DC Pass

20 x 2-Way Splitter / Combiner Panel **ZT-222**

50Ω | 500-6000 MHz | Rack-Mount | N-Type Female

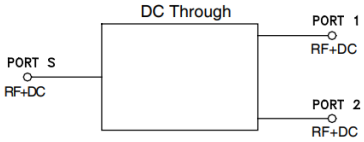
THE BIG DEAL

- 20 x 2-way passive splitter / combiners
- Convenient panel-mounted design
- Wide bandwidth
- DC passing

APPLICATIONS

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

FUNCTIONAL BLOCK DIAGRAM (EACH SPLITTER)



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-222 is a 4U height, rack-mountable panel incorporating 20 passive, wideband, 2-way splitter / combiners. Ports 1-2 (N-type female) of each splitter / combiner are on the front panel, with each sum port (N-type female) accessible from the rear.

RF COMPONENTS LIST

Model Name	Quantity	Requirement
ZN2PD1-63-N+	20	2-Way Power Splitter / Combiner

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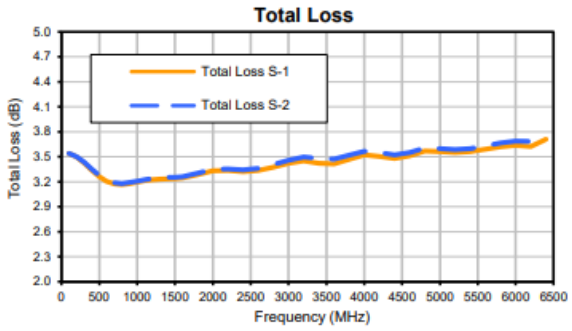
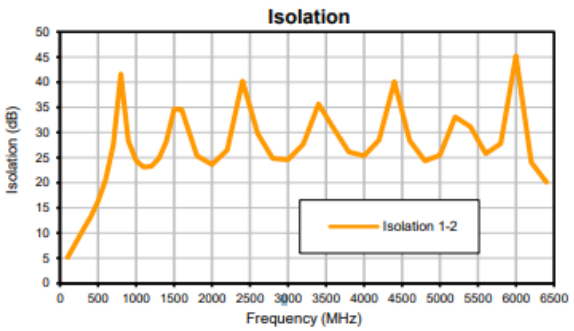
50Ω 500-6000 MHz Rack-Mount N-Type Female

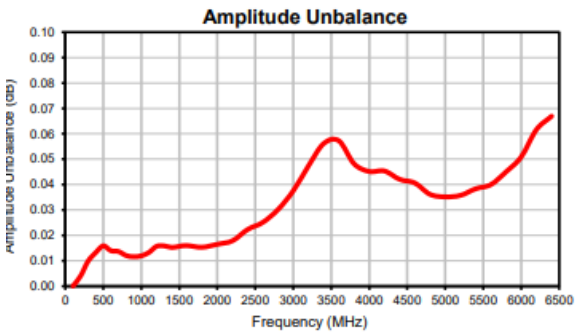
ELECTRICAL SPECIFICATIONS @ 25°C (EACH SPLITTER)

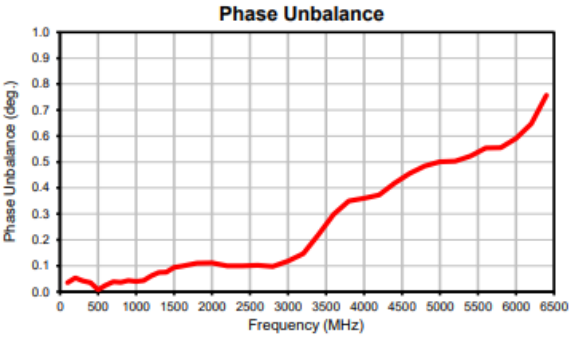
Parameter	Conditions	Min	Typ	Max	Units
Frequency Range		500		6000	MHz
Insertion Loss (Above 3 dB)	500 – 6000 MHz		0.5	0.9	dB
Isolation	500 – 600 MHz	14	18		dB
	600 – 6000 MHz	18	22		
Return Loss	500 – 600 MHz		14		dB
	600 – 6000 MHz		17		
RF Input Power	As a splitter			30	W
	As a combiner (per port)			0.5	
DC Current	DC passing (per port)			1.2	A

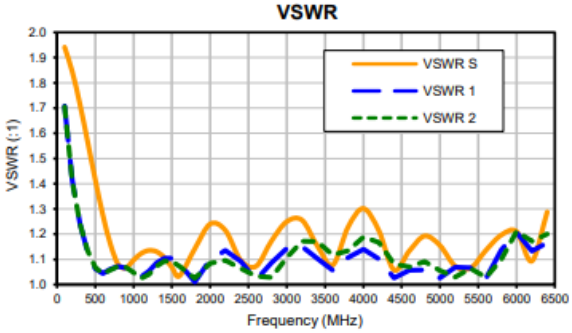
TYPICAL PERFORMANCE CURVES











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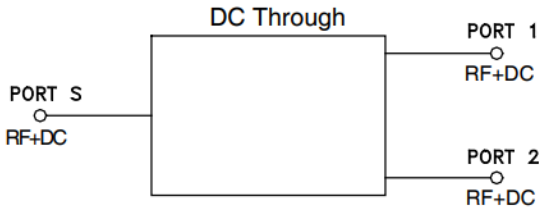
ABSOLUTE MAX RATINGS

Parameter	Conditions	Limits	Units
Temperature	Operating	0 to +50	°C
	Storage	-20 to +60	
Input Power (No Damage)	As a splitter	30	W
	As a combiner (per port)	0.5	
DC Current	DC passing	1.2	A

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.

