

Coaxial

Power Splitter/Combiner

16 Way-0° 50Ω 1800 to 2600 MHz

ZC16PD-2185

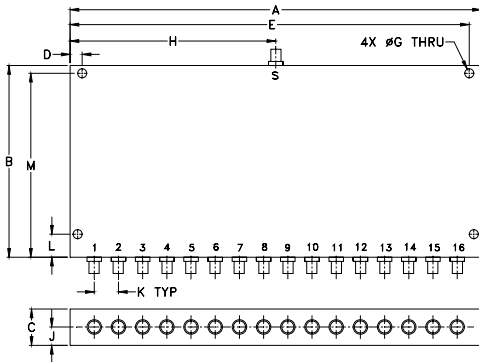
Maximum Ratings

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

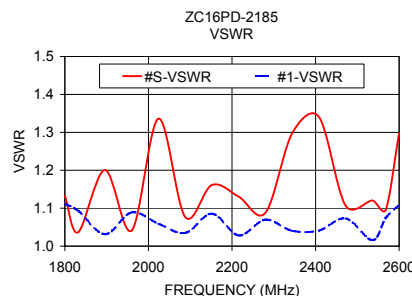
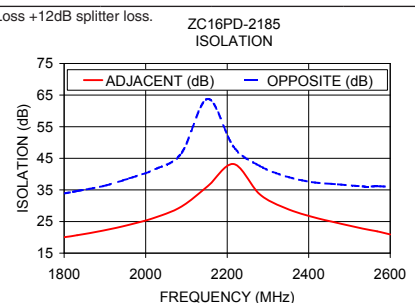
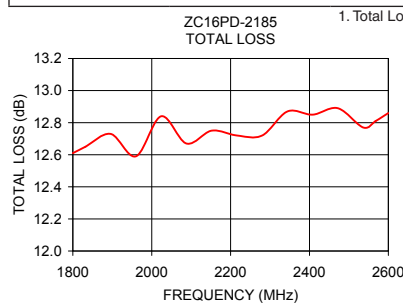
Electrical Specifications

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.
							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
	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



CASE STYLE: UU179

Connectors	Model
SMA	ZC16PD-2185-S

16 Way-0° Power Splitter/Combiner

ZC16PD-2185

Typical Performance Data

FREQ. (MHz)	TOTAL LOSS ¹ (dB)	AMP. UNBAL. (dB)	ISOLATION (dB)		FREQ. (MHz)	VSWR (:1)	
			Adjacent	Opposite		S	OUTPUTS
1800.0	12.55	0.25	21.08	38.52	1880.0	1.02	1.29
1852.0	12.66	0.35	23.33	39.96	1880.0	1.01	1.25
1960.0	12.43	0.23	25.42	40.09	1960.0	1.01	1.23
2040.0	12.46	0.21	29.73	43.64	2040.0	1.01	1.21
2100.0	12.47	0.23	36.51	47.80	2100.0	1.01	1.16
2152.0	12.48	0.25	63.21	53.75	2152.0	1.01	1.10
2184.0	12.48	0.26	41.36	58.87	2184.0	1.01	1.06
2232.0	12.49	0.26	33.74	62.29	2232.0	1.02	1.05
2260.0	12.51	0.26	31.42	56.86	2260.0	1.03	1.08
2300.0	12.53	0.26	29.12	55.06	2300.0	1.04	1.13
2324.0	12.54	0.25	28.10	54.84	2324.0	1.05	1.16
2400.0	12.51	0.23	25.55	49.70	2400.0	1.06	1.19
2480.0	12.48	0.30	23.27	44.76	2480.0	1.08	1.10
2552.0	12.48	0.31	21.19	41.17	2552.0	1.08	1.05
2600.0	12.51	0.35	19.87	39.63	2600.0	1.09	1.20

