

Engineering Development Model

Power Splitter/Combiner

ZC9PD-ED13292/1

9 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 : AB204

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C

Parameter	Min.	Typ.	Max.	Units
Frequency	1300		1700	MHz
Isolation 1300-1700 MHz		27		dB
Insertion Loss Above 9.6 dB 1300-1700 MHz		0.50		dB
Phase Unbalance 1300-1700 MHz		7.00		deg.
Amplitude Unbalance 1300-1700 MHz		0.25		dB
VSWR SUM Port		1.10		(:1)
OUT Ports		1.08		(:1)

MAXIMUM RATINGS

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

Functional Diagram

COAXIAL CONNECTIONS	
SUM PORT	S (COM)
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



9 Way-0° Power Splitter/Combiner

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Typical Data Performance

FREQ.	TOTAL LOSS ¹			AMP. UNBAL.	ISOLATION		PHASE UNBAL.	FREQ.	VSWR		
(MHz)	(dB)			(dB)	(dB)		(Deg.)	(MHz)	(:1)		
	S-1	S-2	S-3		1-2	1-3			S	1	3
1200.0	10.41	10.26	10.43	0.25	26.77	19.91	5.43	1200.0	1.74	1.07	1.07
1240.0	10.29	10.16	10.32	0.22	29.82	20.92	5.71	1240.0	1.58	1.08	1.07
1260.0	10.24	10.11	10.27	0.21	31.86	21.53	5.83	1260.0	1.51	1.08	1.07
1280.0	10.20	10.07	10.22	0.20	34.32	22.21	5.95	1280.0	1.44	1.09	1.07
1300.0	10.15	10.04	10.18	0.20	36.71	22.98	6.08	1300.0	1.37	1.09	1.08
1320.0	10.12	10.01	10.15	0.19	37.21	23.87	6.19	1320.0	1.31	1.09	1.08
1340.0	10.10	10.00	10.12	0.19	35.07	24.88	6.30	1340.0	1.25	1.09	1.08
1360.0	10.07	9.99	10.10	0.19	32.38	26.03	6.39	1360.0	1.19	1.09	1.08
1380.0	10.06	9.98	10.09	0.19	30.02	27.38	6.49	1380.0	1.14	1.09	1.08
1385.0	10.06	9.98	10.09	0.19	29.51	27.74	6.52	1385.0	1.13	1.09	1.08
1390.0	10.05	9.98	10.08	0.19	29.00	28.13	6.54	1390.0	1.12	1.09	1.08
1395.0	10.05	9.98	10.08	0.19	28.53	28.54	6.55	1395.0	1.11	1.09	1.08
1400.0	10.05	9.98	10.08	0.19	28.07	28.97	6.58	1400.0	1.10	1.09	1.08
1405.0	10.05	9.98	10.08	0.19	27.64	29.41	6.60	1405.0	1.09	1.09	1.08
1410.0	10.05	9.98	10.08	0.19	27.23	29.89	6.62	1410.0	1.08	1.09	1.08
1415.0	10.05	9.98	10.08	0.19	26.83	30.39	6.63	1415.0	1.07	1.09	1.08
1420.0	10.05	9.98	10.08	0.20	26.45	30.91	6.66	1420.0	1.06	1.09	1.08
1425.0	10.05	9.99	10.08	0.20	26.08	31.45	6.67	1425.0	1.05	1.09	1.08
1435.0	10.05	9.99	10.08	0.20	25.39	32.66	6.72	1435.0	1.03	1.09	1.08
1445.0	10.05	10.00	10.08	0.20	24.76	34.01	6.75	1445.0	1.02	1.09	1.07
1455.0	10.05	10.00	10.08	0.20	24.17	35.54	6.80	1455.0	1.01	1.09	1.07
1465.0	10.05	10.01	10.08	0.21	23.61	37.21	6.83	1465.0	1.01	1.09	1.07
1475.0	10.06	10.02	10.09	0.21	23.10	38.96	6.87	1475.0	1.02	1.09	1.07
1500.0	10.07	10.04	10.10	0.22	21.92	40.78	6.96	1500.0	1.05	1.08	1.07
1520.0	10.08	10.06	10.11	0.22	21.10	37.82	7.02	1520.0	1.07	1.08	1.07
1540.0	10.09	10.07	10.11	0.23	20.37	34.61	7.11	1540.0	1.08	1.08	1.06
1560.0	10.10	10.09	10.12	0.23	19.70	32.07	7.18	1560.0	1.08	1.08	1.06
1580.0	10.11	10.11	10.13	0.24	19.09	30.03	7.27	1580.0	1.08	1.07	1.06
1600.0	10.12	10.13	10.14	0.25	18.52	28.37	7.35	1600.0	1.08	1.07	1.06
1620.0	10.13	10.15	10.15	0.26	18.00	27.00	7.46	1620.0	1.08	1.07	1.06
1640.0	10.15	10.17	10.16	0.28	17.52	25.82	7.57	1640.0	1.08	1.07	1.06
1660.0	10.16	10.19	10.17	0.30	17.07	24.77	7.69	1660.0	1.09	1.07	1.06
1680.0	10.18	10.21	10.19	0.32	16.64	23.85	7.81	1680.0	1.11	1.07	1.06
1700.0	10.21	10.25	10.20	0.34	16.24	23.01	7.94	1700.0	1.15	1.07	1.06
1750.0	10.30	10.36	10.28	0.39	15.33	21.23	8.34	1750.0	1.29	1.08	1.07
1800.0	10.46	10.53	10.43	0.45	14.53	19.75	8.79	1800.0	1.49	1.10	1.09

