



RACK-MOUNTED

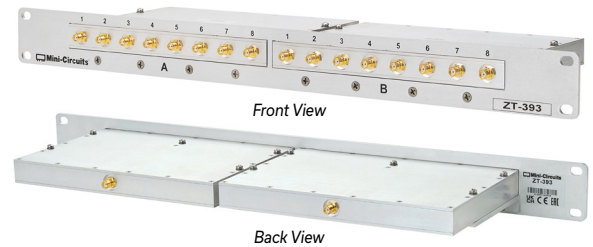
Splitter / Combiner Panel

ZT-393

50 Ω 0.6 to 6 GHz 2 x 8-Way SMA Female

THE BIG DEAL

- Rack-mounted RF splitter / combiner panel
- 2 x 8-way splitters in 1U rack space
- In-line connector configuration
- Wide bandwidth

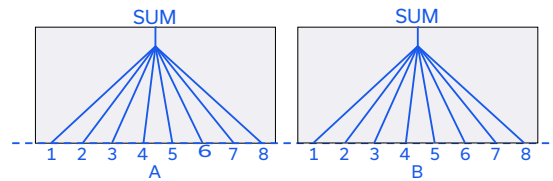


Generic photo used for illustration purposes only

APPLICATIONS

- Production test setups
- Satcom signal distribution
- Cellular test applications

FUNCTIONAL BLOCK DIAGRAM



PRODUCT OVERVIEW

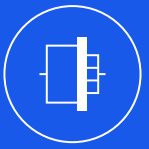
Mini-Circuits panel-mounted structures provide clean, organized management of cable runs and connections in complex, high volume test setups. Multiple connector adapters, power splitters, directional couplers and other essential RF components and test accessories can be integrated efficiently within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

ZT-393 integrates 2 x 8-way splitter / combiners on to a compact panel requiring only 1U of rack space. The orientation of the SMA connectors supports straight-through connections within the rack, with ports 1-8 of each splitter on the front panel and the sum ports accessible from the rear.

ELECTRICAL SPECIFICATIONS AT +25°C (EACH SPLITTER)

| Parameter | Conditions | Min. | Typ. | Max. | Units |
|--|---|------|------|------|-------|
| Frequency Range | | 600 | | 6000 | MHz |
| Insertion Loss (Above Theoretical 9.0 dB) | 600 – 700 MHz | | 0.6 | 1.0 | dB |
| | 700 – 5000 MHz | | 1.8 | 2.3 | |
| | 5000 – 6000 MHz | | 2.4 | 3.3 | |
| Isolation | 600 – 6000 MHz | 16 | 22 | | dB |
| Return Loss (Port S) | 600 – 700 MHz | | 15 | | dB |
| | 700 – 6000 MHz | | 16 | | |
| Return Loss (Ports 1 – 8) | 600 – 700 MHz | | 20 | | dB |
| | 700 – 6000 MHz | | 22 | | |
| Power Handling | CW (as splitter into 1.2:1 max load VSWR) | | | 30 | W |





