Coaxial

Power Splitter/Combiner

ZC16PD-900

16 Way-0° 50Ω 800 to 900 MHz

CASE STYLE: UU179

Connectors	Model
SMA	ZC16PD-900-S

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

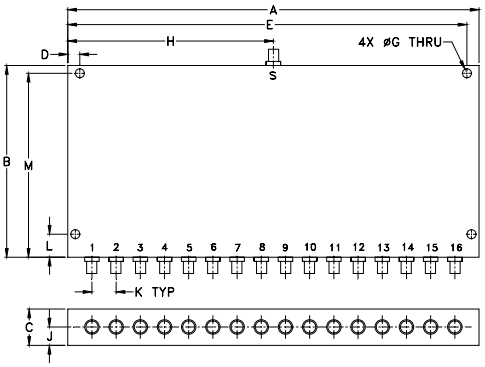
Features

- excellent VSWR, 1.1:1 typ.
- high isolation, 32 dB typ.
- low insertion loss, 0.5 dB typ.
- up to 10W power input as splitter
- rugged shielded case

Applications

- cellular
- UHF
- signal processing

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

Electrical Specifications

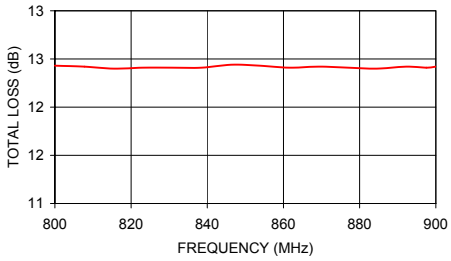
FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 12 dB		AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
						S		OUT	
f_L-f_U	Typ.	Min.	Typ.	Max.	Max.	Typ.	Max.	Typ.	Max.
800-900	32	20	0.5	1.0	0.5	1.06	1.2	1.06	1.2

Typical Performance Data

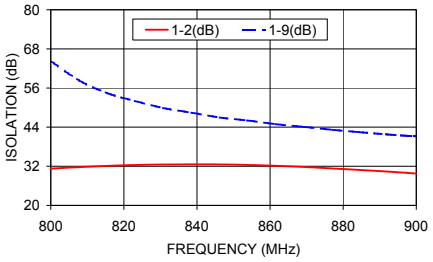
Freq. (MHz)	Total Loss[1] (dB)	Amplitude Unbalance (dB)	Isolation (dB)		VSWR S	VSWR 1
	S-1		1-2	1-9		
800.00	12.43	0.20	31.27	64.26	1.08	1.07
807.75	12.42	0.20	31.75	58.34	1.07	1.07
815.50	12.40	0.21	32.12	54.41	1.06	1.06
823.00	12.41	0.21	32.38	52.04	1.05	1.05
830.75	12.41	0.19	32.54	49.87	1.05	1.05
838.50	12.41	0.19	32.58	48.45	1.04	1.04
846.25	12.44	0.21	32.57	46.96	1.03	1.04
853.75	12.43	0.20	32.41	46.07	1.03	1.03
861.50	12.41	0.21	32.14	44.92	1.02	1.03
869.25	12.42	0.21	31.78	44.07	1.01	1.02
877.00	12.41	0.20	31.33	43.18	1.01	1.02
884.50	12.40	0.21	30.88	42.47	1.01	1.01
892.25	12.42	0.21	30.37	41.75	1.01	1.01
897.50	12.41	0.25	29.98	41.34	1.02	1.01
900.00	12.42	0.24	29.77	41.20	1.02	1.01

1. Total Loss = Insertion Loss +12dB splitter loss.

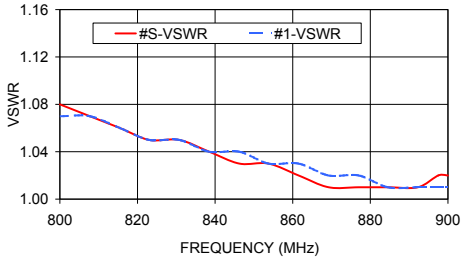
ZC16PD-900
TOTAL LOSS



ZC16PD-900
ISOLATION



ZC16PD-900
VSWR



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

16 Way-0° Power Splitter/Combiner ZC16PD-900

Typical Performance Data

FREQ. (MHz)	TOTAL LOSS[1] (dB) S-1	AMP. UNBAL. (dB)	ISOLATION (dB) 1-2	ISOLATION (dB) 1-9	FREQ. (MHz)	VSWR (:1) S	VSWR (:1) 1
800.0	12.43	0.20	31.27	64.26	800.0	1.08	1.07
807.8	12.42	0.20	31.75	58.34	807.8	1.07	1.07
815.5	12.40	0.21	32.12	54.41	815.5	1.06	1.06
823.0	12.41	0.21	32.38	52.04	823.0	1.05	1.05
830.8	12.41	0.19	32.54	49.87	830.8	1.05	1.05
838.5	12.41	0.19	32.58	48.45	838.5	1.04	1.04
846.3	12.44	0.21	32.57	46.96	846.3	1.03	1.04
853.8	12.43	0.20	32.41	46.07	853.8	1.03	1.03
861.5	12.41	0.21	32.14	44.92	861.5	1.02	1.03
869.3	12.42	0.21	31.78	44.07	869.3	1.01	1.02
877.0	12.41	0.20	31.33	43.18	877.0	1.01	1.02
884.5	12.40	0.21	30.88	42.47	884.5	1.01	1.01
892.3	12.42	0.21	30.37	41.75	892.3	1.01	1.01
897.5	12.41	0.25	29.98	41.34	897.5	1.02	1.01
900.0	12.42	0.24	29.77	41.20	900.0	1.02	1.01

