Engineering Development Model

Power Splitter/Combiner ZC16PD-ED7691

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.

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		725		1006	MHz
Isolation	**725 - 1006 MHz**		31		dB
Insertion Loss Above 12.0 dB	**725 - 1006 MHz**		0.43		dB
Phase Unbalance	**725 - 1006 MHz**		3.483		deg.
Amplitude Unbalance	**725 - 1006 MHz**		0.413		dB
VSWR	**SUM Port**		1.16		(:1)
	OUT Ports		1.09		(: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

16 Way-0° Power Splitter/Combiner ZC16PD-ED7691

Typical Performance Data

FREQ. (MHz)	TOTAL LOSS[1] (dB) S-1	AMP. UNBAL. (dB)	ISOLATION (dB) 1-2	ISOLATION (dB) 4-5	PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1) S	VSWR (:1) 1
725.0	12.47	0.43	15.19	28.40	2.80	725.0	1.33	1.07
753.1	12.60	0.42	16.23	28.87	2.88	753.1	1.39	1.08
781.3	12.43	0.41	17.39	29.72	3.05	781.3	1.41	1.09
809.4	12.58	0.40	18.58	30.75	3.14	809.4	1.39	1.10
837.5	12.69	0.40	19.89	32.04	3.18	837.5	1.34	1.10
865.6	12.33	0.42	21.34	33.37	3.30	865.6	1.27	1.10
893.8	12.52	0.40	23.29	35.02	3.47	893.8	1.19	1.10
921.9	12.48	0.38	25.61	36.97	3.45	921.9	1.12	1.10
950.0	12.41	0.43	28.16	39.20	3.59	950.0	1.06	1.10
952.2	12.39	0.43	28.35	39.40	3.67	952.2	1.05	1.09
954.4	12.39	0.41	28.56	39.57	3.59	954.4	1.05	1.09
956.7	12.38	0.41	28.77	39.75	3.72	956.7	1.05	1.09
958.9	12.38	0.42	28.96	39.95	3.72	958.9	1.05	1.09
961.1	12.37	0.42	29.16	40.22	3.66	961.1	1.05	1.09
963.3	12.36	0.41	29.34	40.43	3.62	963.3	1.05	1.09
965.6	12.37	0.42	29.52	40.57	3.70	965.6	1.05	1.09
967.8	12.36	0.43	29.67	40.74	3.73	967.8	1.06	1.09
970.0	12.37	0.41	29.84	41.08	3.72	970.0	1.06	1.09
987.7	12.40	0.41	30.56	42.34	3.82	987.7	1.10	1.09
1005.4	12.41	0.39	30.15	42.93	3.84	1005.4	1.15	1.09

[1] Total Loss = Insertion Loss + 12dB Splitter Loss

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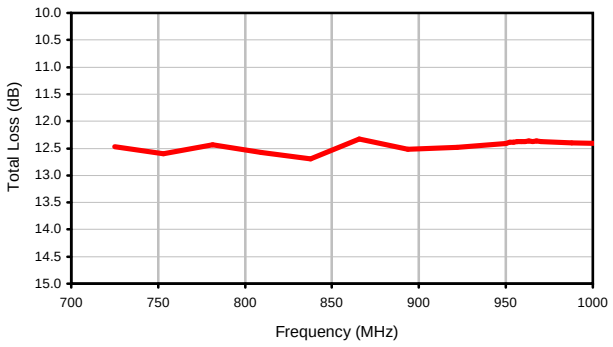
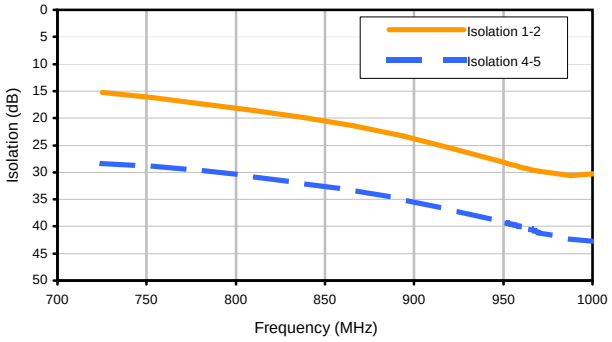
Typical Performance Curves

