RACK-MOUNTED

4 x 4-Way Splitter/Combiner Panel ZT-257

50Ω 0.5 to 6 GHz SMA Female

THE BIG DEAL

- 4 x 4-way passive splitter / combiners
- Convenient panel-mounted design
- Wide bandwidth
- High power handling

Generic photo used for illustration purposes only

Model No.	ZT-257
Case Style	YN2570
Connectors	SMA Female

RoHS Compliant
See our website for RoHS Compliance methodologies and qualifications

APPLICATIONS

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

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-257 is a 1U height, rack-mountable panel incorporating 4 passive, wideband, 4-way splitter/combiners. All RF ports are SMA Female and accessible on the front panel.

ELECTRICAL SPECIFICATIONS

Parameter		Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency			500		6000	MHz
Insertion Loss (above theoretical 6.0 dB)		500-3000	—	0.4	0.9	dB
		3000-6000	—	0.6	1.3	
Isolation		500-600	16	19	—	dB
		600-6000	18	23	—	
Phase Unbalance		500-6000	—	2	6	Degree
Amplitude Unbalance		500-6000	—	0.15	0.4	dB
VSWR (Port S)		500-600	—	1.3	1.5	:1
		600-6000	—	1.25	1.5	
VSWR (Port 1-4)		500-6000	—	1.15	1.25	:1
Power Handling	As Splitter[1]	500-6000	—	—	30	W
	As Combiner[2]	500-6000	—	—	0.5	

1. All outputs must terminate 50 ohm (VSWR 1.2:1 or better)
2. As a combiner of non-coherent signals, max. power is 0.5Watt per port.

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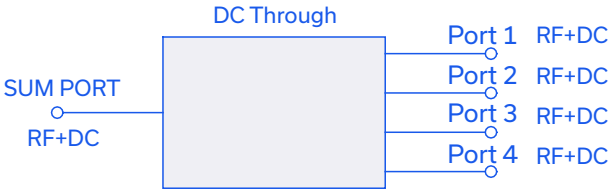
MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

Dimensions	19" (W) x 1U (H)			
Case Style	YN2570			
Case Material	Aluminum (with protective coating to prevent corrosion)			
RF Connectors	**Panel**	**Connector**	**Quantity**	**Port Labels**
	Front	SMA female	20	S & 1-4 per splitter
Panel Marking	**Front Panel**	**Rear Panel**		
	• ZT-257	• CE / EAC / UKCA • Serial number / date code / model name		
Panel Items	• Carry handles			
Temperature	Operating: 0 to +50 °C			

FUNCTIONAL SCHEMATIC (PER SPLITTER)



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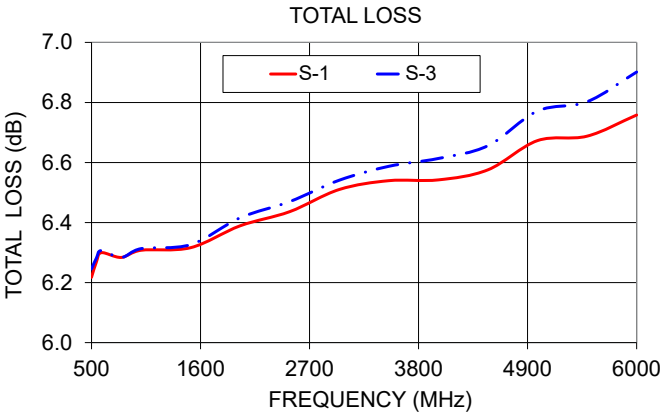
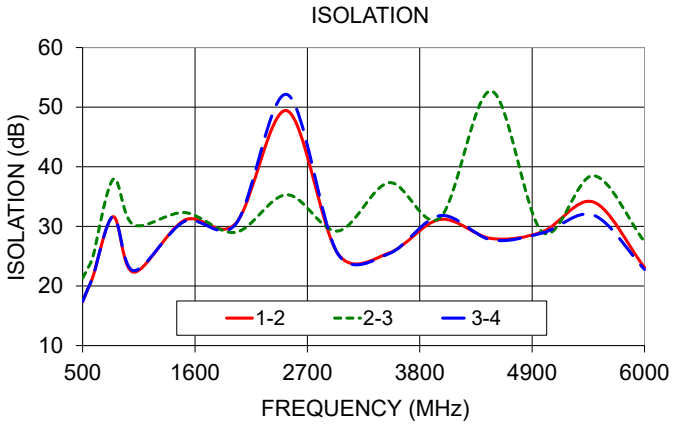
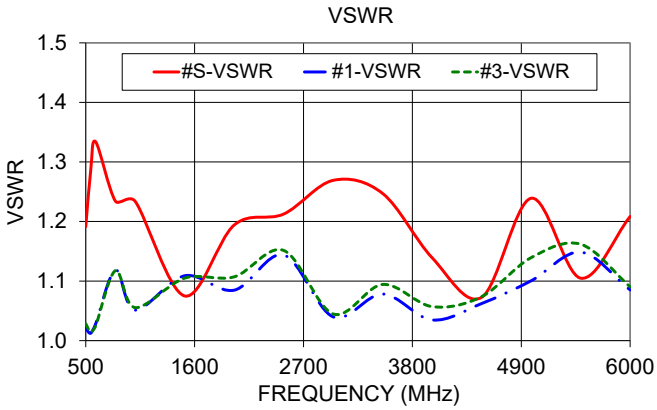
TYPICAL PERFORMANCE CURVES







