Coaxial

Power Splitter/Combiner

ZC16PD-24-S+

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

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

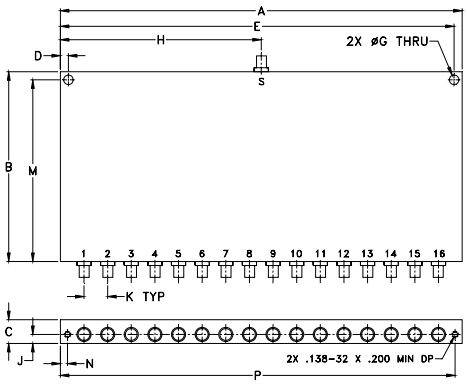
CASE STYLE: UU640

Connectors	Model
SMA	ZC16PD-24-S+

+RoHS Compliant

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

Outline Drawing

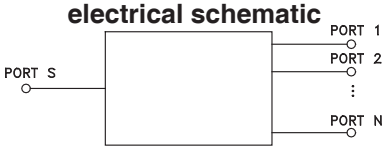


Outline Dimensions (inch / mm)

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



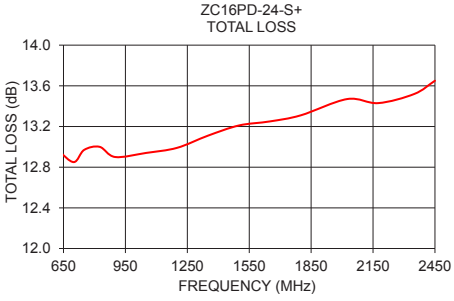
Electrical Specifications at 25°C

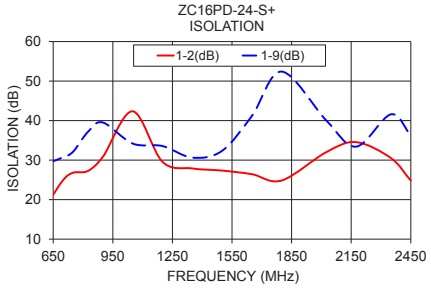
Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		650		2450	MHz
Insertion Loss Above 12 dB	650 - 2450	—	0.8	2.25	dB
Isolation	650 - 2450	15	20	—	dB
Phase Unbalance	650 - 2450	—	4	14	Degree
Amplitude Unbalance	650 - 2450	—	0.4	0.9	dB
VSWR (Port S)	650 - 950	—	1.3	1.9	:1
VSWR (Port 1-2)	650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

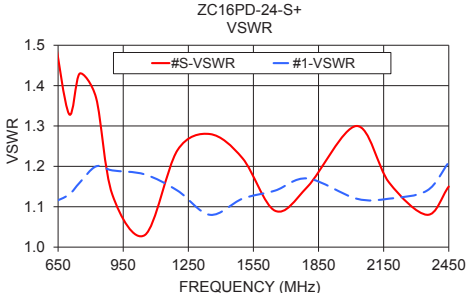
Typical Performance Data

Freq. (MHz)	Total Loss[1] (dB)	Amplitude Unbalance (dB)	Isolation (dB)		Phase Unbalance (deg.)	VSWR S	VSWR 1
	S-1		Adjacent	Opposite			
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.







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.

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