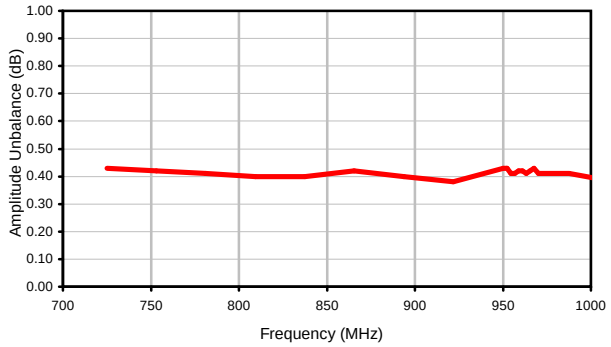
Total Loss



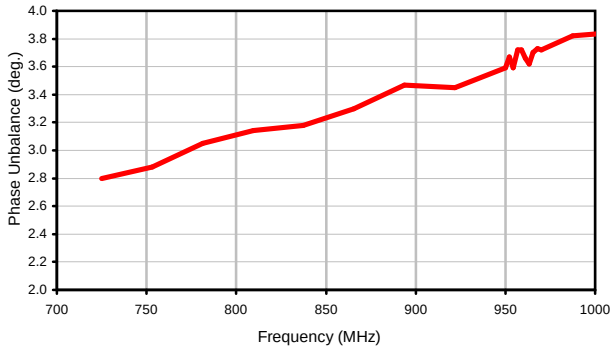
Isolation



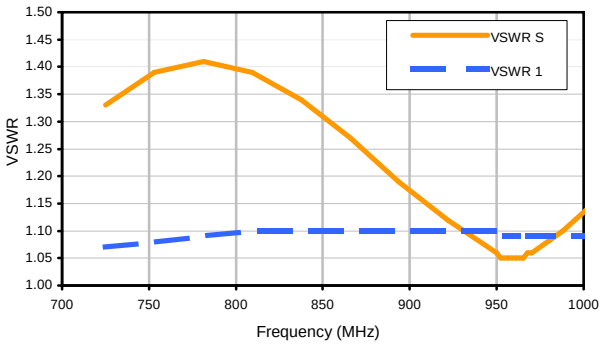
Amplitude Unbalance



Phase Unbalance

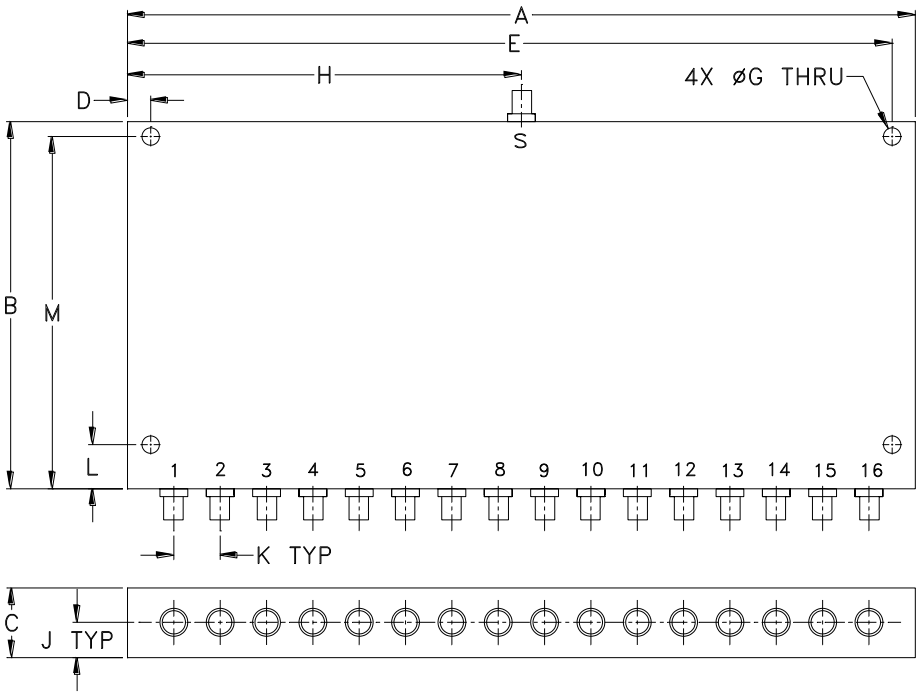


VSWR



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. ± .03; 3 Pl. ± .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.

Mini-Circuits

Environmental Specifications ENV29

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