

Power Splitter/Combiner

ZB8PD-ED14910

8 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 : Z41

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter	Min.	Typ.	Max.	Units
Frequency	900		1500	MHz
Isolation		25		dB
Insertion Loss Above 9.0 dB		0.4		dB
Phase Unbalance		0.1		deg.
Amplitude Unbalance		2.0		dB
VSWR	SUM Port	1.15		(:1)
	OUT Ports	1.05		(:1)

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

COAXIAL 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

electrical schematic



8 Way-0° Power Splitter/Combiner

ZB8PD-ED14910

Typical Performance Data

FREQ. (MHz)	TOTAL LOSS ¹ (dB)						AMP. UNBAL. (dB)	ISOLATION (dB)				PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1)		
	S-1	S-2	S-3	S-4	S-6	S-8		1-2	2-3	3-4	6-7			S	1	8
800.0	9.54	9.56	9.51	9.57	9.56	9.54	0.07	13.72	19.07	13.67	19.12	1.31	800.0	1.67	1.02	1.02
825.0	9.49	9.51	9.46	9.52	9.51	9.49	0.07	14.25	19.52	14.20	19.55	1.30	825.0	1.59	1.01	1.01
850.0	9.44	9.46	9.42	9.47	9.47	9.45	0.07	14.82	19.97	14.77	20.00	1.33	850.0	1.51	1.01	1.01
875.0	9.40	9.42	9.38	9.43	9.43	9.41	0.07	15.41	20.44	15.35	20.46	1.32	875.0	1.44	1.01	1.01
900.0	9.36	9.39	9.36	9.40	9.40	9.38	0.06	16.03	20.95	15.97	20.96	1.34	900.0	1.37	1.02	1.01
925.0	9.34	9.37	9.34	9.37	9.38	9.35	0.05	16.67	21.49	16.60	21.49	1.39	925.0	1.32	1.02	1.02
950.0	9.32	9.36	9.33	9.35	9.37	9.33	0.05	17.33	22.09	17.27	22.07	1.46	950.0	1.27	1.03	1.03
975.0	9.30	9.35	9.32	9.34	9.36	9.32	0.06	18.03	22.75	17.96	22.72	1.50	975.0	1.24	1.04	1.03
1000.0	9.30	9.34	9.31	9.34	9.35	9.31	0.06	18.76	23.48	18.70	23.43	1.53	1000.0	1.21	1.05	1.04
1025.0	9.29	9.34	9.31	9.33	9.35	9.31	0.06	19.55	24.30	19.51	24.23	1.58	1025.0	1.19	1.05	1.05
1050.0	9.28	9.34	9.31	9.33	9.35	9.30	0.07	20.43	25.22	20.39	25.12	1.65	1050.0	1.16	1.06	1.06
1075.0	9.28	9.34	9.32	9.33	9.35	9.30	0.07	21.42	26.26	21.40	26.13	1.69	1075.0	1.14	1.07	1.07
1100.0	9.28	9.34	9.32	9.33	9.35	9.30	0.08	22.55	27.43	22.56	27.27	1.72	1100.0	1.13	1.08	1.08
1125.0	9.28	9.34	9.32	9.33	9.36	9.29	0.08	23.88	28.74	23.94	28.54	1.78	1125.0	1.11	1.09	1.08
1150.0	9.27	9.34	9.32	9.33	9.36	9.29	0.09	25.45	30.23	25.59	29.98	1.85	1150.0	1.09	1.10	1.09
1175.0	9.27	9.35	9.33	9.33	9.37	9.30	0.10	27.26	32.00	27.52	31.64	1.91	1175.0	1.07	1.10	1.10
1200.0	9.27	9.35	9.34	9.33	9.38	9.30	0.11	29.20	34.08	29.63	33.60	1.95	1200.0	1.08	1.10	1.10
1225.0	9.27	9.35	9.34	9.34	9.39	9.30	0.11	30.74	36.63	31.28	36.00	1.99	1225.0	1.09	1.11	1.11
1250.0	9.28	9.37	9.36	9.35	9.40	9.31	0.12	30.83	39.98	31.24	39.07	2.04	1250.0	1.12	1.11	1.11
1275.0	9.29	9.38	9.37	9.36	9.42	9.32	0.12	29.37	45.05	29.54	43.58	2.09	1275.0	1.15	1.10	1.10
1300.0	9.30	9.39	9.39	9.37	9.43	9.33	0.13	27.41	54.64	27.43	52.46	2.16	1300.0	1.18	1.10	1.10
1325.0	9.31	9.41	9.41	9.39	9.45	9.34	0.14	25.56	49.40	25.50	54.63	2.23	1325.0	1.21	1.10	1.10
1350.0	9.32	9.42	9.42	9.40	9.47	9.35	0.15	23.97	42.69	23.86	44.51	2.31	1350.0	1.23	1.09	1.09
1375.0	9.33	9.43	9.43	9.40	9.48	9.35	0.16	22.58	38.69	22.47	39.75	2.39	1375.0	1.24	1.09	1.09
1400.0	9.33	9.43	9.44	9.40	9.49	9.36	0.16	21.36	35.83	21.25	36.55	2.48	1400.0	1.24	1.08	1.08
1425.0	9.32	9.43	9.44	9.40	9.49	9.36	0.17	20.29	33.59	20.19	34.09	2.58	1425.0	1.23	1.08	1.08
1450.0	9.31	9.43	9.44	9.39	9.49	9.35	0.18	19.32	31.64	19.22	32.01	2.66	1450.0	1.21	1.07	1.08
1475.0	9.30	9.42	9.43	9.38	9.49	9.35	0.19	18.41	29.91	18.33	30.19	2.73	1475.0	1.18	1.07	1.08
1500.0	9.30	9.42	9.43	9.37	9.49	9.35	0.19	17.55	28.35	17.48	28.58	2.78	1500.0	1.16	1.07	1.07
1525.0	9.30	9.43	9.44	9.37	9.50	9.35	0.20	16.72	26.95	16.67	27.12	2.87	1525.0	1.17	1.06	1.06
1550.0	9.32	9.45	9.46	9.38	9.53	9.38	0.21	15.91	25.64	15.88	25.77	2.94	1550.0	1.23	1.06	1.05
1575.0	9.36	9.50	9.51	9.42	9.58	9.43	0.22	15.12	24.42	15.10	24.54	2.98	1575.0	1.33	1.05	1.05
1600.0	9.44	9.58	9.59	9.50	9.66	9.51	0.22	14.35	23.29	14.35	23.39	3.02	1600.0	1.47	1.03	1.03