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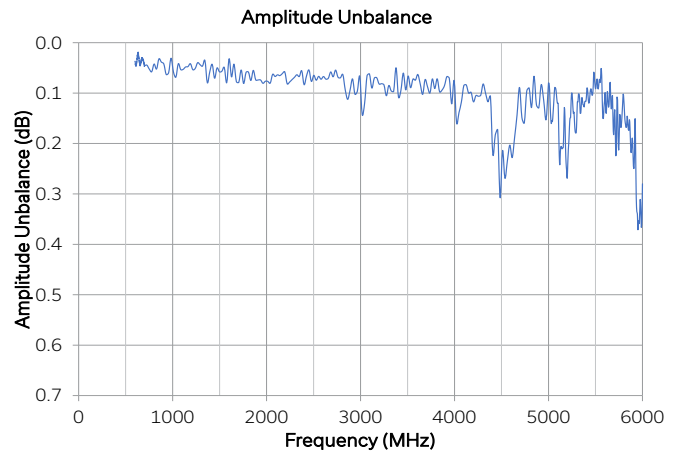
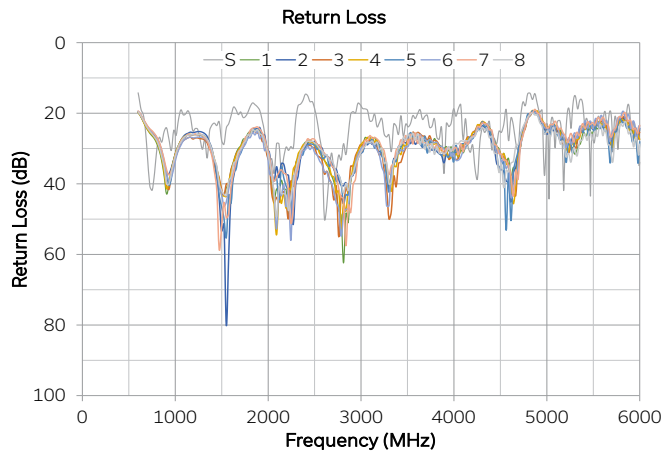
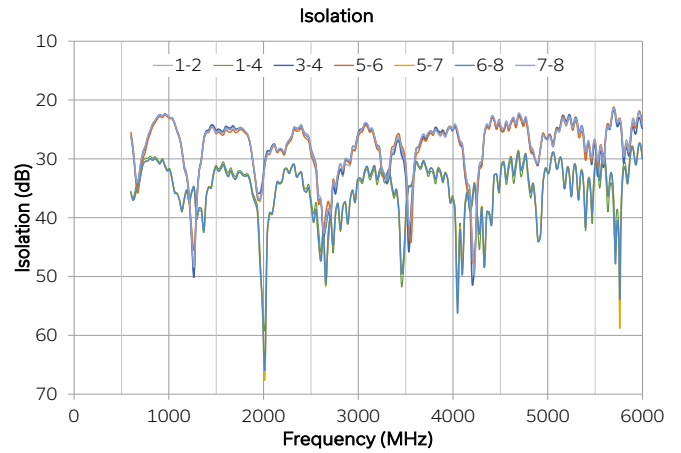
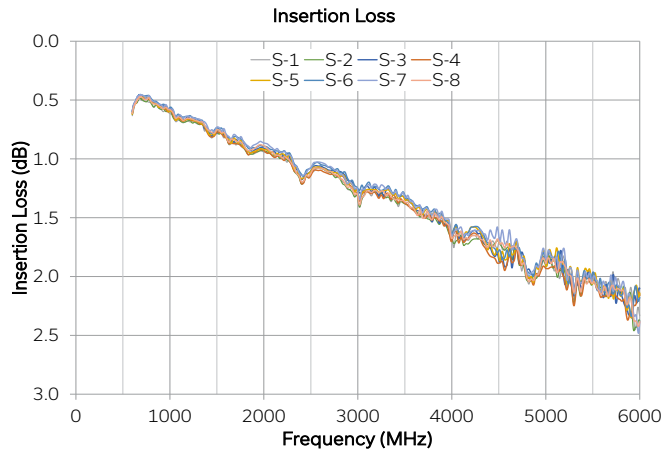
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Mini-Circuits

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TYPICAL PERFORMANCE GRAPHS



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

| Splitter | Port | Connector |
|----------|-----------|------------|
| A to B | Sum & 1-8 | SMA female |





