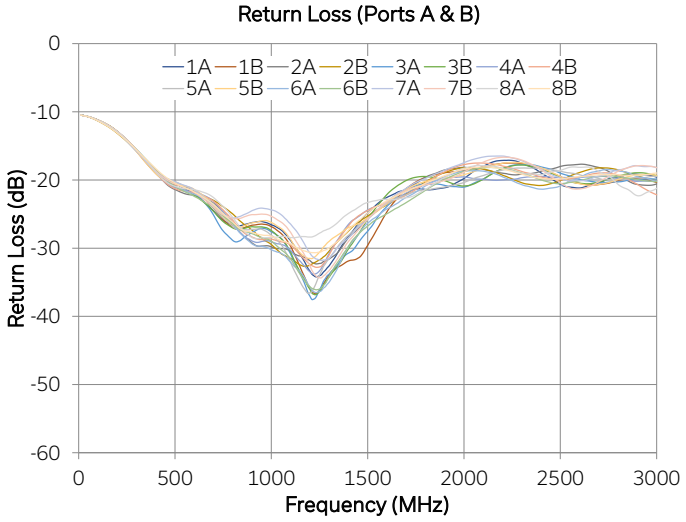
TYPICAL PERFORMANCE GRAPHS









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ABSOLUTE MAXIMUM RATINGS

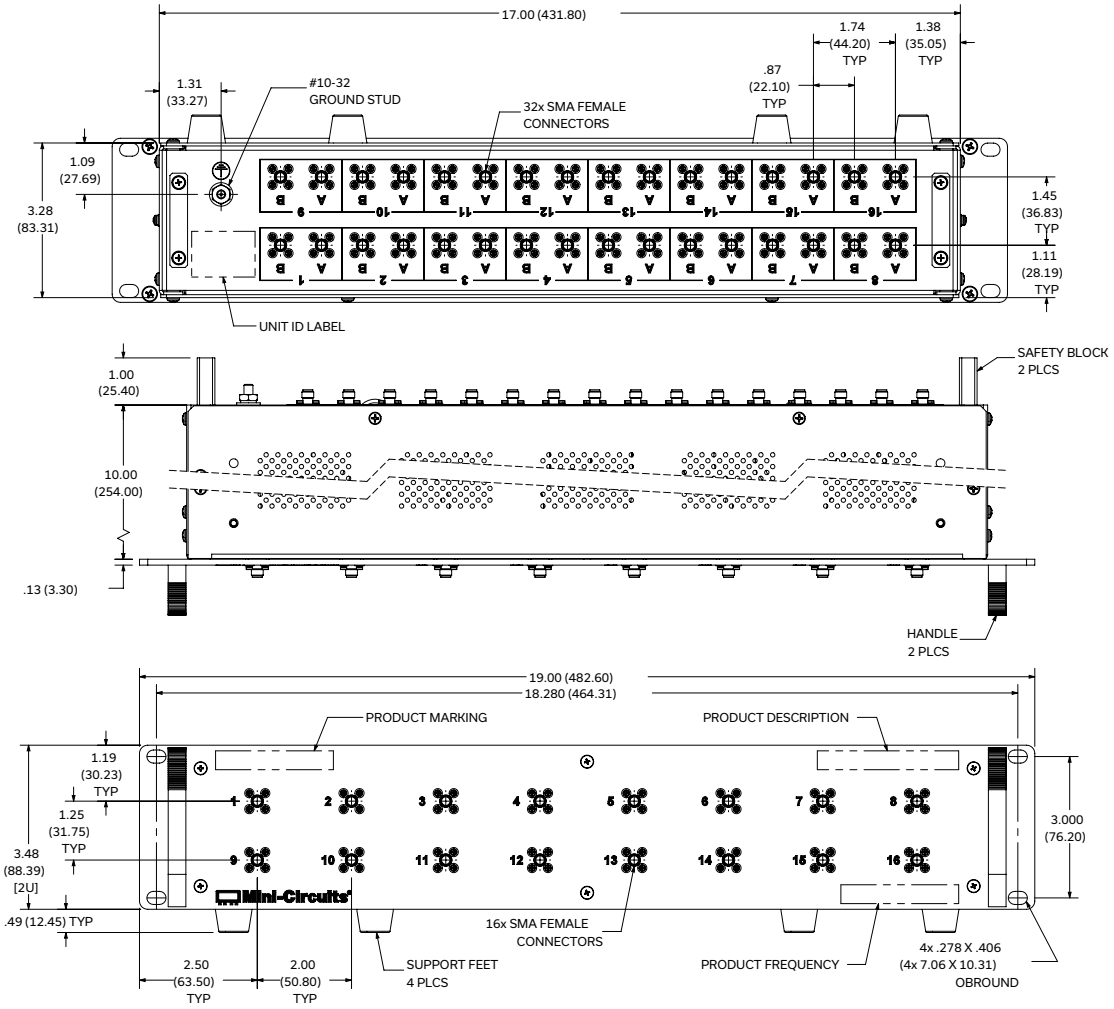
Parameter	Conditions	Limits	Units
Temperature	Operating	0 to +50	°C
	Storage	-20 to +60	

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	Function	Connector
1-16	Sum port	SMA female
1A & 1B to 16A & 16B	Input / output ports	SMA female

CASE STYLE DRAWING



Weight: 3040 grams.
Dimensions are in inches (mm). Tolerances: 2 Pl.±.03 inch; 3 Pl.±.015 inch.

PRODUCT MARKING*

Product Marking: ZT-406
Product Description: 16 x 2-Way Splitter Array
Product Frequency: 800-2200 MHz
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	AAT3608
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