¹Total Loss = Insertion Loss + 9.6dB Splitter Loss



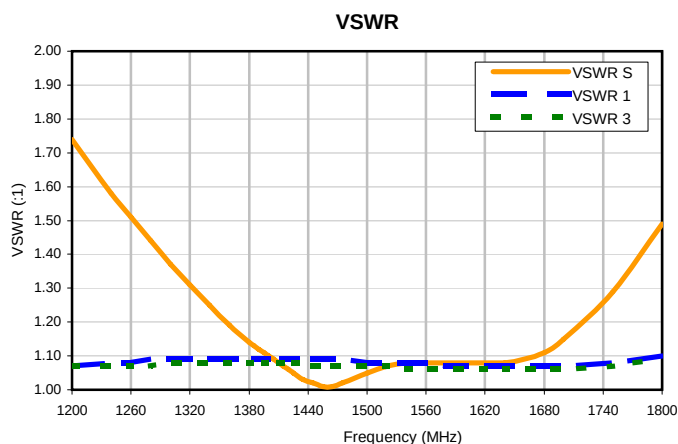
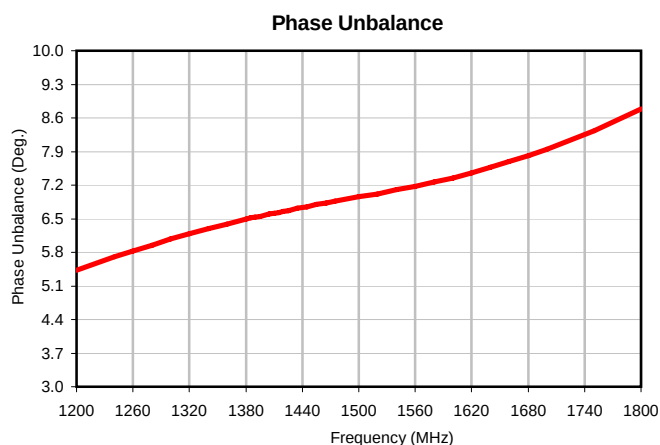
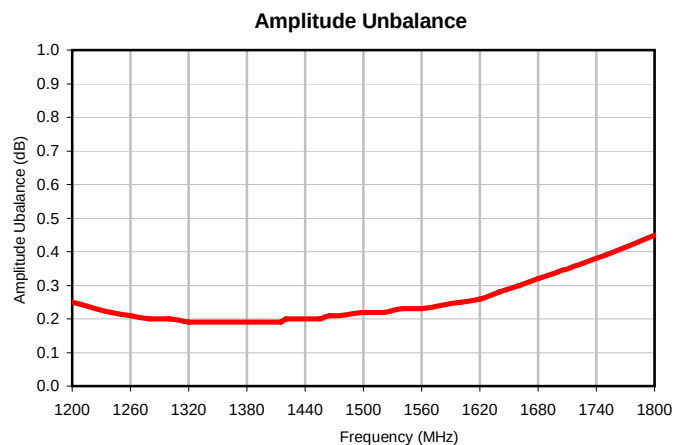
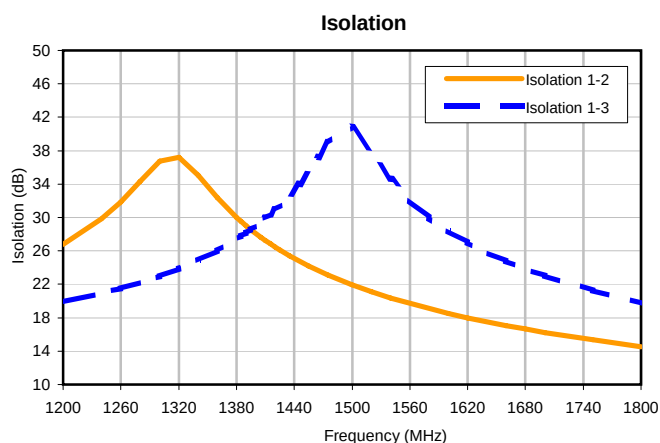
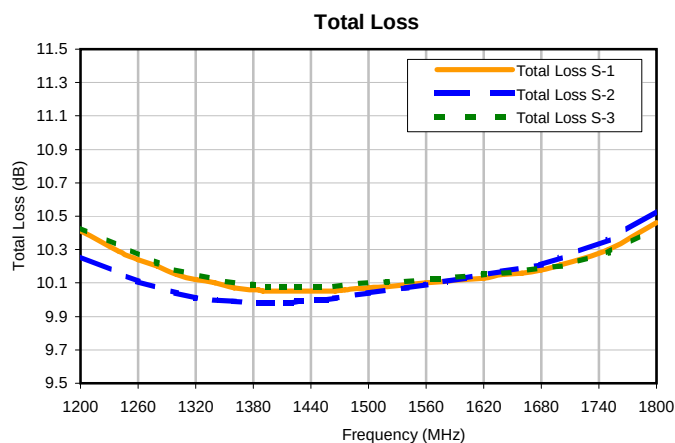
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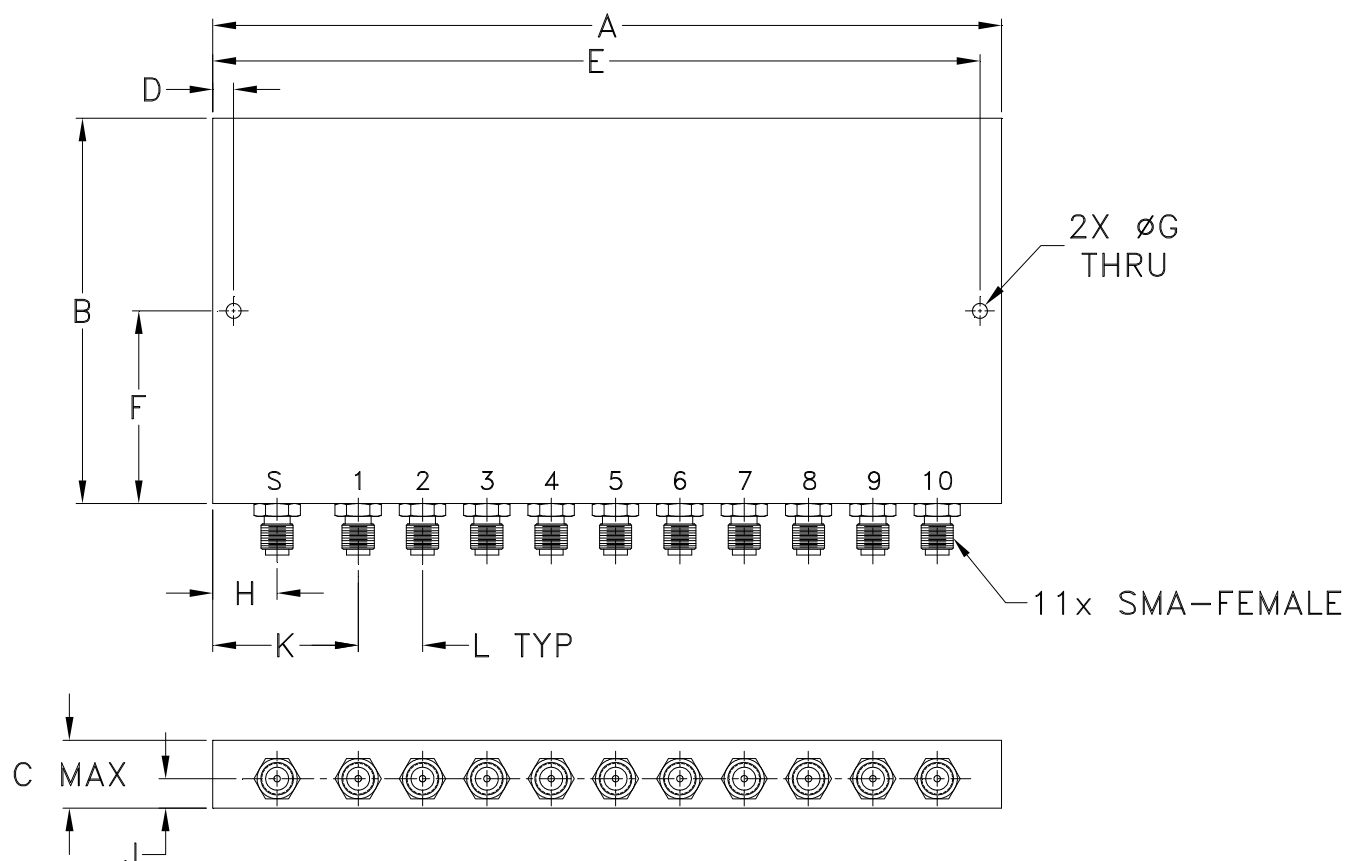
IF/RF MICROWAVE COMPONENTS

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Typical Performance Curves



Outline Dimensions



CASE #	A	B	C	D	E	F	G	H	J	K	L	WT. GRAM
AB204	6.13 (155.70)	3.00 (76.20)	.53 (13.46)	.162 (4.11)	5.962 (151.43)	1.500 (38.10)	.116 (2.95)	.50 (12.70)	.25 (6.35)	1.13 (28.70)	.50 (12.70)	207

Dimensions are in inches (mm). Tolerances: 2Pl. $\pm .03$; 3Pl. $\pm .015$

Notes:

- Case material: Aluminum alloy.
- Case finish:

For RoHS Case Styles:

Clear chemical conversion coating, non-chrome or trivalent chrome based.



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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