

Coaxial

Power Splitter/Combiner

16 Way-0° 50Ω 500 to 1000 MHz

ZB16PD-13-S+

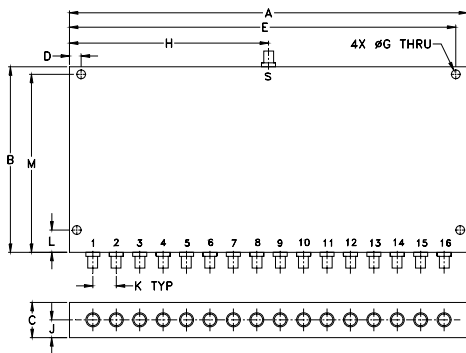
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	10W max.
Internal Dissipation	2.6W max.
Permanent damage may occur if any of these limits are exceeded.	

Coaxial Connections

SUMPORT	S
PORT 1,2,3,.....16	1,2,3,.....16

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
11.00	4.00	.88	.250	10.75	--	.187
279.40	101.60	22.35	6.35	273.05	--	4.75
H	J	K	L	M	wt	
5.50	.44	.66	.25	3.75	grams	
139.70	11.18	16.76	6.35	95.25	1130	

Features

- low insertion loss, 0.6 dB typ.
- excellent input and output VSWR, 1.1:1 typ.
- very high isolation, 30 typ.

Applications

- UHF TV/DTV
- GSM
- ISM
- WCDMA

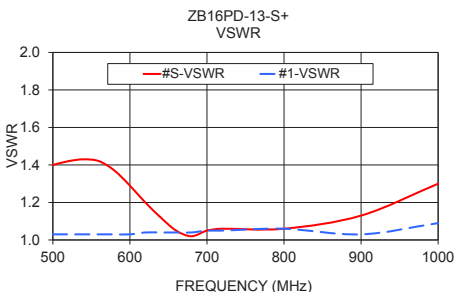
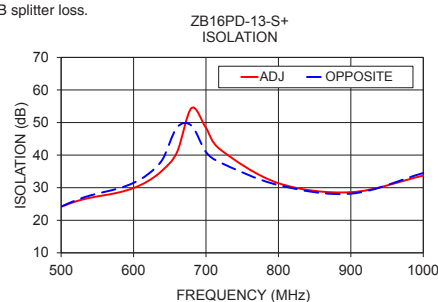
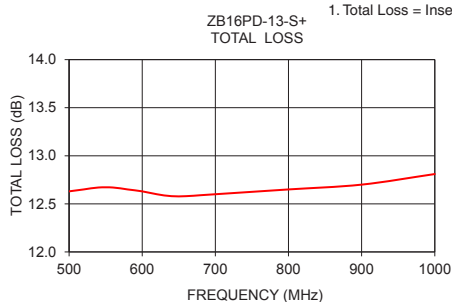
Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 12 dB		PHASE UNBALANCE (Degrees)	AMPLITUDE UNBALANCE (dB)	VSWR (:1)			
	Typ.	Min	Typ.	Max.			S		OUT	
f_L - f_U					Max.	Max.	Typ.	Max.	Typ.	Max.
500-1000	30	20	0.6	1.4	6	0.6	1.1	1.6	1.1	1.4

Typical Performance Data

Frequency (MHz)	Total Loss ¹ (dB)	Amplitude Unbalance (dB)	Isolation (dB)		Phase Unbalance (deg.)	VSWR S	VSWR 1
			Adjacent	Opposite			
	S-1						
500.00	12.63	0.08	24.15	24.19	1.31	1.40	1.03
520.00	12.65	0.08	25.78	26.11	1.35	1.42	1.03
540.00	12.67	0.08	26.91	27.61	1.39	1.43	1.03
560.00	12.67	0.08	27.69	28.71	1.43	1.42	1.03
580.00	12.65	0.08	28.56	29.83	1.46	1.37	1.03
600.00	12.63	0.08	29.90	31.49	1.48	1.29	1.03
620.00	12.60	0.08	32.04	34.16	1.53	1.20	1.04
640.00	12.58	0.07	35.38	38.69	1.58	1.12	1.04
660.00	12.58	0.07	40.90	48.49	1.61	1.05	1.04
680.00	12.59	0.07	54.44	49.04	1.65	1.02	1.04
700.00	12.60	0.06	48.35	40.92	1.69	1.05	1.05
720.00	12.61	0.06	41.68	37.70	1.76	1.06	1.05
800.00	12.65	0.06	31.38	30.79	1.96	1.06	1.06
900.00	12.70	0.09	28.61	28.16	2.21	1.13	1.03
1000.00	12.81	0.10	33.71	34.51	2.47	1.30	1.09

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
 M171494
 ED-7001/1
 ZB16PD-13-S+
 HY/TD/CP/AM
 181226



