

Engineering Development Model

Power Splitter/Combiner

ZB16PD-ED7001/1

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.



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

CASE STYLE : UU573

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter		Min.	Typ.	Max. Units
Frequency		450		1200 MHz
Isolation	450 - 1200 MHz		28	
Insertion Loss Above 12.0 dB	450 - 1200 MHz		0.80	
Phase Unbalance	450 - 1200 MHz		1.915	
Amplitude Unbalance	450 - 1200 MHz		0.090	
VSWR	SUM Port		1.30	(:1)
	OUT Ports		1.10	(:1)

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

Functional Diagram



16 Way-0° Power Splitter/Combiner ZB16PD-ED7001/1

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
300.0	12.46	0.12	11.95	11.87	0.75	300.0	1.23	1.07
350.0	12.59	0.12	14.45	14.33	0.90	350.0	1.42	1.06
400.0	12.76	0.09	16.59	16.45	1.13	400.0	1.69	1.04
450.0	12.67	0.07	19.59	19.44	1.22	450.0	1.52	1.01
480.0	12.62	0.07	22.24	22.13	1.28	480.0	1.42	1.02
500.0	12.63	0.08	24.15	24.19	1.31	500.0	1.40	1.03
520.0	12.65	0.08	25.78	26.11	1.35	520.0	1.42	1.03
540.0	12.67	0.08	26.91	27.61	1.39	540.0	1.43	1.03
560.0	12.67	0.08	27.69	28.71	1.43	560.0	1.42	1.03
580.0	12.65	0.08	28.56	29.83	1.46	580.0	1.37	1.03
600.0	12.63	0.08	29.90	31.49	1.48	600.0	1.29	1.03
620.0	12.60	0.08	32.04	34.16	1.53	620.0	1.20	1.04
640.0	12.58	0.07	35.38	38.69	1.58	640.0	1.12	1.04
660.0	12.58	0.07	40.90	48.49	1.61	660.0	1.05	1.04
680.0	12.59	0.07	54.44	49.04	1.65	680.0	1.02	1.04
700.0	12.60	0.06	48.35	40.92	1.69	700.0	1.05	1.05
720.0	12.61	0.06	41.68	37.70	1.76	720.0	1.06	1.05
740.0	12.62	0.06	38.37	35.78	1.80	740.0	1.05	1.05
760.0	12.63	0.06	35.75	34.14	1.86	760.0	1.04	1.06
780.0	12.64	0.06	33.41	32.45	1.91	780.0	1.03	1.06
800.0	12.65	0.06	31.38	30.79	1.96	800.0	1.06	1.06
820.0	12.66	0.06	29.77	29.38	2.02	820.0	1.08	1.06
840.0	12.67	0.07	28.65	28.33	2.09	840.0	1.10	1.05
860.0	12.68	0.07	28.06	27.73	2.12	860.0	1.12	1.04
880.0	12.69	0.08	28.01	27.65	2.17	880.0	1.12	1.04
900.0	12.70	0.09	28.61	28.16	2.21	900.0	1.13	1.03
920.0	12.71	0.09	30.06	29.43	2.28	920.0	1.13	1.03
940.0	12.72	0.09	32.82	31.83	2.33	940.0	1.15	1.05
960.0	12.74	0.09	37.82	35.98	2.40	960.0	1.18	1.06
980.0	12.77	0.10	40.15	39.48	2.45	980.0	1.23	1.08
1000.0	12.81	0.10	33.71	34.51	2.47	1000.0	1.30	1.09
1020.0	12.86	0.11	29.53	30.20	2.51	1020.0	1.40	1.10
1050.0	12.96	0.13	26.33	26.83	2.49	1050.0	1.56	1.10
1100.0	13.10	0.16	26.07	26.62	2.48	1100.0	1.74	1.07
1150.0	13.10	0.21	30.23	33.49	2.46	1150.0	1.70	1.03
1200.0	13.07	0.26	22.69	23.66	2.45	1200.0	1.60	1.03
1250.0	13.00	0.32	17.36	17.70	2.42	1250.0	1.43	1.07
1300.0	13.02	0.42	14.52	14.62	2.46	1300.0	1.38	1.11
1350.0	14.23	0.55	12.49	12.46	2.92	1350.0	2.84	1.20
1400.0	16.15	0.65	11.69	11.58	3.94	1400.0	5.36	1.32

