

Coaxial

Power Splitter/Combiner

ZC16PD-24+

16 Way-0° 50Ω 650 to 2450 MHz

Maximum Ratings

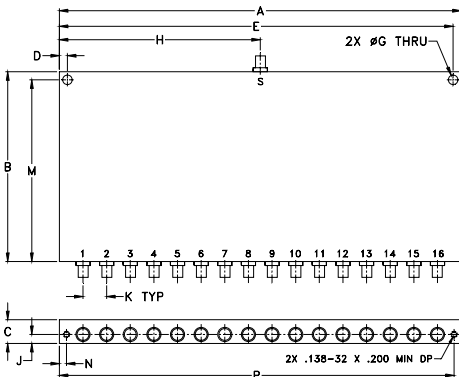
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	2.4W max.

Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections

SUM PORT	S
PORT 1,2,3,.....,16	1,2,3,.....,16

Outline Drawing



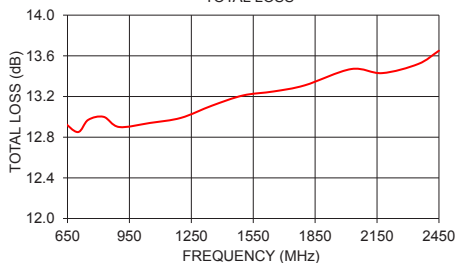
Outline Dimensions (inch/mm)

A	B	C	D	E	G	H
8.50	4.00	.50	.170	8.330	.201	4.25
215.90	101.60	12.70	4.32	211.58	5.11	107.95
J	K	M	N	P	wt	
.19	.500	3.830	.150	8.350	grams	
4.83	12.70	97.28	3.81	212.09	450	

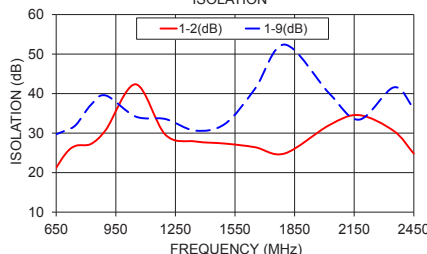
electrical schematic



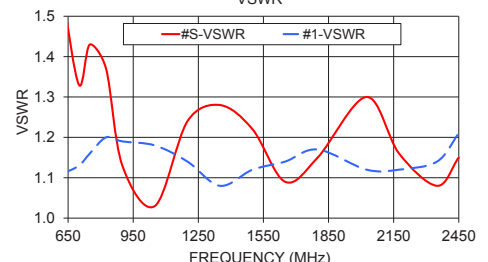
ZC16PD-24+ TOTAL LOSS



ZC16PD-24+ ISOLATION



ZC16PD-24+ VSWR



Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- The parts covered by this specification document are subject to Mini-Circuit's 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-Circuit's website at www.minicircuits.com/WCLStore/terms.jsp

Features

- wideband, 650 to 2450 MHz
- low insertion loss, 0.8 dB typ.
- good isolation, 25 dB typ.
- excellent output VSWR, 1.1:1 typ.
- up to 10W power input as splitter

Applications

- UHF
- cellular
- GPS
- communication systems
- PCS/DCS
- L-Band



CASE STYLE: UU640

Connectors	Model
SMA	ZC16PD-24-S+

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		650		2450	MHz
Insertion Loss Above 12 dB	650 - 2450	—	0.8	2.25	dB
Isolation	650 - 2450	15	20	—	dB
Phase Unbalance	650 - 2450	—	4	14	Degree
Amplitude Unbalance	650 - 2450	—	0.4	0.9	dB
VSWR (Port S)	650 - 950	—	1.3	1.9	:1
VSWR (Port 1-2)	650 - 2450	—	1.15	1.5	:1

Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)	Amplitude Unbalance (dB)	Isolation (dB)		Phase Unbalance (deg.)	VSWR S	VSWR 1
			Adjacent	Opposite			
			S-1				
625.00	12.96	0.22	19.28	29.26	1.87	1.55	1.11
700.00	12.85	0.23	24.95	30.71	1.95	1.33	1.13
750.00	12.97	0.27	26.80	32.11	1.96	1.43	1.16
825.00	13.00	0.29	27.25	37.16	2.47	1.37	1.20
900.00	12.90	0.30	30.82	39.51	2.59	1.13	1.19
1050.00	12.94	0.32	42.35	34.18	2.10	1.03	1.18
1200.00	12.99	0.25	29.56	33.55	2.88	1.24	1.14
1350.00	13.11	0.24	27.88	30.62	3.24	1.28	1.08
1500.00	13.21	0.25	27.34	32.34	3.95	1.22	1.12
1650.00	13.25	0.28	26.43	41.17	4.09	1.09	1.14
1800.00	13.31	0.30	24.83	52.40	4.29	1.15	1.17
2025.00	13.47	0.26	32.02	40.01	4.51	1.30	1.12
2175.00	13.43	0.32	34.54	33.40	5.20	1.16	1.12
2350.00	13.52	0.38	30.51	41.58	5.27	1.08	1.14
2450.00	13.65	0.42	24.81	36.25	5.66	1.15	1.21

1. Total Loss = Insertion Loss +12dB splitter loss.