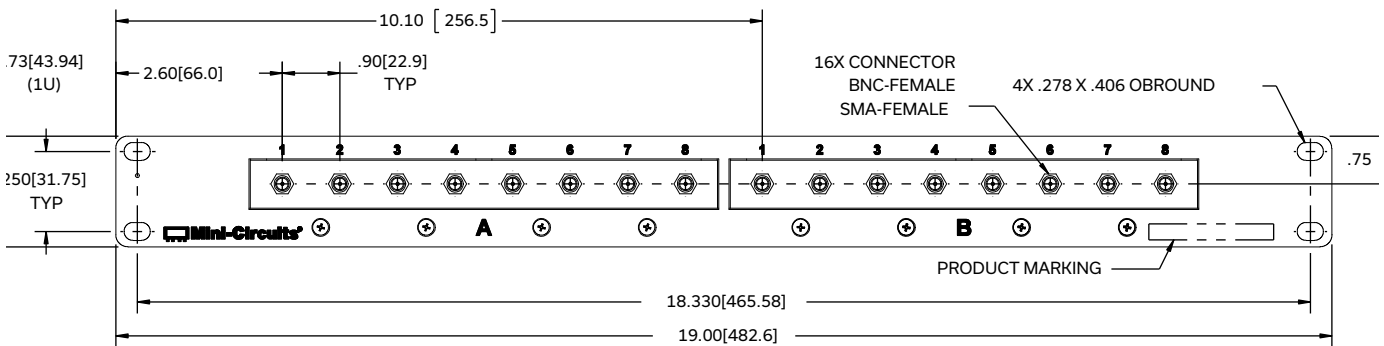
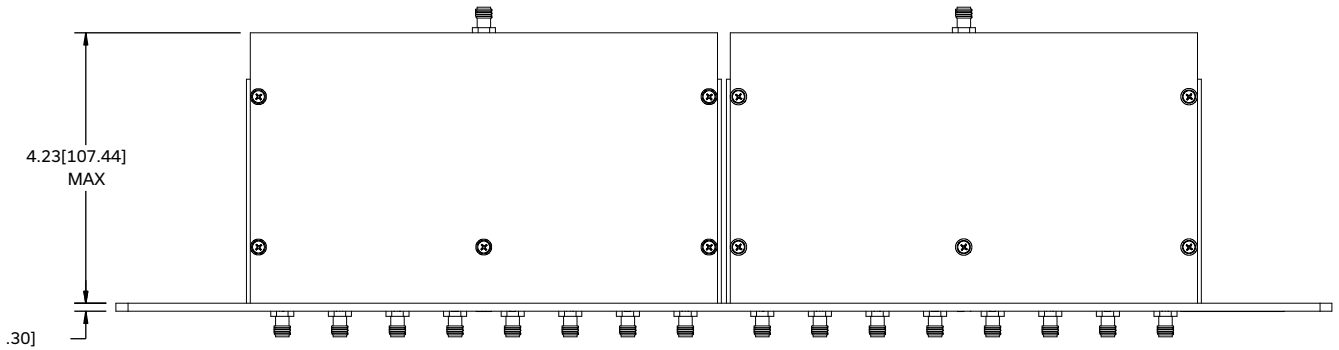
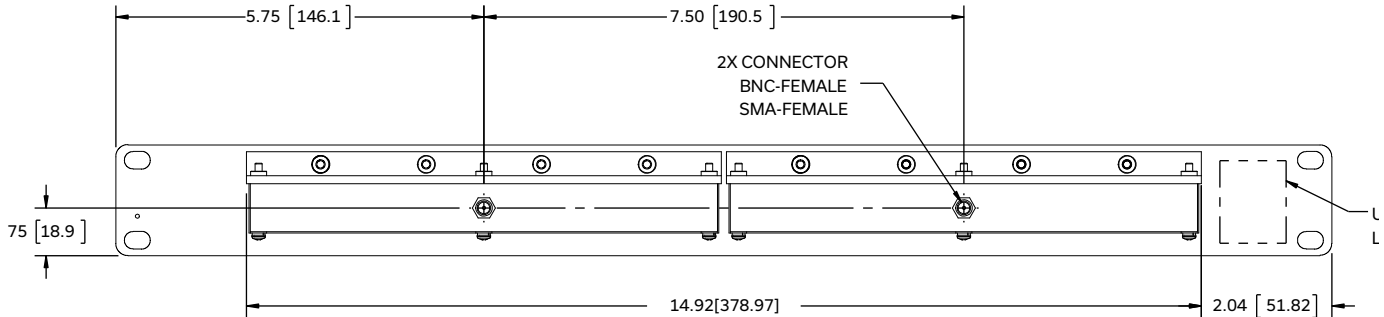
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ZT-393