¹Total Loss = Insertion Loss + 12dB Splitter Loss

REV. X2

ZB16PD-ED7001/1

100919

Page 1 of 1



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED RoHS compliant

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



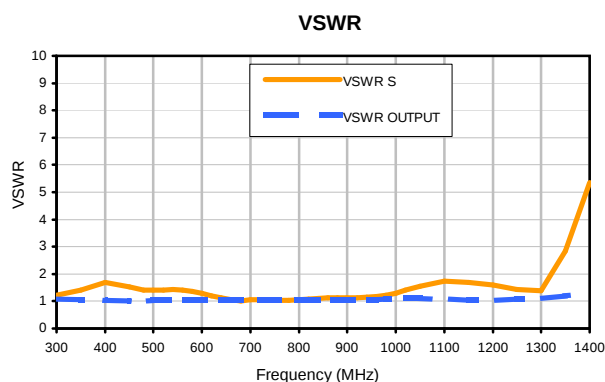
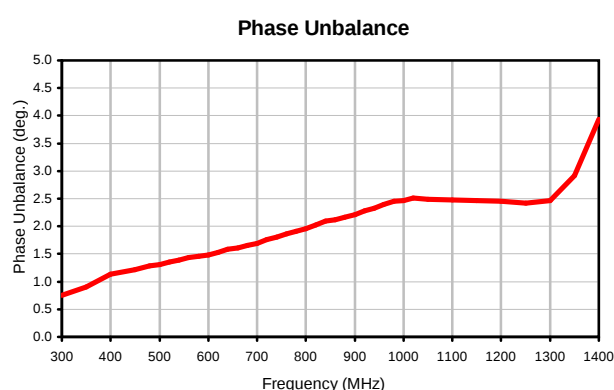
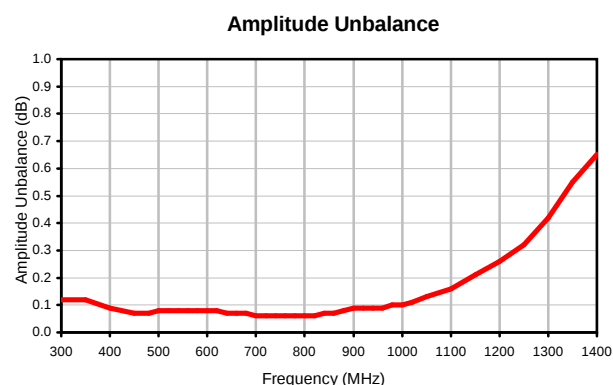
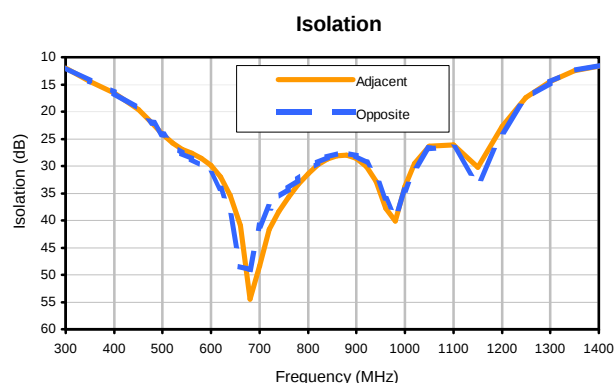
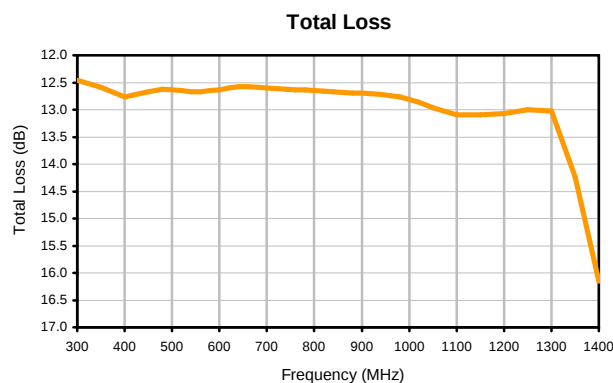
The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



16 Way-0° Power Splitter/Combiner

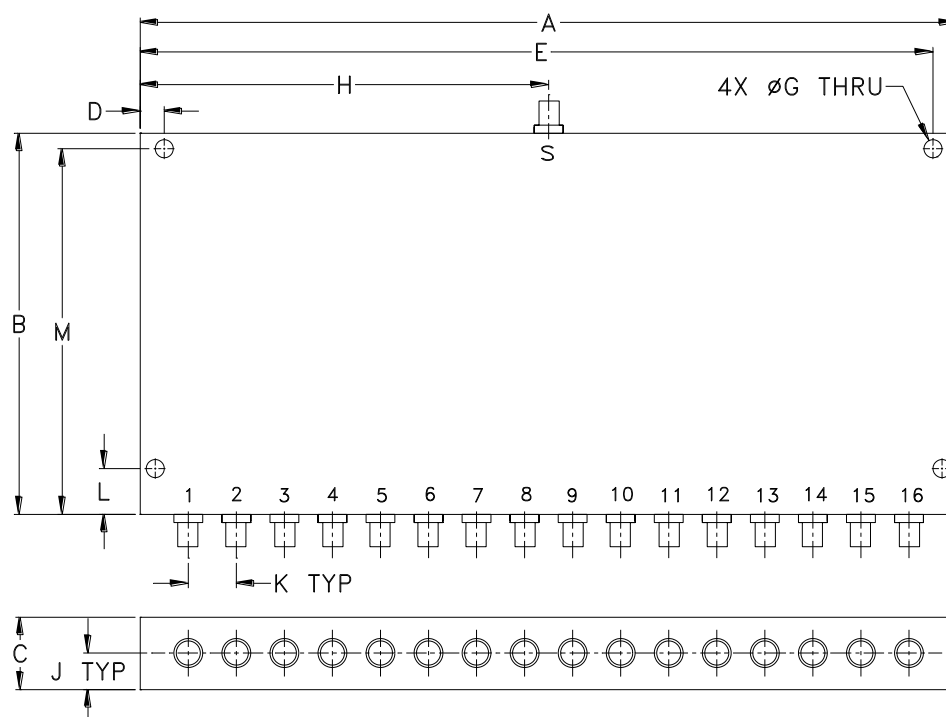
ZB16PD-ED7001/1

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.



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

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