FUNCTIONAL BLOCK DIAGRAM (EACH SPLITTER)



CONNECTIONS (EACH SPLITTER)

Name	Connector Type
Ports 1-2	N-type female (front)
Port S	N-type female (rear)

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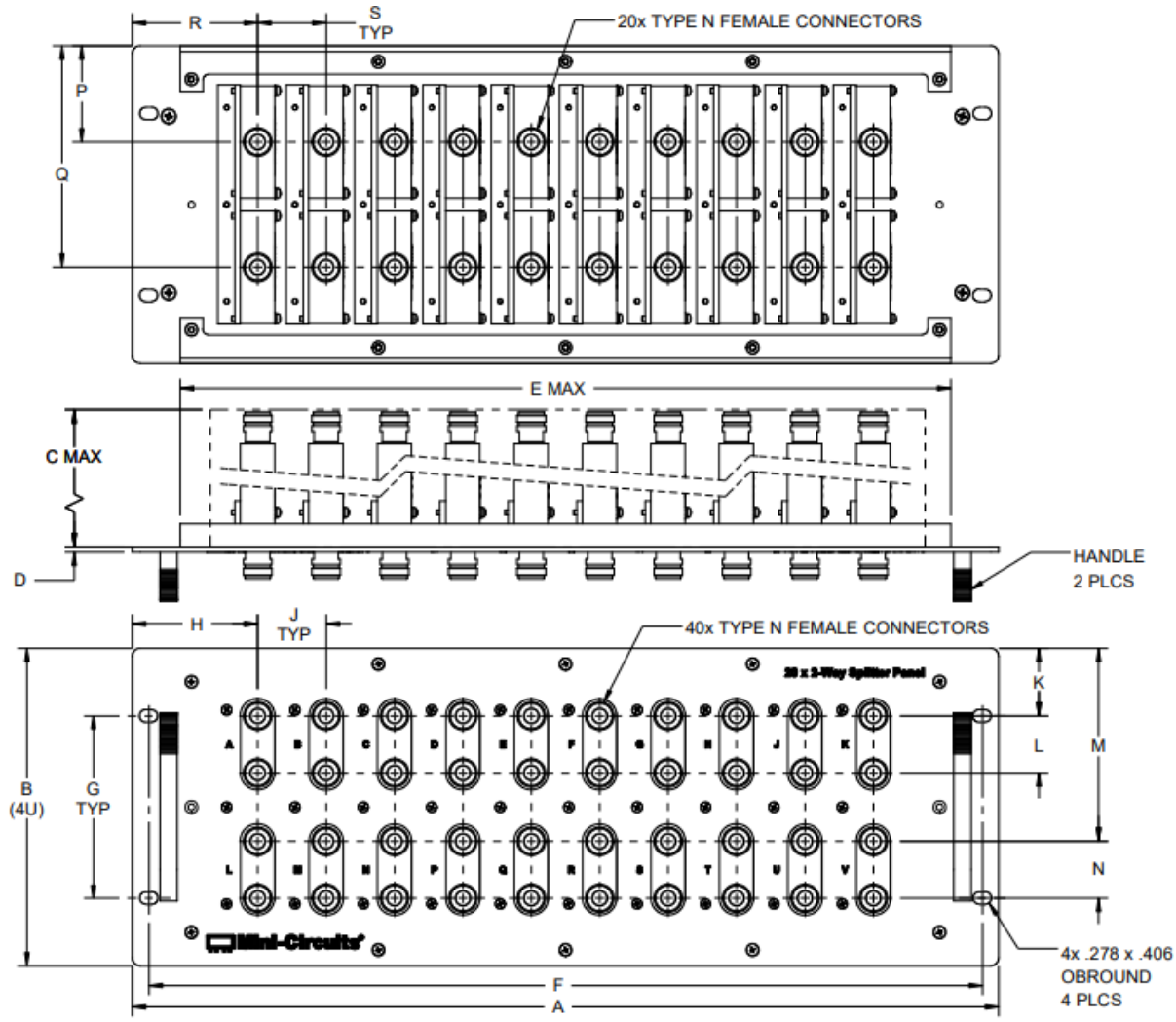
CASE STYLE DRAWING



CASE#	A	B	C	D	E	F	G	H	J	K	L	M	N
YN2274	19.00 (482.6)	6.97 (177)	4.00 (101.6)	.13 (3.2)	16.90 (429.3)	18.280 (464.31)	4.000 (101.6)	2.75 (69.9)	1.50 (38.1)	1.48 (37.7)	1.25 (31.8)	4.23 (107.6)	1.25 (31.8)

CASE#	P	Q	R	S	WT. GRAMS
YN2274	2.11 (53.6)	4.86 (123.4)	2.75 (69.9)	1.50 (38.1)	8500

Notes:

1. Case material: Aluminum (with protective coating to prevent corrosion)
2. Dimensions are in inches (mm) – Tolerances: 2 pl. ±0.03 inch; 3 pl. ±0.15 inch
3. Weight: 8.5 kg
4. Marking may contain other features or characters for internal lot control

PRODUCT MARKING

ZT-222
20 x 2-Way Splitter Panel
400-6000 MHz
Serial Number

20 x 2-Way Splitter / Combiner Panel ZT-222

50Ω 500-6000 MHz Rack-Mount N-Type Female

DETAILED MODEL INFORMATION IS AVAILABLE ON OUR WEBSITE

Ordering Information	Model Name: ZT-222 Contact Us: testsolutions@minicircuits.com
Case Style	YN2274
Environmental Rating	ENV55
Regulatory Compliance	Refer to our website for compliance methodologies and qualifications CE UKCA www.minicircuits.com/quality/environmental_introduction.html

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