

Engineering Development Model

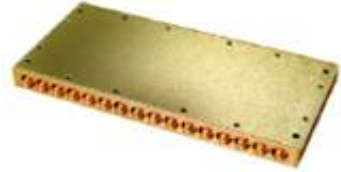
Power Splitter/Combiner

ZC16PD-ED7931/1

16 Way-0°

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.



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CASE STYLE : UU640

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter		Min.	Typ.	Max. Units
Frequency		550		2525 MHz
Isolation	550 - 2525 MHz		34	dB
Insertion Loss Above 12.0 Db	550 - 2525 MHz		1.08	dB
Phase Unbalance	550 - 2525 MHz		5.934	deg.
Amplitude Unbalance	550 - 2525 MHz		0.342	dB
VSWR	SUM Port		1.28	(:1)
	OUT Ports		1.12	(:1)

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

PIN CONNECTIONS	
SUM PORT	S
PORT 1	1
PORT 2	2
PORT 3	3
PORT 4	4
PORT 5	5
PORT 6	6
PORT 7	7
PORT 8	8
PORT 9	9
PORT 10	10
PORT 11	11
PORT 12	12
PORT 13	13
PORT 14	14
PORT 15	15
PORT 16	16

Functional Diagram



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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	4-5			S	1
550.0	13.01	0.30	15.52	29.14	2.39	550.0	2.00	1.09
587.5	13.11	0.30	16.87	29.78	2.21	587.5	1.92	1.09
625.0	12.89	0.30	18.85	30.31	2.58	625.0	1.70	1.08
662.5	12.72	0.29	21.78	31.00	2.59	662.5	1.46	1.06
700.0	12.72	0.26	25.81	31.95	2.76	700.0	1.35	1.06
750.0	12.80	0.26	30.91	33.81	2.66	750.0	1.40	1.10
825.0	12.88	0.20	30.70	36.16	2.94	825.0	1.41	1.17
900.0	12.77	0.18	33.55	36.17	3.04	900.0	1.22	1.20
975.0	12.76	0.21	36.11	35.40	4.02	975.0	1.06	1.19
1050.0	12.79	0.25	33.00	35.20	4.02	1050.0	1.04	1.20
1125.0	12.81	0.27	28.41	35.01	4.28	1125.0	1.11	1.20
1200.0	12.82	0.29	25.29	35.23	5.26	1200.0	1.19	1.17
1275.0	12.98	0.25	24.29	36.13	5.43	1275.0	1.25	1.14
1350.0	12.95	0.26	24.49	37.82	5.41	1350.0	1.24	1.12
1425.0	12.90	0.25	25.35	40.41	5.55	1425.0	1.14	1.11
1500.0	12.98	0.29	26.20	44.33	5.83	1500.0	1.14	1.10
1575.0	13.02	0.29	26.47	51.39	6.41	1575.0	1.16	1.10
1650.0	13.00	0.30	27.47	54.14	6.31	1650.0	1.07	1.09
1725.0	13.03	0.29	28.04	48.07	6.74	1725.0	1.11	1.09
1800.0	13.11	0.30	27.94	47.34	7.89	1800.0	1.13	1.09
1875.0	13.13	0.32	30.37	44.80	7.98	1875.0	1.06	1.07
1950.0	13.22	0.34	36.42	41.22	7.62	1950.0	1.18	1.05
2025.0	13.24	0.38	54.30	39.40	7.30	2025.0	1.22	1.03
2100.0	13.24	0.39	35.81	38.77	7.60	2100.0	1.17	1.04
2175.0	13.19	0.39	30.71	40.57	7.20	2175.0	1.12	1.06
2250.0	13.27	0.43	31.00	47.86	7.75	2250.0	1.07	1.08
2350.0	13.31	0.50	27.22	47.07	8.59	2350.0	1.01	1.14
2385.0	13.31	0.53	25.56	43.88	8.48	2385.0	1.07	1.16
2420.0	13.44	0.54	24.37	41.79	9.44	2420.0	1.19	1.19
2455.0	13.46	0.57	23.38	39.60	9.92	2455.0	1.37	1.22
2490.0	13.70	0.58	22.84	37.58	9.46	2490.0	1.58	1.24
2525.0	14.02	0.62	22.74	35.58	10.23	2525.0	1.78	1.26

