

Coaxial

NON-CATALOG

Power Splitter/Combiner

ZC16PD-2185

16 Way-0° 50Ω 1800 to 2600 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	1.75W 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

Features

- excellent VSWR, 1.1:1 typ.
- low insertion loss, 0.5 dB typ.
- high isolation, 30 dB typ.
- up to 10W power input as splitter
- rugged shielded case

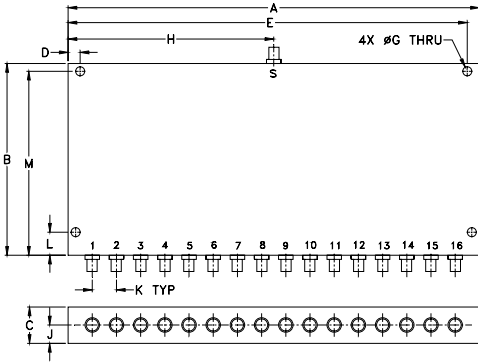
Applications

- PCS/DCS
- UMTS
- ISM
- communication systems

CASE STYLE: UU179

Connectors	Model
SMA	ZC16PD-2185-S

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	710
107.95	9.65	12.70	12.07	88.27		

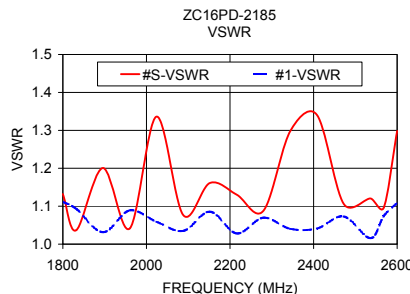
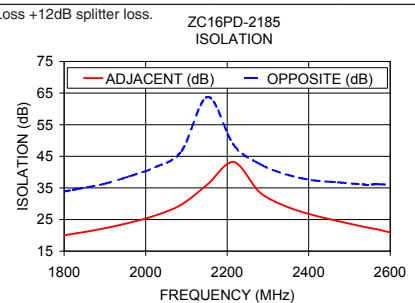
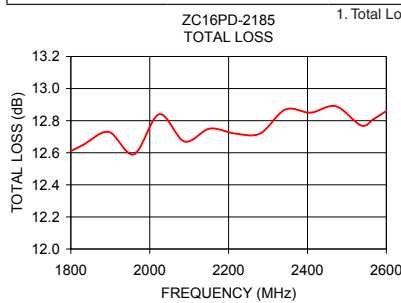
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 12 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
	Typ.	Min.	Typ.	Max.			S		OUT	
$f_c - f_u$					Max.	Max.	Typ.	Max.	Typ.	Max.
1800-2600	30	16	0.5	1.4	6	0.7	1.15	1.6	1.05	1.3

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				
1800.00	12.61	0.19	20.04	33.87	4.68	1.13	1.11
1832.00	12.65	0.13	20.67	34.66	3.93	1.04	1.09
1896.00	12.73	0.12	22.14	36.22	3.65	1.20	1.03
1960.00	12.59	0.16	23.99	38.65	3.98	1.04	1.09
2024.00	12.84	0.14	26.31	41.58	3.27	1.34	1.06
2088.00	12.67	0.17	29.75	46.68	4.02	1.08	1.03
2152.00	12.75	0.23	36.16	63.79	3.92	1.16	1.09
2216.00	12.72	0.15	43.18	48.61	4.30	1.13	1.03
2280.00	12.72	0.28	33.63	42.58	4.66	1.09	1.07
2344.00	12.87	0.22	29.19	39.32	4.40	1.30	1.04
2408.00	12.85	0.23	26.51	37.47	4.27	1.34	1.04
2472.00	12.89	0.21	24.51	36.76	3.86	1.11	1.07
2536.00	12.77	0.26	22.68	36.09	4.78	1.12	1.02
2568.00	12.81	0.45	21.89	36.16	4.55	1.10	1.07
2600.00	12.86	0.28	20.92	35.99	3.31	1.30	1.11

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.
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