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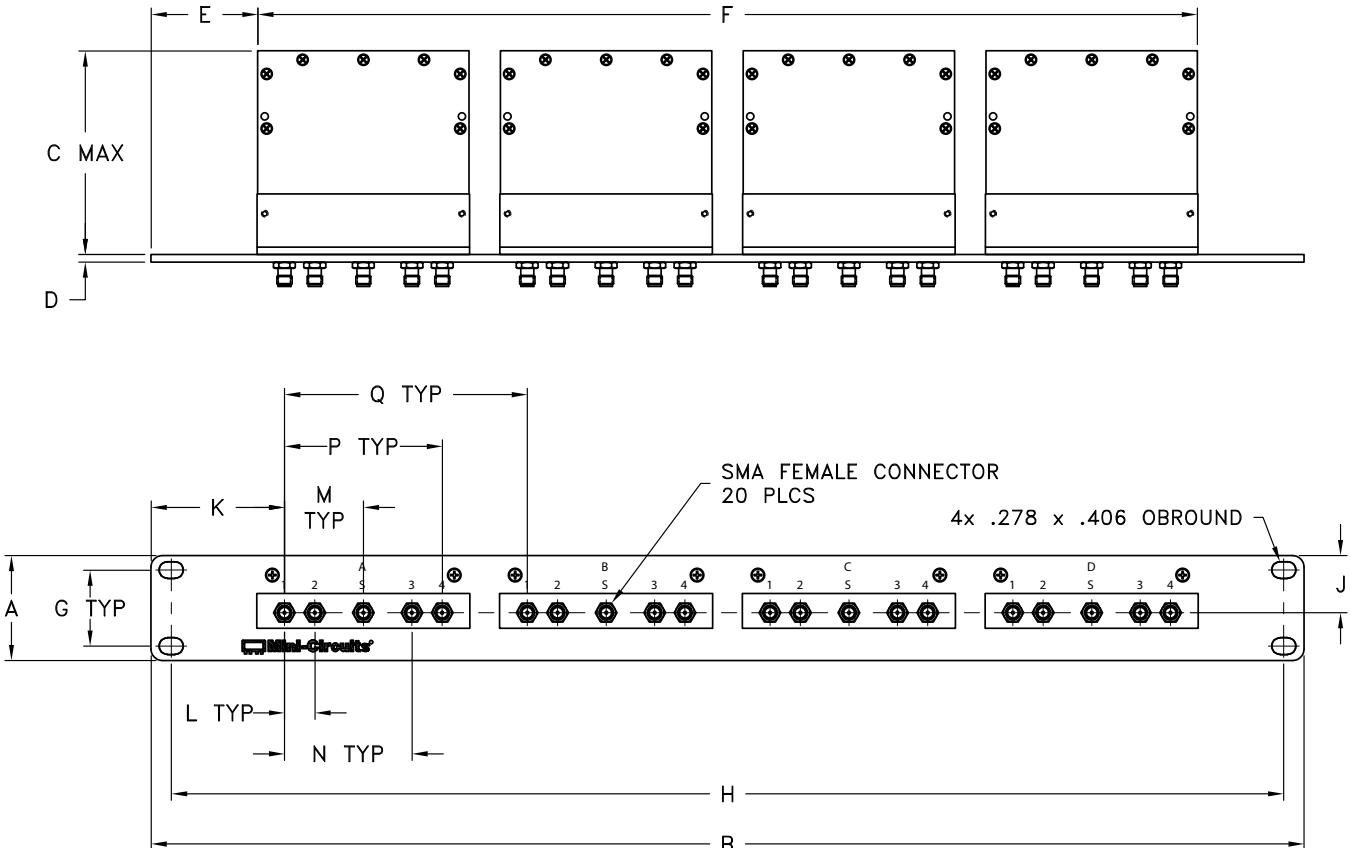
OUTLINE DRAWING



OUTLINE DIMENSIONS (Inch / mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	weight
1.73	19.00	3.75	0.13	1.76	15.48	1.250	18.330	0.94	2.20	0.50	1.30	2.10	2.60	4.00	grams
43.9	482.6	95.3	3.3	44.7	393.19	31.75	465.6	23.9	55.9	12.7	33.0	53.3	66.0	101.6	1000

