

Coaxial

Power Splitter/Combiner

ZC16PD-252-S+

16 Way-0° 50Ω 10 to 2500 MHz

Maximum Ratings

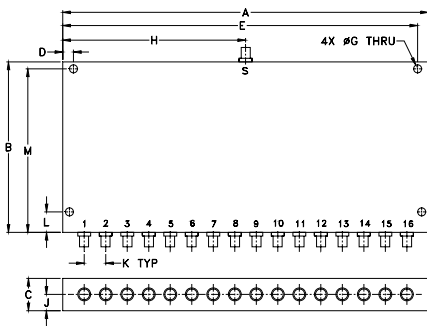
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.75W max.

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	F	G
8.50	3.95	.75	.250	8.250	—	.187
215.90	100.33	19.05	6.35	209.55	—	4.75

H	J	K	L	M	wt
4.250	.38	.500	.475	3.475	grams
107.95	9.65	12.70	12.07	88.27	710

Features

- wide frequency band 10 to 2500 MHz
- good amplitude unbalance, 0.3 dB typ.
- good phase unbalance, 5 deg. typ.

Applications

- UHF
- cellular, GPS, PCS
- communication systems



CASE STYLE: UU179

Connectors	Model
SMA	ZC16PD-252-S+

+RoHS Compliant

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

Electrical Specifications

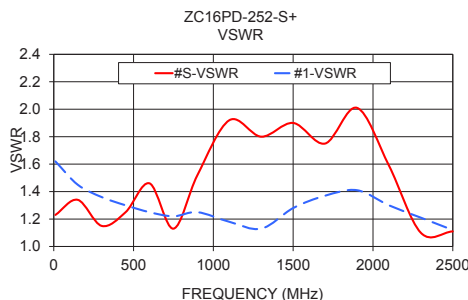
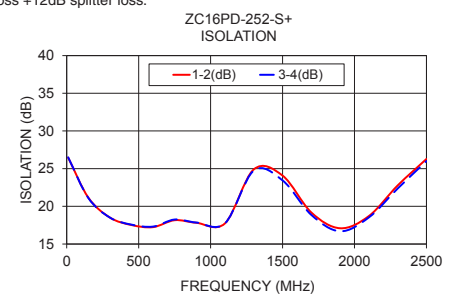
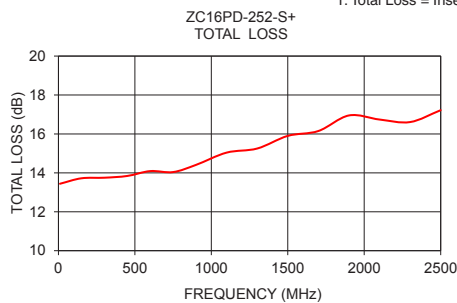
FREQ. RANGE (MHz)	ISOLATION (dB)			INSERTION LOSS (dB) ABOVE 12 dB			PHASE UNBALANCE (Degrees)			AMPLITUDE UNBALANCE (dB)								
	L	M	U	L	M	U	L	M	U	L	M	U						
f_L - f_U	Typ. Min.	Typ. Min.	Typ. Min.	Typ. Max.	Typ. Max.	Typ. Max.	Max.	Max.	Max.	Max.	Max.	Max.						
10-2500	25	20	17	14	16	14	1.5	2.8	3.2	4.5	5.5	6.5	2	10	18	0.7	0.7	1.0

L = low range [f_L to 10 f_L] M = mid range [10 f_L to $f_U/2$] U = upper range [$f_U/2$ to f_U]

Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)	Amplitude Unbalance (dB)	Isolation (dB)		Phase Unbalance (deg.)	VSWR S	VSWR 1
			1-2	3-4			
10.00	13.44	0.04	26.46	26.50	0.15	1.23	1.62
150.00	13.72	0.04	21.16	21.11	0.58	1.34	1.45
300.00	13.75	0.06	18.51	18.51	1.03	1.15	1.36
450.00	13.84	0.09	17.52	17.57	1.36	1.25	1.30
600.00	14.09	0.10	17.24	17.31	1.83	1.46	1.25
750.00	14.04	0.10	18.16	18.25	2.29	1.13	1.22
900.00	14.41	0.12	17.82	17.85	2.89	1.52	1.25
1100.00	15.04	0.12	17.74	17.75	3.68	1.92	1.18
1300.00	15.25	0.20	24.90	24.74	4.85	1.80	1.13
1500.00	15.90	0.35	24.08	23.44	5.73	1.90	1.28
1700.00	16.15	0.46	19.18	18.86	5.75	1.75	1.37
1900.00	16.95	0.47	17.09	16.69	4.97	2.01	1.41
2100.00	16.74	0.49	18.71	18.53	6.11	1.59	1.30
2300.00	16.61	0.37	22.77	22.36	6.46	1.10	1.21
2500.00	17.22	0.51	26.28	26.00	7.35	1.11	1.12

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



electrical schematic



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-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/WCLStore/terms.jsp