¹Total Loss = Insertion Loss + 9dB Splitter Loss



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

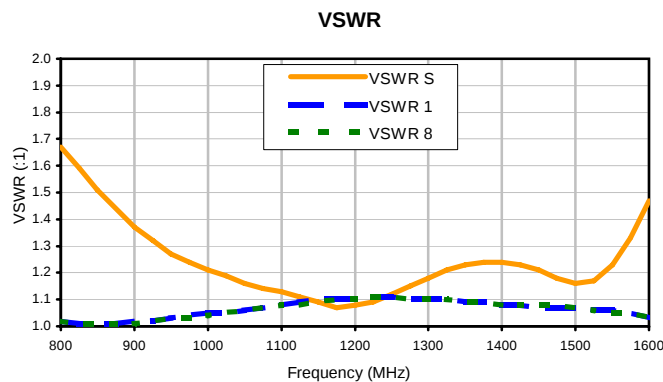
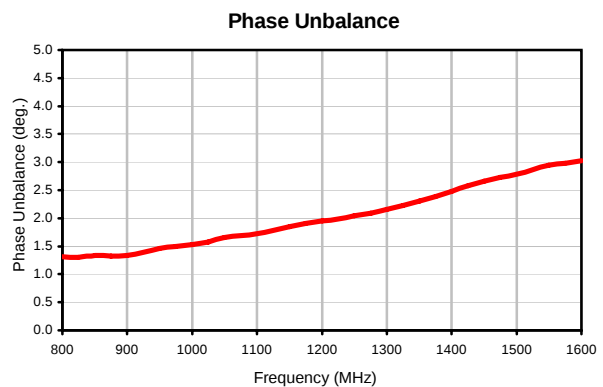
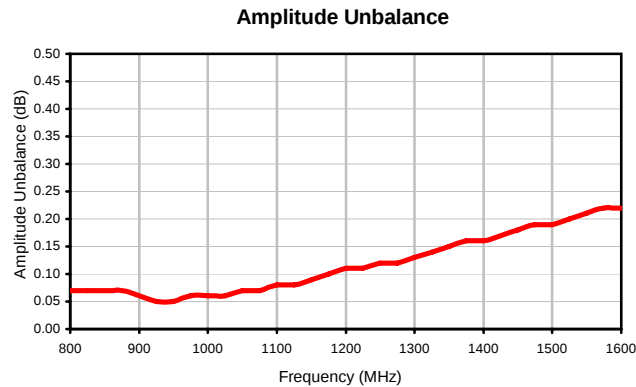
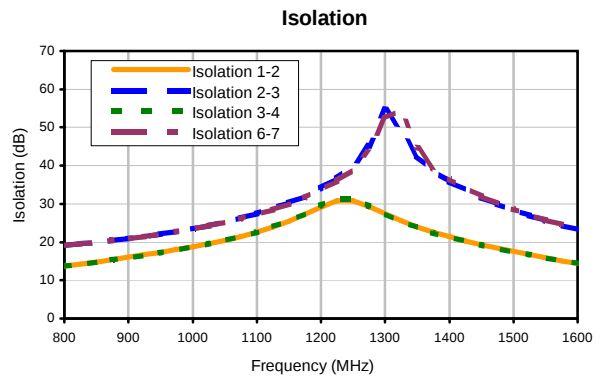
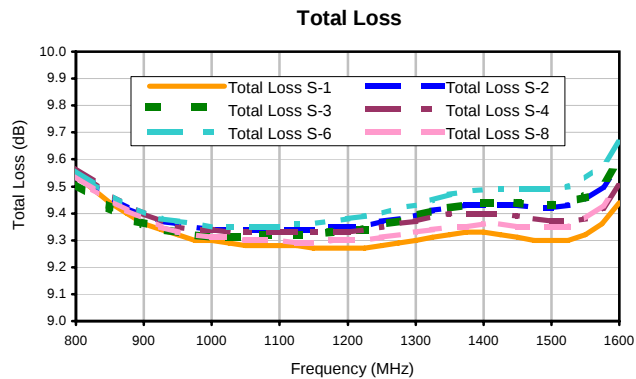
IF/RF MICROWAVE COMPONENTS