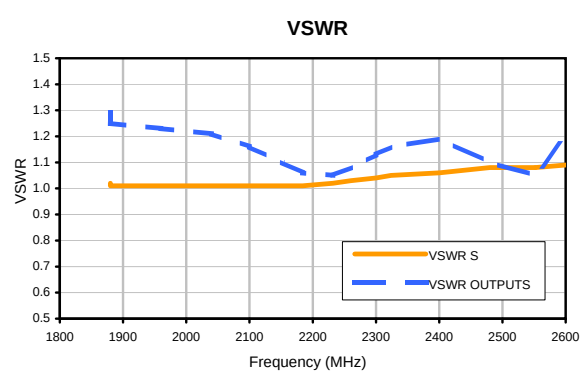
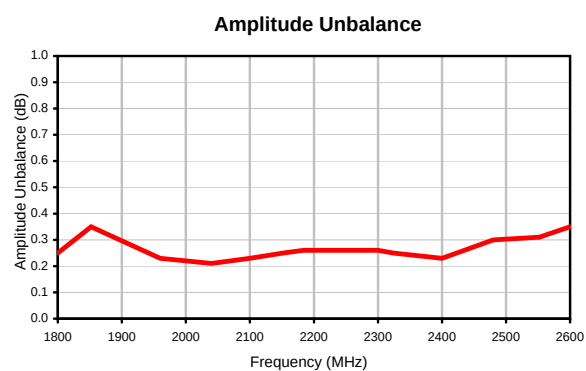
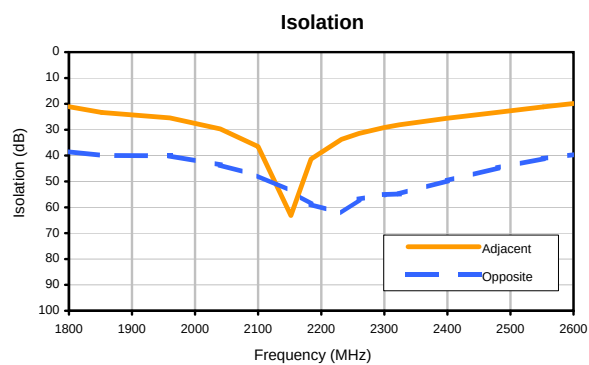
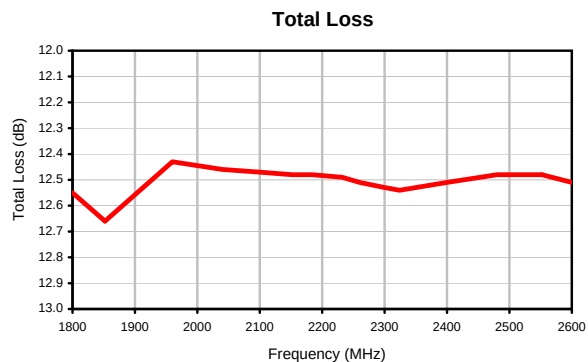
¹ Total Loss = Insertion Loss+ 12dB Splitter Loss

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16 Way-0° Power Splitter/Combiner

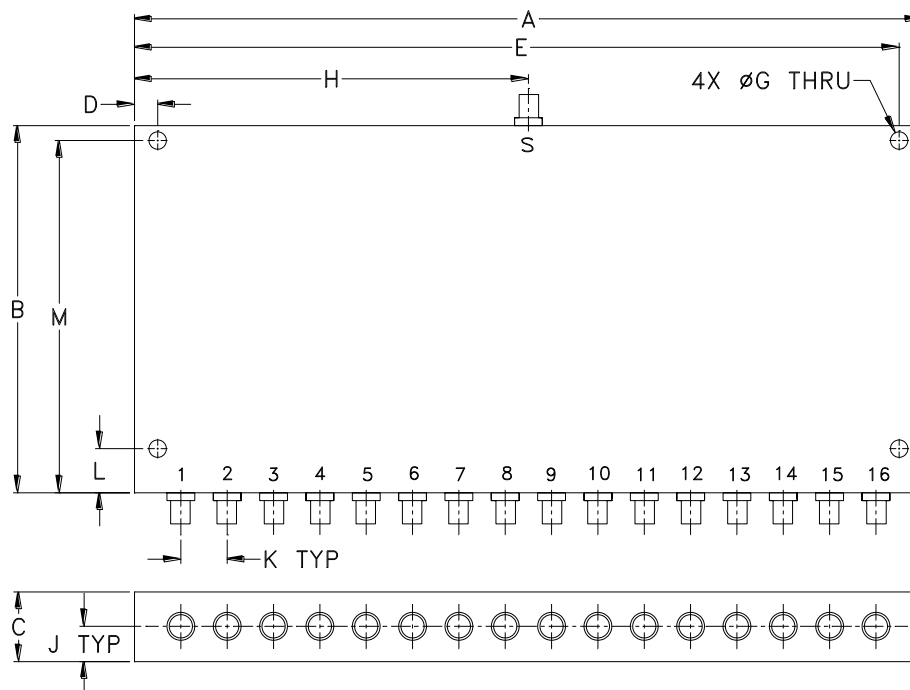
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Typical Performance Curves



Outline Dimensions

UU179



CASE#	A	B	C	D	E	F	G	H	J	K	L	M	WT. GRAMS
UU179	8.50 (215.90)	3.95 (100.33)	.75 (19.05)	.250 (6.35)	8.250 (209.55)	--	.187 (4.75)	4.250 (107.95)	.38 (9.65)	.500 (12.70)	.475 (12.07)	3.475 (88.27)	710

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .03$; 3 Pl. $\pm .015$

Notes:

- Case material: Aluminum alloy.
- Case finish:
For RoHS Case Styles: Clear chemical conversion coating, non-chrome or trivalent chrome based.
- Refer to the individual model data sheet for the type of connectors available.



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



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RF/IF MICROWAVE COMPONENTS

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All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-55° to 100°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Barometric Pressure	100,000 Feet	MIL-STD-202, Method 105, Condition D
Humidity	90% RH, 65°C Units may require bake-out after humidity to restore full performance.	MIL-STD-202, Method 103
Thermal Shock	-65° to 125°C, 5 cycles	MIL-STD-202, Method 107, Condition B