Coaxial

Power Splitter/Combiner

ZC16PD-252-S+

16 Way-0° 50Ω 10 to 2500 MHz

HT-Series Tight Spot SMA Wrench From $24.95

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

Maximum Ratings

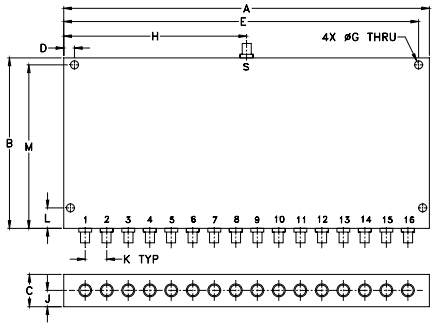
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.75W max.

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

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

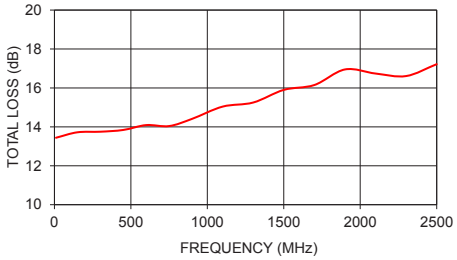
L = low range [f_L to 10 f_L] M = mid range [10 f_L to f_U/2] U= upper range [f_U/2 to f_U]

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.

ZC16PD-252-S+
TOTAL LOSS



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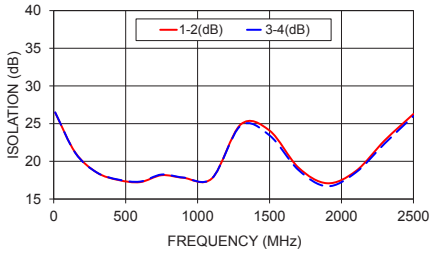
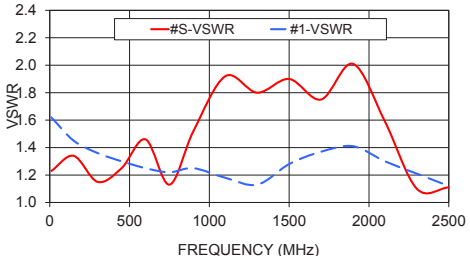
ISOLATION



ZC16PD-252-S+
VSWR



electrical schematic

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.
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