

Engineering Development Model

Power Splitter/Combiner

16 Way-0°

ZC16PD-ED12956/1

Important Note

This model has been designed, built and tested in our engineering department. Performance data represents model capability. At present it is a non-catalog model. On request, we can supply a final specification sheet, part number and price/delivery information.



Please click "Back", and then click "Contact Us" for Applications support.

CASE STYLE : UU179

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter		Min.	Typ.	Max. Units
Frequency		10		2500 MHz
Isolation	10 - 100 MHz		23	dB
	100 - 1250 MHz		17	dB
	1250 - 2500 MHz		16	dB
	10 - 100 MHz		1.50	dB
	100 - 1250 MHz		2.50	dB
	1250 - 2500 MHz		5.00	dB
Phase Unbalance	10 - 100 MHz		0.317	deg.
	100 - 1250 MHz		2.394	deg.
	1250 - 2500 MHz		9.342	deg.
Amplitude Unbalance	10 - 100 MHz		0.245	dB
	100 - 1250 MHz		0.229	dB
	1250 - 2500 MHz		0.416	dB
VSWR	SUM Port		1.60	(:1)
	OUT Ports		1.40	(:1)

MAXIMUM RATINGS	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C

Functional Diagram



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Typical Performance Data

FREQ. (MHz)	TOTAL LOSS ¹ (dB)	AMP. UNBAL. (dB)	ISOLATION (dB)		PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1)	
			Adjacent	Opposite			S	OUTPUTS
0.3	15.67	0.24	35.51	37.21	0.89	0.3	2.50	8.44
0.5	15.01	0.16	32.93	38.12	0.80	0.5	1.89	5.58
1.0	14.36	0.11	30.02	39.82	0.54	1.0	1.51	3.64
1.5	14.05	0.09	28.85	41.13	0.46	1.5	1.39	2.94
2.0	13.86	0.07	28.26	42.15	0.40	2.0	1.33	2.57
2.5	13.76	0.07	27.90	43.06	0.39	2.5	1.30	2.33
3.0	13.68	0.06	27.66	43.73	0.34	3.0	1.28	2.17
3.5	13.62	0.06	27.48	44.32	0.32	3.5	1.26	2.06
4.0	13.58	0.06	27.33	44.84	0.30	4.0	1.25	1.97
4.5	13.55	0.05	27.21	45.23	0.29	4.5	1.25	1.90
5.0	13.53	0.05	27.07	45.61	0.27	5.0	1.24	1.85
5.5	13.51	0.05	26.97	45.88	0.25	5.5	1.24	1.80
6.0	13.49	0.04	26.87	46.14	0.23	6.0	1.24	1.77
6.5	13.48	0.04	26.78	46.36	0.20	6.5	1.24	1.74
7.0	13.47	0.04	26.71	46.54	0.20	7.0	1.23	1.71
7.5	13.47	0.04	26.65	46.72	0.19	7.5	1.23	1.69
8.0	13.46	0.04	26.59	46.86	0.18	8.0	1.23	1.67
9.0	13.45	0.04	26.52	47.13	0.16	9.0	1.23	1.64
10.0	13.44	0.04	26.46	47.30	0.15	10.0	1.23	1.62
20.0	13.45	0.03	26.17	48.14	0.09	20.0	1.23	1.54
40.0	13.50	0.03	25.53	48.45	0.15	40.0	1.25	1.52
60.0	13.55	0.03	24.72	48.38	0.24	60.0	1.27	1.51
80.0	13.59	0.03	23.83	48.31	0.32	80.0	1.30	1.50
100.0	13.64	0.03	22.97	48.10	0.39	100.0	1.32	1.48
150.0	13.72	0.04	21.16	47.53	0.58	150.0	1.34	1.45
200.0	13.77	0.05	19.88	46.66	0.83	200.0	1.33	1.42
250.0	13.77	0.06	19.04	45.86	0.91	250.0	1.26	1.38
300.0	13.75	0.06	18.51	44.95	1.03	300.0	1.15	1.36
350.0	13.74	0.08	18.13	44.17	1.14	350.0	1.04	1.33
400.0	13.77	0.09	17.81	43.45	1.25	400.0	1.11	1.32
450.0	13.84	0.09	17.52	42.84	1.36	450.0	1.25	1.30
500.0	13.94	0.09	17.29	42.37	1.51	500.0	1.38	1.29
550.0	14.04	0.10	17.19	41.91	1.68	550.0	1.46	1.27
600.0	14.09	0.10	17.24	41.52	1.83	600.0	1.46	1.25
800.0	14.08	0.11	18.33	40.44	2.44	800.0	1.12	1.23
900.0	14.41	0.12	17.82	40.57	2.89	900.0	1.52	1.25
1000.0	14.84	0.12	17.23	40.89	3.23	1000.0	1.86	1.23
1100.0	15.04	0.12	17.74	41.01	3.68	1100.0	1.92	1.18
1200.0	15.06	0.14	20.08	41.12	4.26	1200.0	1.80	1.11
1300.0	15.25	0.20	24.90	41.61	4.85	1300.0	1.80	1.13
1400.0	15.63	0.27	27.75	42.54	5.35	1400.0	1.91	1.21
1500.0	15.90	0.35	24.08	43.49	5.73	1500.0	1.90	1.28
1600.0	15.98	0.43	21.20	44.54	5.85	1600.0	1.76	1.33
1700.0	16.15	0.46	19.18	45.72	5.75	1700.0	1.75	1.37
1800.0	16.56	0.46	17.74	47.18	5.80	1800.0	1.91	1.41
1900.0	16.95	0.47	17.09	48.00	4.97	1900.0	2.01	1.41
2000.0	16.99	0.51	17.36	47.96	5.85	2000.0	1.87	1.37
2100.0	16.74	0.49	18.71	46.94	6.11	2100.0	1.59	1.30
2200.0	16.54	0.44	20.81	45.88	6.21	2200.0	1.30	1.24
2300.0	16.61	0.37	22.77	45.29	6.46	2300.0	1.10	1.21
2400.0	16.86	0.44	24.27	45.21	6.80	2400.0	1.02	1.17
2500.0	17.22	0.51	26.28	45.18	7.35	2500.0	1.11	1.12
2600.0	17.66	0.63	28.33	44.50	8.90	2600.0	1.17	1.11

