

Coaxial

Power Splitter/Combiner

ZC16PD-2185

16 Way-0° 50Ω 1800 to 2600 MHz

Maximum Ratings

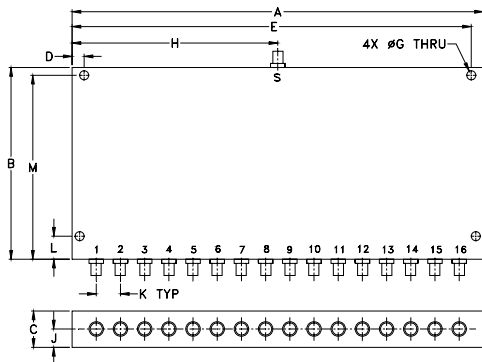
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	1.75W max.

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	710
107.95	9.65	12.70	12.07	88.27		

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

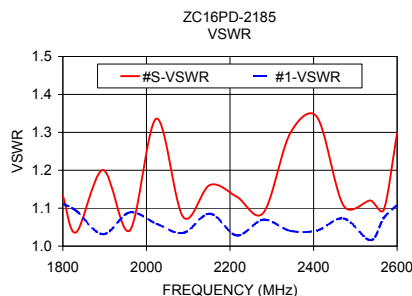
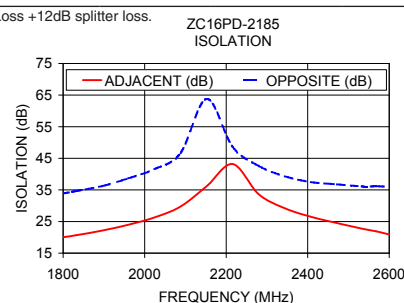
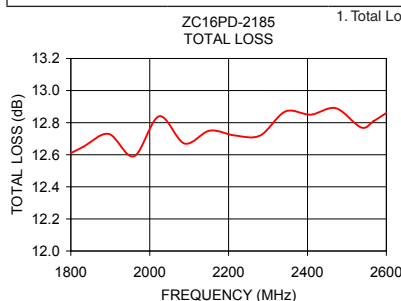
Electrical Specifications

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 Typ. Max. OUT 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 Loss¹ (dB)	Amplitude Unbalance (dB)	Isolation (dB)		Phase Unbalance (deg.)	VSWR S	VSWR 1
	S-1		Adjacent	Opposite			
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

- 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.
 C. 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/MCLStore/terms.jsp



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