

Coaxial

Power Splitter/Combiner

ZC16PD-1900

16 Way-0° 50Ω 1700 to 1900 MHz

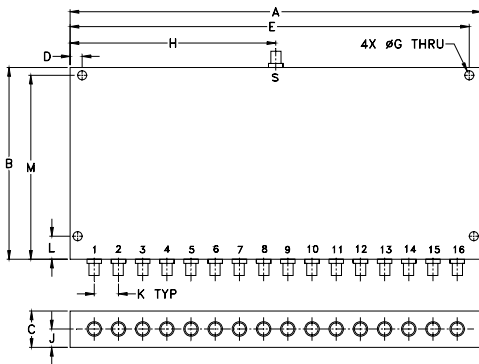
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	2.4W 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

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

Applications

- DCS
- communication systems



CASE STYLE: UU179

Connectors	Model
SMA	ZC16PD-1900-S

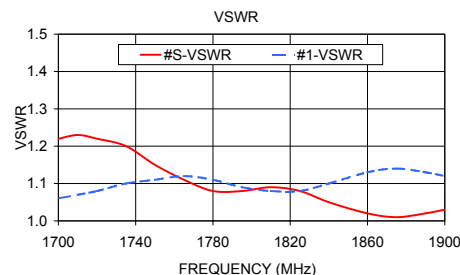
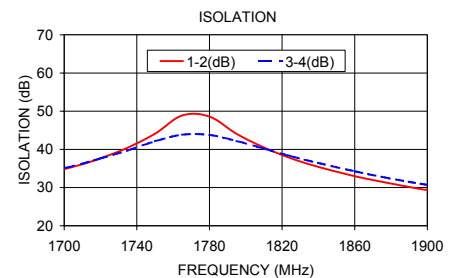
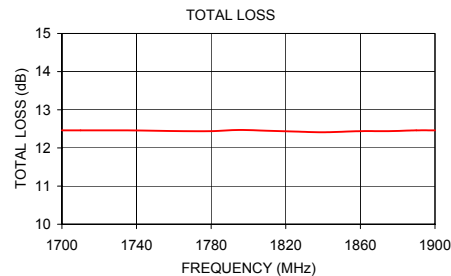
Electrical Specifications

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.
1700-1900	30 20	0.5 1.0	—	0.8	1.15 1.35 1.06 1.3

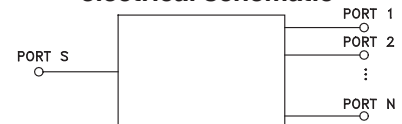
Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)	Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1
	S-1		1-2 3-4			
1700.00	12.46	0.20	34.83 35.07	7.74	1.22	1.06
1710.00	12.46	0.18	36.13 36.27	9.14	1.23	1.07
1720.00	12.46	0.22	37.67 37.62	9.21	1.22	1.08
1735.00	12.46	0.29	40.45 39.74	9.41	1.20	1.10
1750.00	12.45	0.17	44.13 42.13	9.53	1.15	1.11
1765.00	12.44	0.18	48.90 43.85	9.55	1.11	1.12
1780.00	12.44	0.22	48.59 43.79	9.22	1.08	1.11
1795.00	12.47	0.27	44.06 42.19	9.38	1.08	1.09
1810.00	12.45	0.28	40.49 40.20	9.36	1.09	1.08
1825.00	12.43	0.29	37.66 38.20	9.53	1.08	1.08
1840.00	12.41	0.27	35.42 36.43	9.48	1.05	1.10
1860.00	12.44	0.25	32.99 34.26	9.44	1.02	1.13
1875.00	12.44	0.27	31.51 32.80	9.75	1.01	1.14
1890.00	12.46	0.25	30.16 31.50	9.80	1.02	1.13
1900.00	12.46	0.24	29.31 30.69	9.73	1.03	1.12

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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 REV. C
 M153690
 ZC16PD-1900
 HY/TD/CP/AM
 151116