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ORDERING INFORMATION

To learn more, click here: ZT-257

Model	Description
ZT-257	4 x 4-Way Splitter/Combiner Panel

Included Accessories	Part No.	Description
	HT-4-SMA	SMA Cable Wrench (4 in)

NOTES

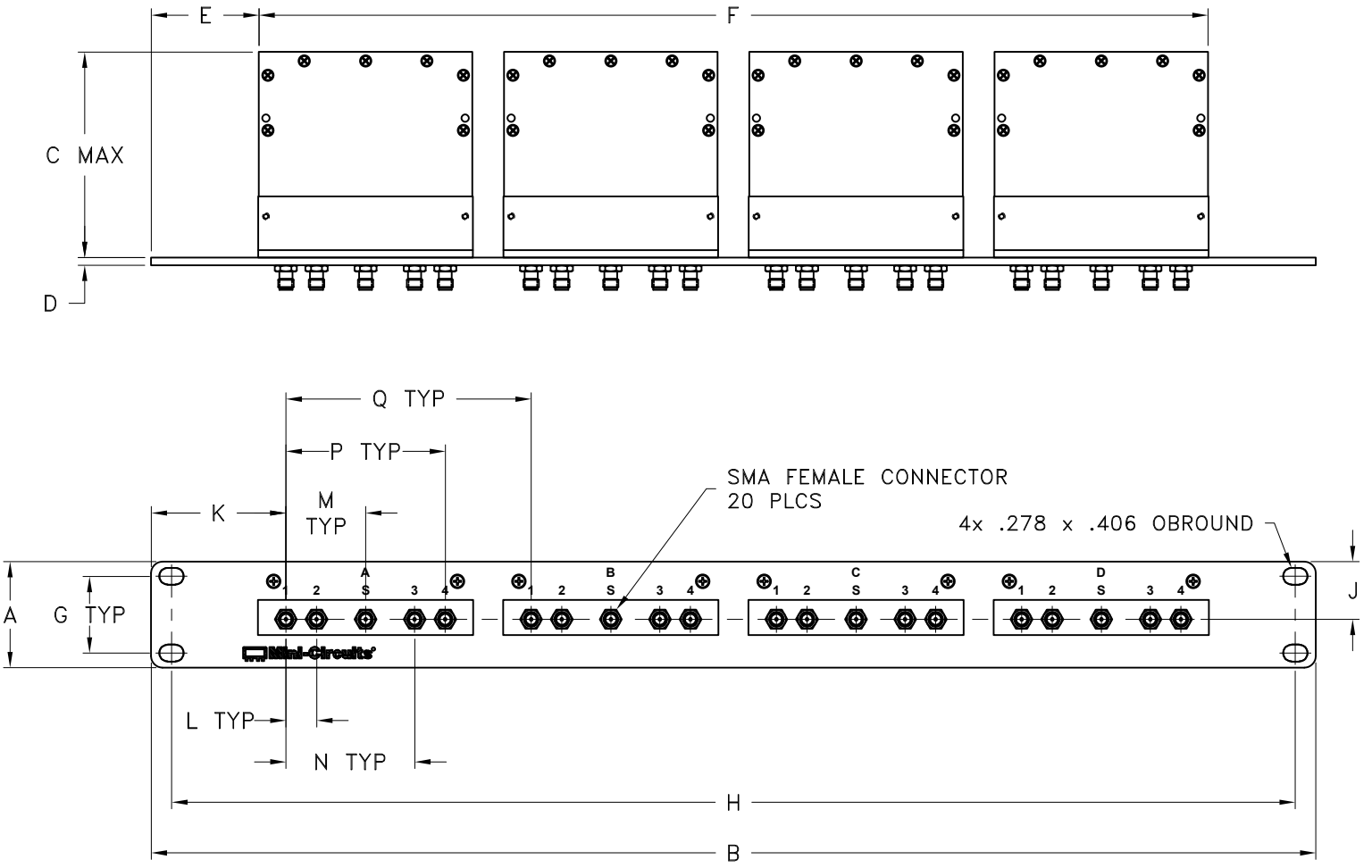
A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

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 YN

Outline Dimensions YN2570



CASE#	A	B	C	D	E	F	G	H	J	K	L	M	N
YN2570	1.73 (43.9)	19.00 (482.6)	3.75 (95.3)	.13 (3.3)	1.76 (44.7)	15.48 (393.2)	1.250 (31.75)	18.330 **(465.58)**	.94 (23.9)	2.20 (55.9)	.50 (12.7)	1.30 (33.0)	2.10 (53.3)

CASE #	P	Q	WT, GRAM
YN2570	2.60 (66.0)	4.00 (101.6)	1000

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

Notes:
1. Case material: Aluminum alloy.
2. Finish: Clear chemical conversion coating.

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RF/IF MICROWAVE COMPONENTS

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Mini-Circuits

Environmental Specifications **ENV56**

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 40° C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-15° to 85° 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

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