CASE STYLE: UU573

Connectors	Model
SMA	ZB16PD-13-S+

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

16 Way-0° Power Splitter/Combiner

ZB16PD-13-S+

Typical Performance Data

FREQUENCY (MHz)	TOTAL LOSS ¹ (dB) S-1	AMPLITUDE UNBALANCE (dB)	ISOLATION (dB)		PHASE UNBALANCE (deg.)	FREQUENCY (MHz)	VSWR (:1)	
			1-2	3-4			S	1
500	12.63	0.08	24.15	24.19	1.31	500.00	1.40	1.03
520	12.65	0.08	25.78	26.11	1.35	520.00	1.42	1.03
540	12.67	0.08	26.91	27.61	1.39	540.00	1.43	1.03
560	12.67	0.08	27.69	28.71	1.43	560.00	1.42	1.03
580	12.65	0.08	28.56	29.83	1.46	580.00	1.37	1.03
600	12.63	0.08	29.90	31.49	1.48	600.00	1.29	1.03
620	12.60	0.08	32.04	34.16	1.53	620.00	1.20	1.04
640	12.58	0.07	35.38	38.69	1.58	640.00	1.12	1.04
660	12.58	0.07	40.90	48.49	1.61	660.00	1.05	1.04
680	12.59	0.07	54.44	49.04	1.65	680.00	1.02	1.04
700	12.60	0.06	48.35	40.92	1.69	700.00	1.05	1.05
720	12.61	0.06	41.68	37.70	1.76	720.00	1.06	1.05
740	12.62	0.06	38.37	35.78	1.80	740.00	1.05	1.05
760	12.63	0.06	35.75	34.14	1.86	760.00	1.04	1.06
780	12.64	0.06	33.41	32.45	1.91	780.00	1.03	1.06
800	12.65	0.06	31.38	30.79	1.96	800.00	1.06	1.06
820	12.66	0.06	29.77	29.38	2.02	820.00	1.08	1.06
840	12.67	0.07	28.65	28.33	2.09	840.00	1.10	1.05
860	12.68	0.07	28.06	27.73	2.12	860.00	1.12	1.04
880	12.69	0.08	28.01	27.65	2.17	880.00	1.12	1.04
900	12.70	0.09	28.61	28.16	2.21	900.00	1.13	1.03
920	12.71	0.09	30.06	29.43	2.28	920.00	1.13	1.03
940	12.72	0.09	32.82	31.83	2.33	940.00	1.15	1.05
960	12.74	0.09	37.82	35.98	2.40	960.00	1.18	1.06
980	12.77	0.10	40.15	39.48	2.45	980.00	1.23	1.08
1000	12.81	0.10	33.71	34.51	2.47	1000.00	1.30	1.09