16 Way-0° Power Splitter/Combiner

ZC16PD-1900+

Typical Performance Data

FREQ. (MHz)	TOTAL LOSS ¹ (dB) S-1	AMP. UNBAL. (dB)	ISOLATION (dB)		PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1)	
			1-2	3-4			S	1
1700.0	12.46	0.20	34.83	35.07	7.74	1700.0	1.22	1.06
1705.0	12.46	0.18	35.51	35.68	9.02	1705.0	1.23	1.06
1710.0	12.46	0.18	36.13	36.27	9.14	1710.0	1.23	1.07
1715.0	12.45	0.21	36.83	36.92	9.19	1715.0	1.23	1.07
1720.0	12.46	0.22	37.67	37.62	9.21	1720.0	1.22	1.08
1725.0	12.46	0.26	38.56	38.32	9.38	1725.0	1.21	1.08
1730.0	12.47	0.33	39.50	39.10	9.39	1730.0	1.21	1.09
1735.0	12.46	0.29	40.45	39.74	9.41	1735.0	1.20	1.10
1740.0	12.45	0.24	41.68	40.60	9.37	1740.0	1.18	1.10
1745.0	12.45	0.20	42.99	41.34	9.48	1745.0	1.17	1.11
1750.0	12.45	0.17	44.13	42.13	9.53	1750.0	1.15	1.11
1755.0	12.45	0.18	45.84	42.83	9.54	1755.0	1.14	1.11
1760.0	12.45	0.19	47.25	43.43	9.52	1760.0	1.12	1.12
1765.0	12.44	0.18	48.90	43.85	9.55	1765.0	1.11	1.12
1770.0	12.44	0.19	49.83	44.09	9.38	1770.0	1.10	1.11
1775.0	12.44	0.20	49.62	44.05	9.25	1775.0	1.09	1.11
1780.0	12.44	0.22	48.59	43.79	9.22	1780.0	1.08	1.11
1785.0	12.45	0.24	47.14	43.39	9.09	1785.0	1.08	1.10
1790.0	12.45	0.27	45.66	42.92	9.34	1790.0	1.08	1.10
1795.0	12.47	0.27	44.06	42.19	9.38	1795.0	1.08	1.09
1800.0	12.46	0.30	42.69	41.65	9.42	1800.0	1.08	1.08
1805.0	12.45	0.31	41.52	40.88	9.42	1805.0	1.09	1.08
1810.0	12.45	0.28	40.49	40.20	9.36	1810.0	1.09	1.08
1815.0	12.45	0.28	39.44	39.58	9.30	1815.0	1.08	1.07
1820.0	12.44	0.29	38.51	38.93	9.37	1820.0	1.08	1.08
1825.0	12.43	0.29	37.66	38.20	9.53	1825.0	1.08	1.08
1830.0	12.43	0.27	36.89	37.62	9.58	1830.0	1.07	1.08
1835.0	12.42	0.27	36.06	36.95	9.44	1835.0	1.06	1.09
1840.0	12.41	0.27	35.42	36.43	9.48	1840.0	1.05	1.10
1845.0	12.41	0.27	34.75	35.79	9.48	1845.0	1.05	1.11
1850.0	12.42	0.26	34.15	35.27	9.47	1850.0	1.04	1.11
1855.0	12.43	0.26	33.58	34.75	9.40	1855.0	1.03	1.12
1860.0	12.44	0.25	32.99	34.26	9.44	1860.0	1.02	1.13
1865.0	12.44	0.27	32.48	33.78	9.44	1865.0	1.01	1.13
1870.0	12.44	0.26	31.98	33.29	9.48	1870.0	1.00	1.13
1875.0	12.44	0.27	31.51	32.80	9.75	1875.0	1.01	1.14
1880.0	12.44	0.26	31.02	32.38	9.61	1880.0	1.02	1.14
1885.0	12.44	0.26	30.57	31.94	9.70	1885.0	1.02	1.13
1890.0	12.46	0.25	30.16	31.50	9.80	1890.0	1.02	1.13
1895.0	12.46	0.27	29.74	31.07	9.74	1895.0	1.03	1.13
1900.0	12.46	0.24	29.31	30.69	9.73	1900.0	1.03	1.12