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CASE STYLE DRAWING



PRODUCT MARKING

Product Marking: ZT-393

Unit ID Label: Serial number and other identification marks

Marking may contain other features or characters for internal lot control






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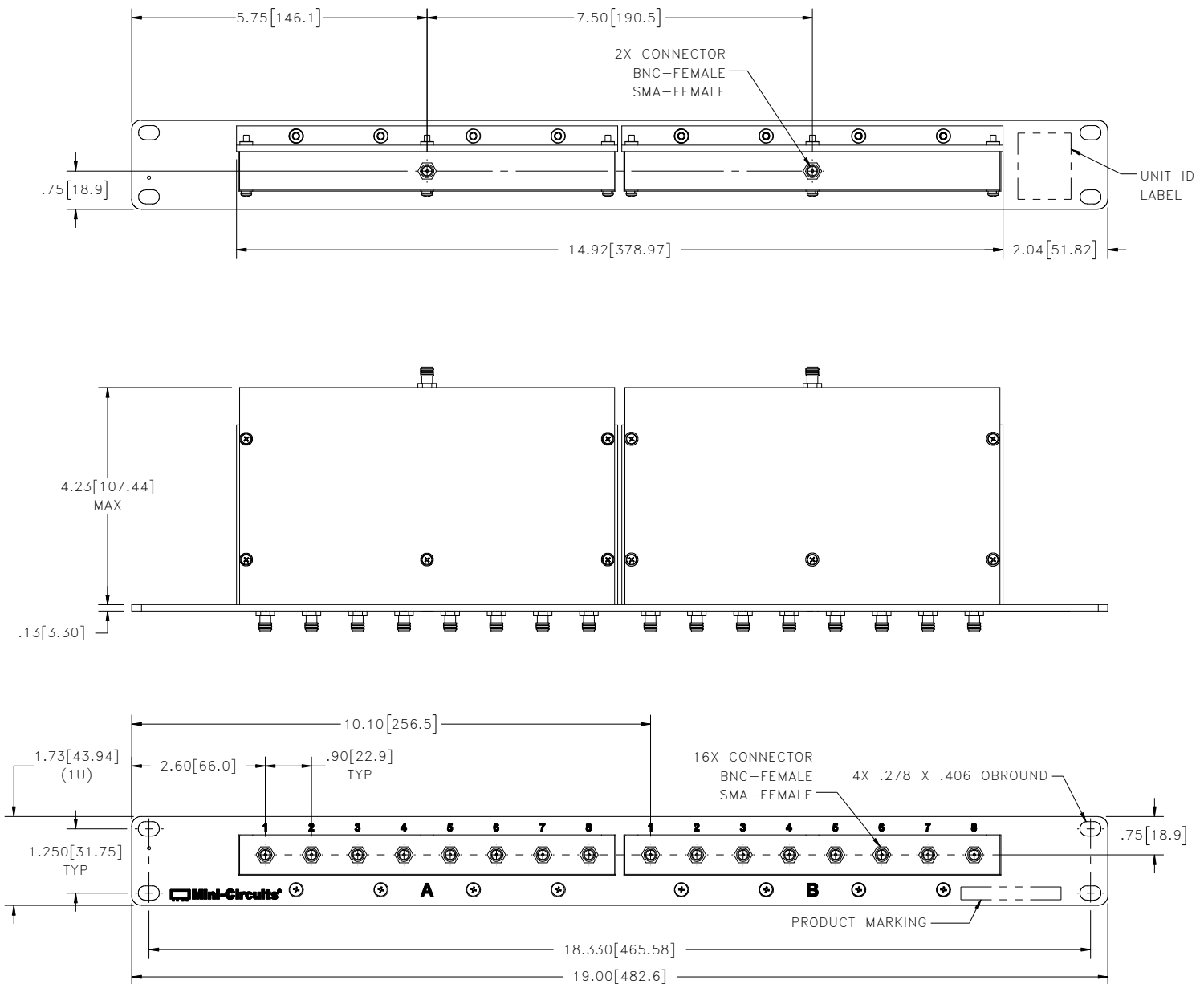
DETAILED MODEL INFORMATION IS AVAILABLE ON OUR WEBSITE [CLICK HERE](#)

| | | |
|-----------------------|---|--|
| Case Style | YN3414 | |
| Environmental Rating | ENV55 | |
| Regulatory Compliance | <p>Refer to our website for compliance methodologies and qualifications</p>  | 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/MCLStore/terms.jsp



Notes:

1. Case material: Aluminum (with protective coating to prevent corrosion).
2. Dimensions are in inches [mm]. Tolerances: 2 Pl. $\pm .03$ inch; 3 Pl. $\pm .015$ inch.
3. Weight: 1880 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



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

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 |