¹ Total Loss = Insertion Loss + 12dB Splitter Loss

REV. X2

ZC16PD-ED7931/1

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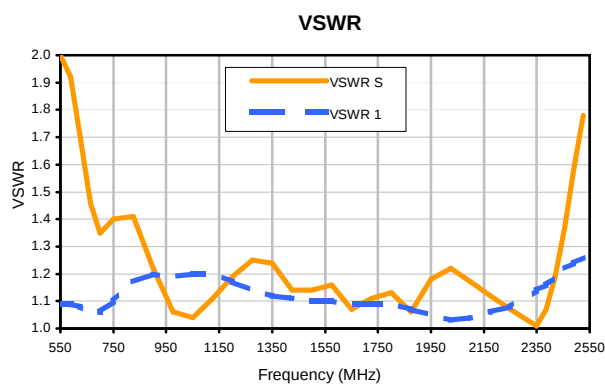
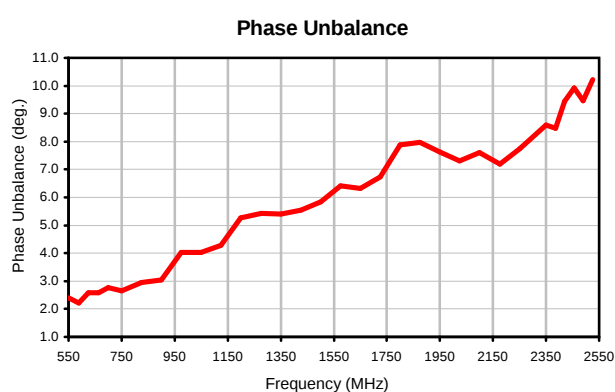
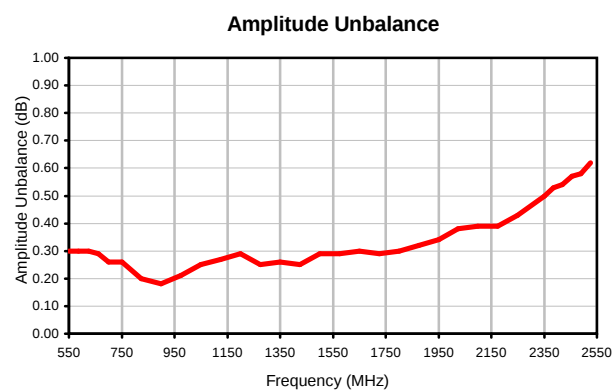
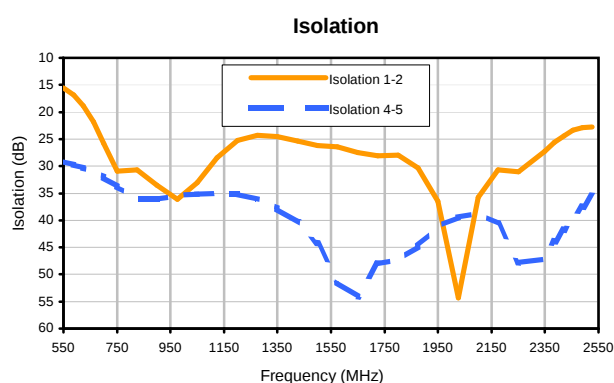
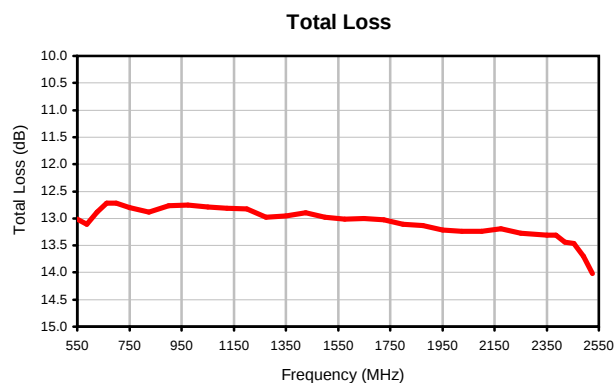
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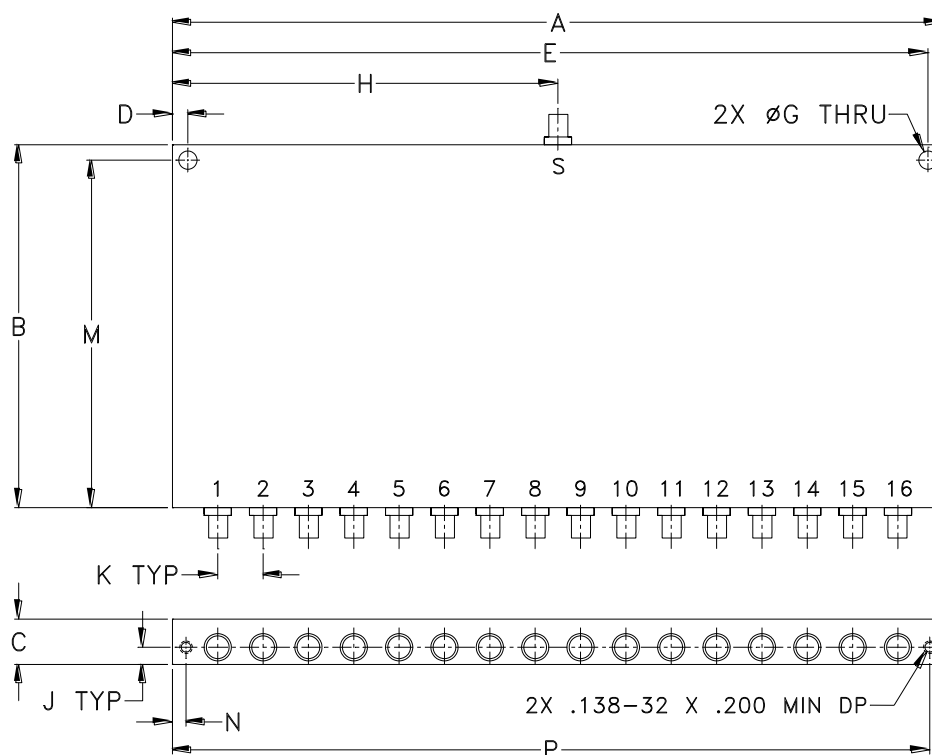
Typical Performance Curves



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Outline Dimensions

UU640



CASE#	A	B	C	D	E	F	G	H	J	K	L	M
UU640	8.50 (215.90)	4.00 (101.60)	.50 (12.70)	.170 (4.32)	8.330 (211.58)	--	.201 (5.11)	4.25 (107.95)	.19 (4.83)	.500 (12.70)	--	3.830 (97.28)

CASE#	N	P	WT. GRAMS
UU640	.150 (3.81)	8.350 (212.09)	450

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	-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