REV. X1
 ZB8PD-ED14910
 8/13/2012
 Page 1 of 1

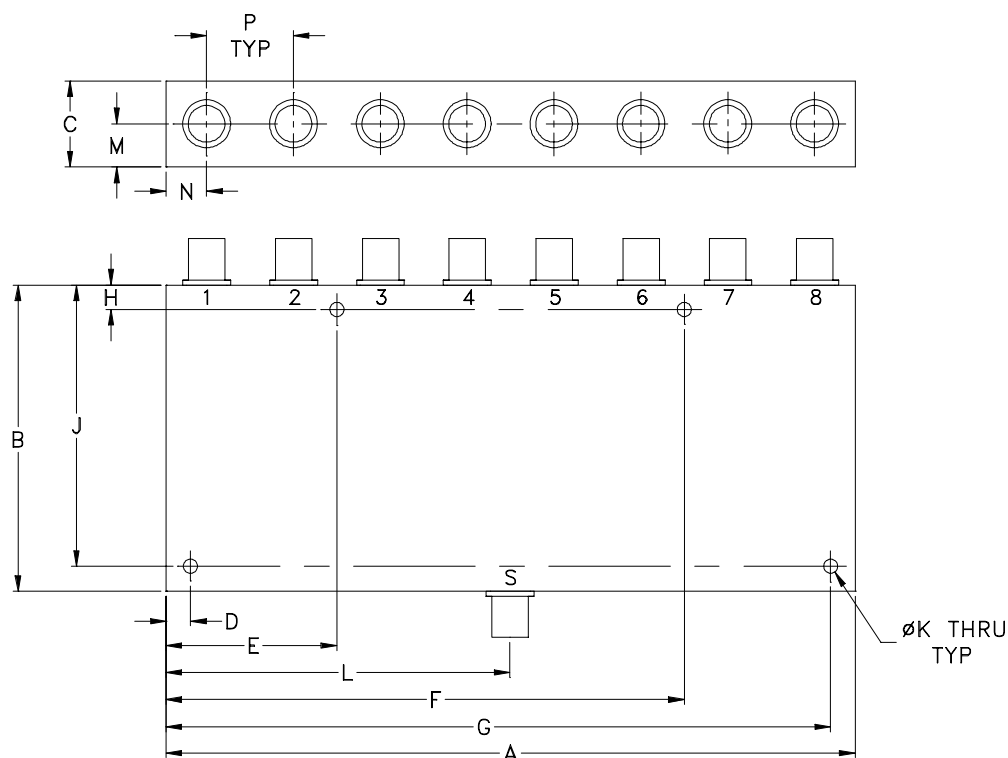
8 Way-0° Power Splitter/Combiner

ZB8PD-ED14910

Typical Performance Curves



Outline Dimensions



CASE#	A	B	C	D	E	F	G	H	J	K	L	M	N
Z41	7.06 (179.32)	3.13 (79.50)	.88 (22.35)	.250 (6.35)	1.750 (44.45)	5.310 (134.87)	6.810 (172.97)	.250 (6.35)	2.875 (73.03)	.144 (3.66)	3.53 (89.66)	.44 (11.18)	.415 (10.54)

CASE#	P	WT.GRAMS
Z41	.89 (22.61)	800

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.



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