¹ Total Loss = Insertion Loss+ 12dB Splitter Loss

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ZC16PD_ED12956/1
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Page 1 of 1



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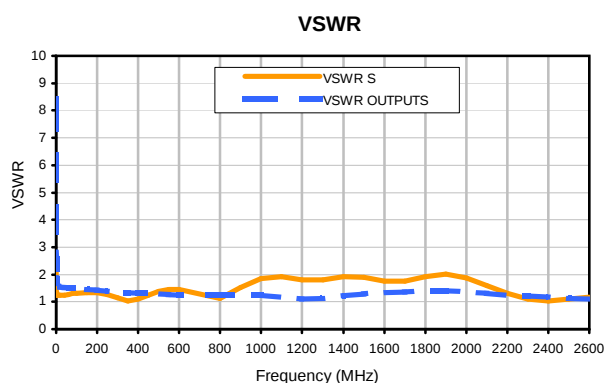
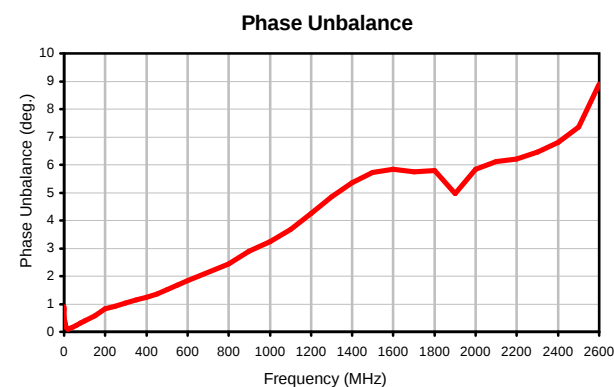
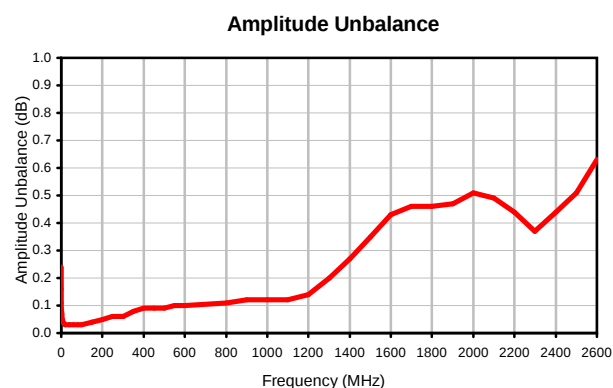
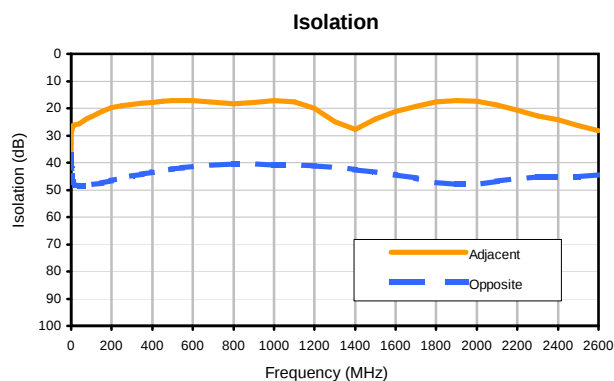
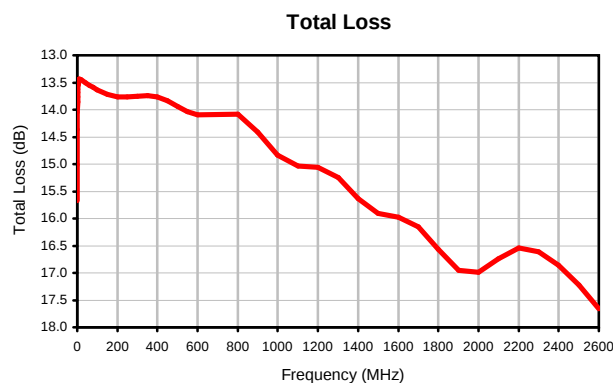


