

Coaxial

Power Splitter/Combiner

ZC16PD-2185

16 Way-0° 50Ω 1800 to 2600 MHz

Maximum Ratings

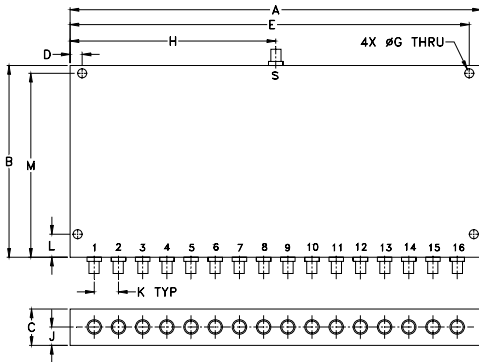
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	1.75W max.

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

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

- 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

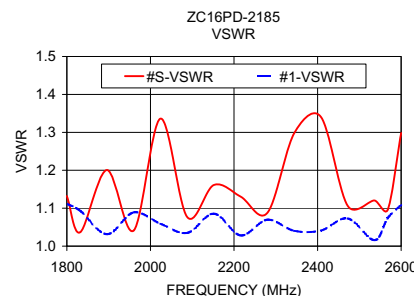
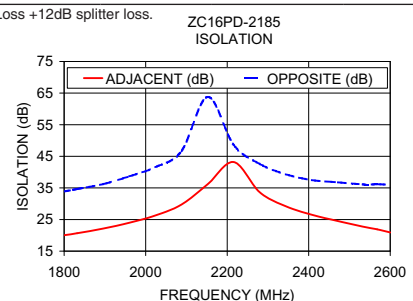
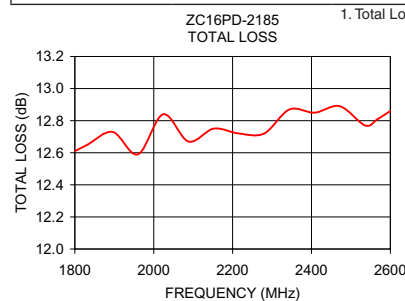
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 12 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
f_L - f_U	Typ.	Min.	Typ.	Max.	Max.	Max.	S		OUT	
1800-2600	30	16	0.5	1.4	6	0.7	Typ.	Max.	Typ.	Max.

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



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