¹Total Loss = Insertion Loss + 12dB Splitter Loss



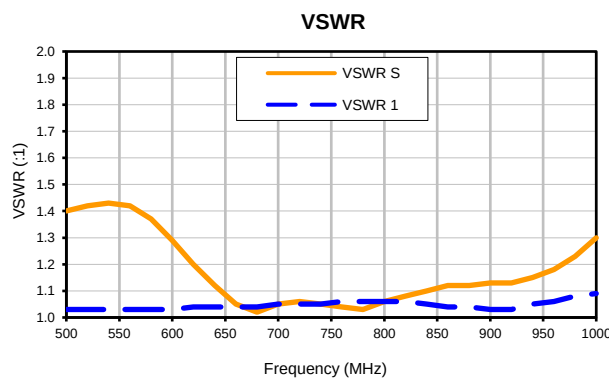
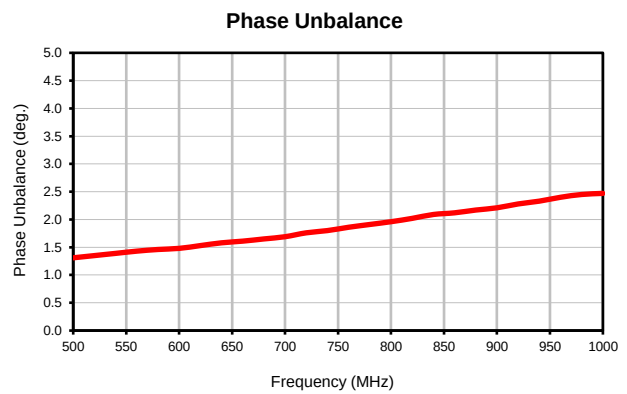
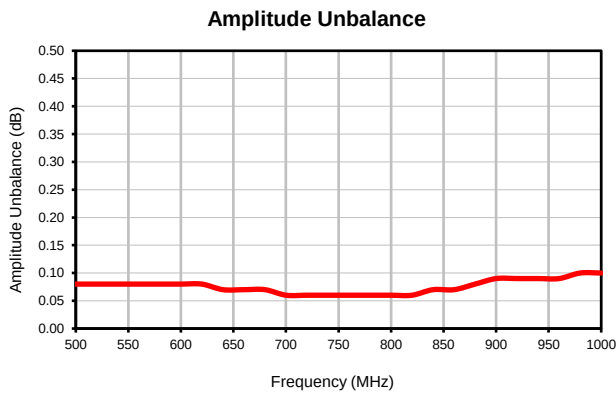
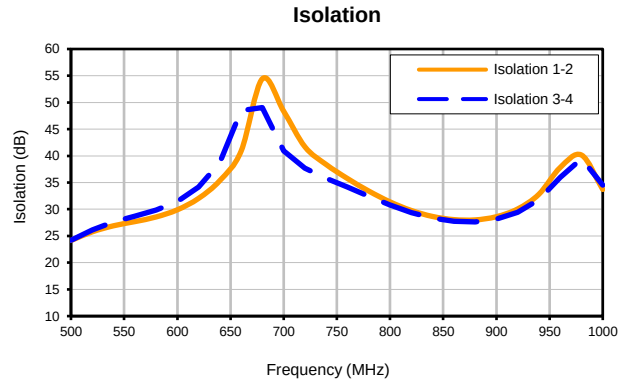
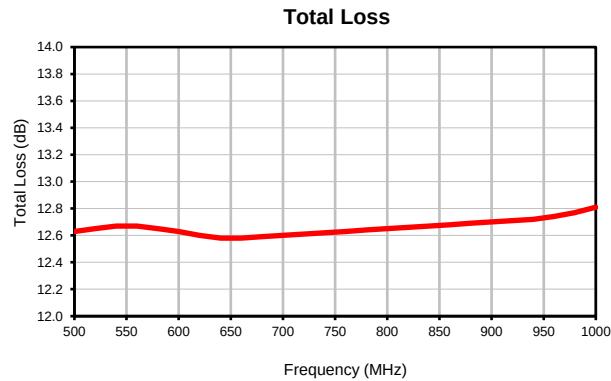
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IF/RF MICROWAVE COMPONENTS



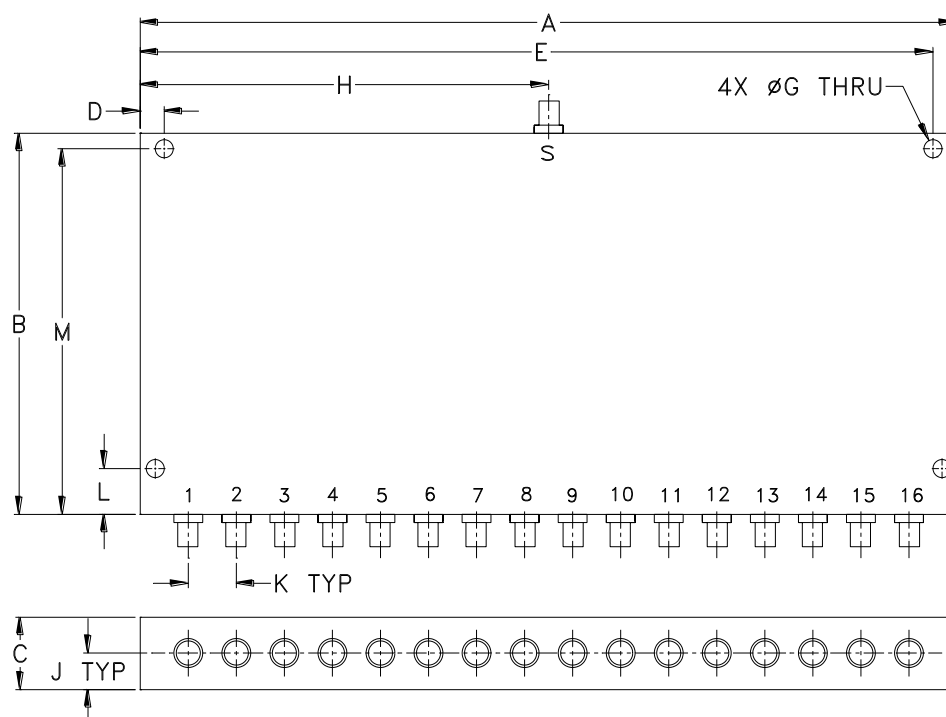
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 1/16/2019
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Typical Performance Curves



Outline Dimensions

UU573



CASE#	A	B	C	D	E	F	G	H	J	K	L	M	WT. GRAMS
UU573	13.25 (336.55)	6.00 (152.40)	.88 (22.35)	.250 (6.35)	12.75 (323.85)	--	.187 (4.75)	6.63 (168.40)	.44 (11.18)	.75 (19.05)	.48 (12.19)	5.05 (128.27)	2080

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
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