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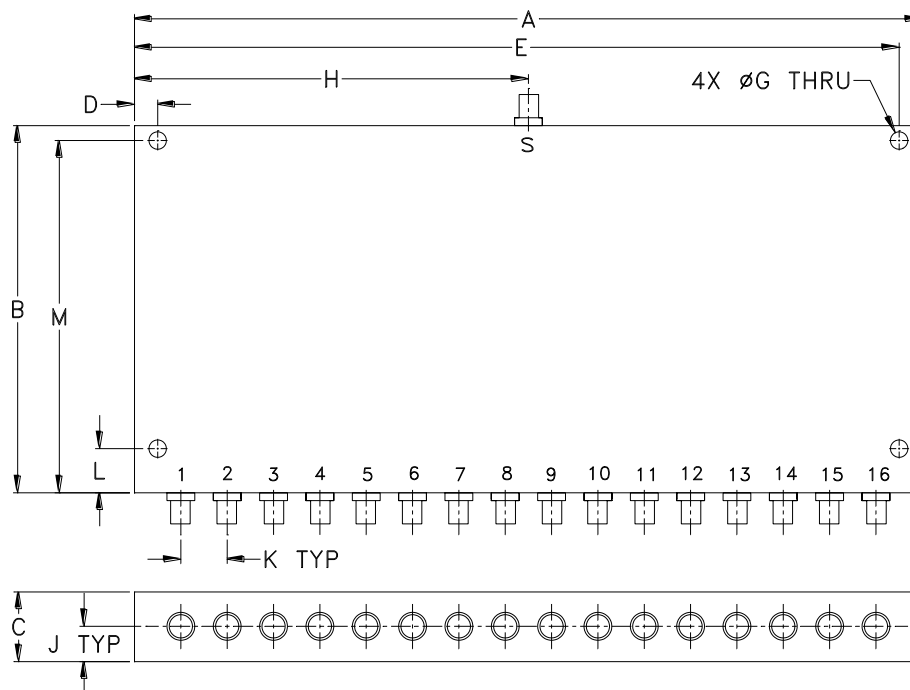
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Typical Performance Curves



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.



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RF/IF MICROWAVE COMPONENTS



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	-40° to 85°C	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
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	100g, 6ms sawtooth, 3 shocks each direction 3 axes (total 18)	MIL-STD-202, Method 213, Condition I