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

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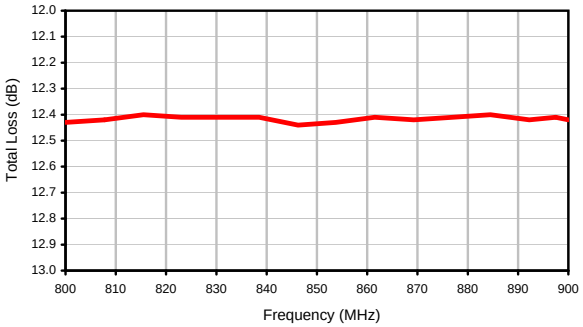
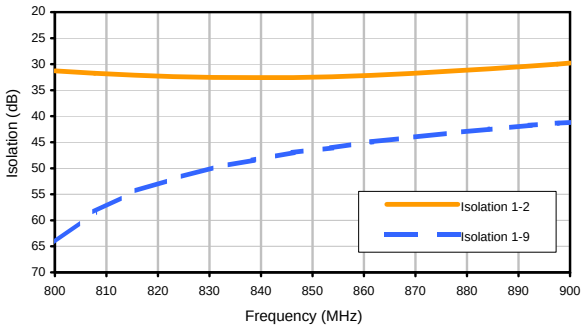
Typical Performance Curves

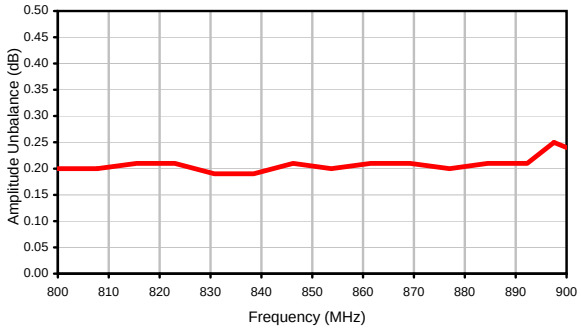
Total Loss



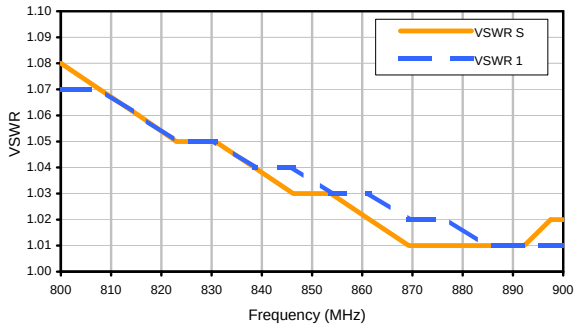
Isolation



Amplitude Unbalance

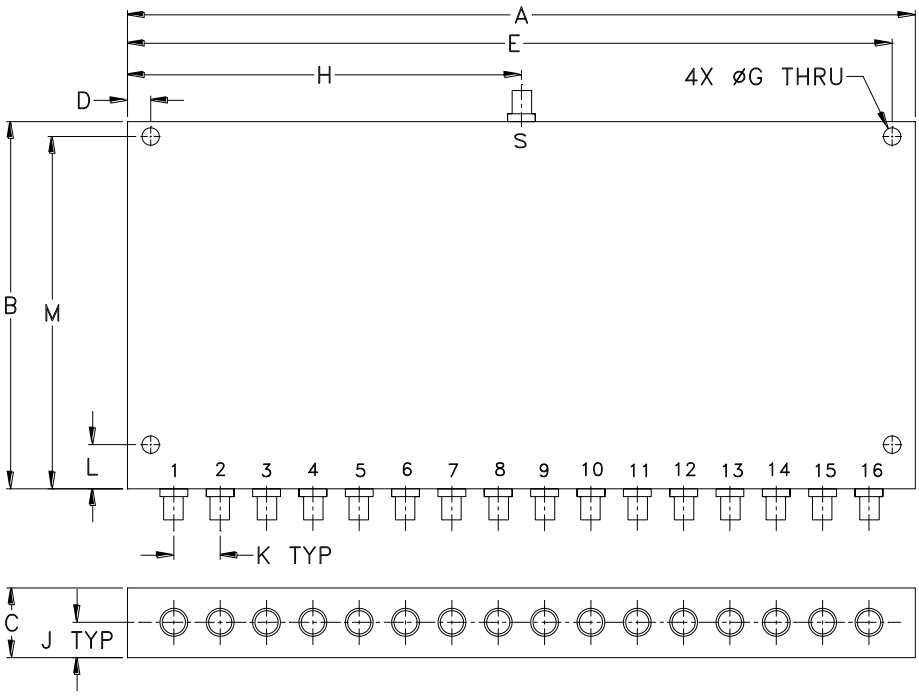


VSWR



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