¹ Total Loss = Insertion Loss+ 12dB Splitter Loss



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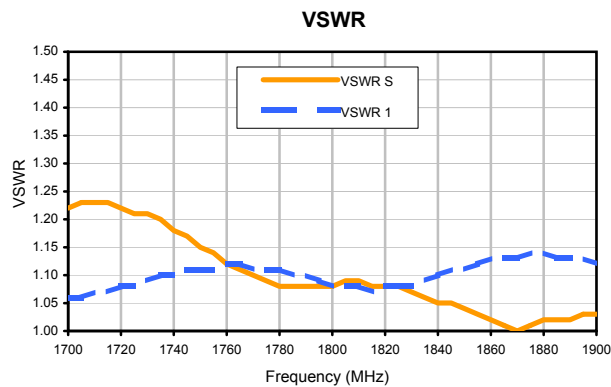
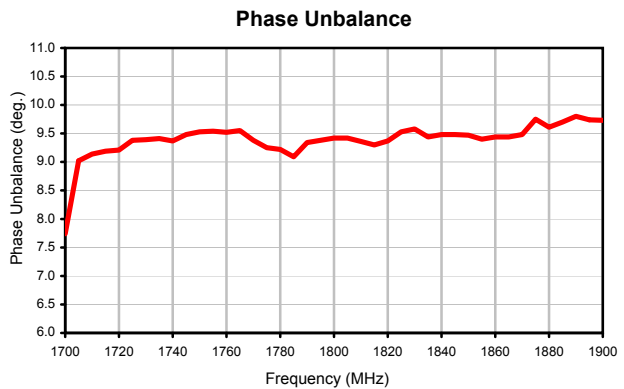
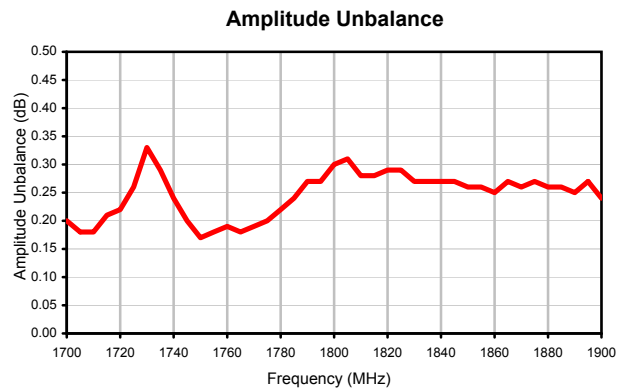
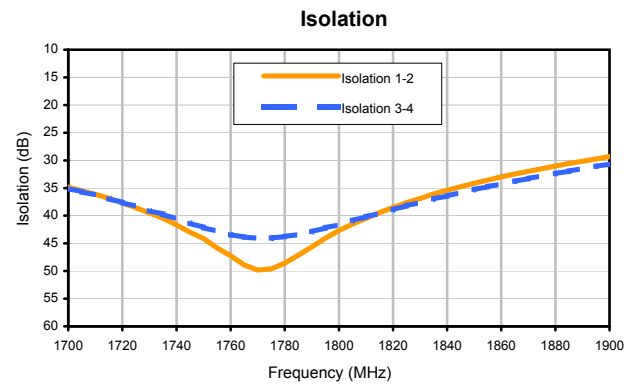
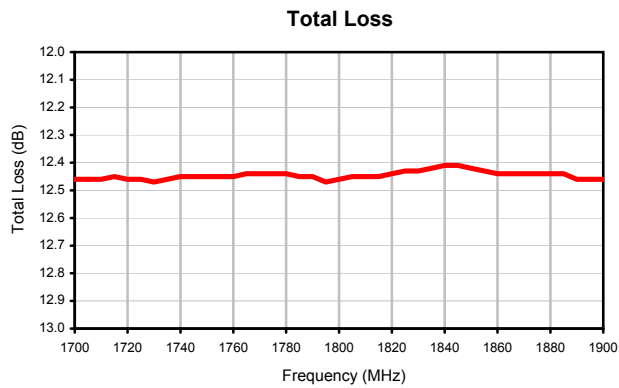
For detailed performance specs
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16 Way-0° Power Splitter/Combiner

ZC16PD-1900+

Typical Performance Curves

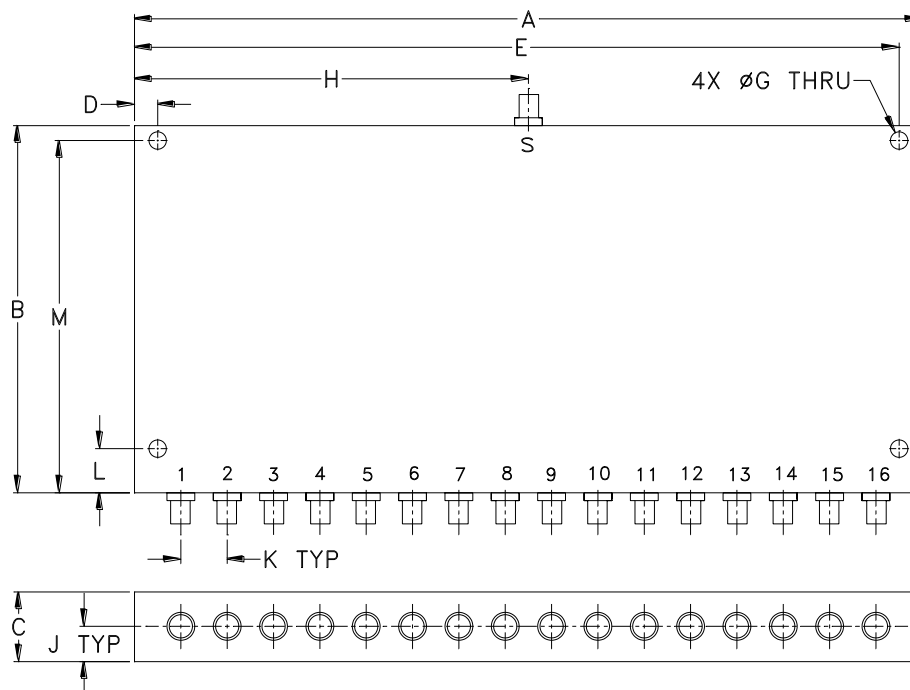


Case Style

UU

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:

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

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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