

Non-Catalog Model

Power Splitter/Combiner

2 Way-0°

ZAPD-4-13



CASE STYLE: F14

Important Note

This is a non-catalog model and can be manufactured on specific request. Pricing and delivery information can be supplied upon request.

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

ELECTRICAL SPECIFICATIONS 50Ω@

Parameter	Min.	Typ.	Max.	Units
Frequency	2.0		4.2	GHz
Isolation	19			dB
Insertion Loss Above 3.0 dB			0.8	dB
Phase Unbalance			6	deg.
Amplitude Unbalance			0.4	dB
Power Rating			10	W
Internal Load Dissipation			0.125	W

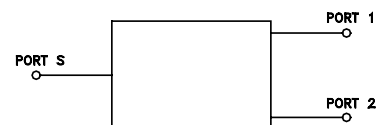
MAXIMUM RATINGS

Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C

COAXIAL CONNECTIONS

SUM PORT	S	N Male
PORT 1	1	N Female
PORT 2	2	N Female

Electrical Schematic



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RF/IF MICROWAVE COMPONENTS

REV. OR
M117878
ZAPD-4-13
080522

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Typical Performance Data

FREQUENCY (MHz)	TOTAL LOSS ¹ (dB)		AMPLITUDE UNBALANCE (dB)	ISOLATION (dB)	PHASE UNBALANCE (deg.)	FREQUENCY (MHz)	VSWR (:1)		
	S-1	S-2					S	1	2
2000.0	3.29	3.28	0.01	21.06	0.12	2000.0	1.33	1.10	1.10
2055.0	3.32	3.32	0.00	21.81	0.06	2055.0	1.32	1.11	1.11
2110.0	3.27	3.27	0.00	22.62	0.04	2110.0	1.30	1.12	1.11
2165.0	3.36	3.36	0.00	23.52	0.02	2165.0	1.28	1.12	1.12
2220.0	3.27	3.28	0.01	24.38	0.12	2220.0	1.27	1.12	1.12
2275.0	3.28	3.28	0.01	25.26	0.06	2275.0	1.26	1.12	1.13
2330.0	3.36	3.36	0.00	26.33	0.05	2330.0	1.26	1.13	1.15
2385.0	3.26	3.26	0.01	27.29	0.06	2385.0	1.25	1.14	1.16
2440.0	3.30	3.28	0.01	28.41	0.06	2440.0	1.24	1.15	1.17
2495.0	3.33	3.33	0.01	29.75	0.04	2495.0	1.23	1.15	1.18
2550.0	3.21	3.22	0.01	30.80	0.03	2550.0	1.23	1.16	1.19
2605.0	3.39	3.39	0.01	32.24	0.04	2605.0	1.23	1.16	1.20
2660.0	3.10	3.10	0.01	33.31	0.13	2660.0	1.22	1.16	1.20
2715.0	3.26	3.26	0.00	34.52	0.07	2715.0	1.22	1.15	1.20
2770.0	3.27	3.27	0.00	35.51	0.06	2770.0	1.22	1.16	1.21
2825.0	3.21	3.21	0.00	35.60	0.03	2825.0	1.23	1.18	1.23
2880.0	3.27	3.27	0.01	35.28	0.11	2880.0	1.24	1.19	1.25
2935.0	3.27	3.26	0.01	34.49	0.00	2935.0	1.24	1.20	1.26
2990.0	3.20	3.19	0.01	33.35	0.10	2990.0	1.24	1.21	1.27
3045.0	3.32	3.31	0.01	32.42	0.10	3045.0	1.24	1.22	1.28
3100.0	3.19	3.19	0.01	31.23	0.05	3100.0	1.23	1.20	1.27
3155.0	3.25	3.26	0.01	30.39	0.23	3155.0	1.23	1.19	1.27
3210.0	3.27	3.25	0.02	29.51	0.01	3210.0	1.24	1.20	1.27
3265.0	3.25	3.25	0.00	28.85	0.12	3265.0	1.24	1.21	1.27
3320.0	3.30	3.28	0.02	28.17	0.13	3320.0	1.25	1.22	1.28
3375.0	3.32	3.31	0.01	27.66	0.05	3375.0	1.24	1.22	1.29
3430.0	3.26	3.23	0.03	27.09	0.18	3430.0	1.24	1.23	1.29
3485.0	3.41	3.38	0.03	26.78	0.20	3485.0	1.22	1.23	1.28
3540.0	3.25	3.23	0.02	26.28	0.06	3540.0	1.20	1.21	1.26
3595.0	3.37	3.35	0.02	26.11	0.27	3595.0	1.18	1.18	1.25
3650.0	3.30	3.25	0.05	25.81	0.11	3650.0	1.17	1.17	1.23
3705.0	3.29	3.26	0.02	25.63	0.14	3705.0	1.17	1.16	1.21
3760.0	3.31	3.28	0.02	25.49	0.06	3760.0	1.16	1.15	1.20
3815.0	3.16	3.13	0.03	25.40	0.18	3815.0	1.15	1.15	1.19
3870.0	3.26	3.23	0.03	25.39	0.02	3870.0	1.13	1.15	1.20
3925.0	3.18	3.15	0.03	25.48	0.25	3925.0	1.12	1.15	1.19
3980.0	3.27	3.24	0.04	25.51	0.02	3980.0	1.10	1.13	1.17
4035.0	3.22	3.21	0.01	25.69	0.04	4035.0	1.09	1.12	1.16
4090.0	3.16	3.12	0.03	25.74	0.04	4090.0	1.09	1.10	1.15
4145.0	3.21	3.17	0.03	25.92	0.06	4145.0	1.10	1.09	1.14
4200.0	3.27	3.24	0.04	25.99	0.02	4200.0	1.10	1.08	1.13

¹Total Loss = Insertion Loss + 3dB Splitter Loss



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IF/RF MICROWAVE COMPONENTS

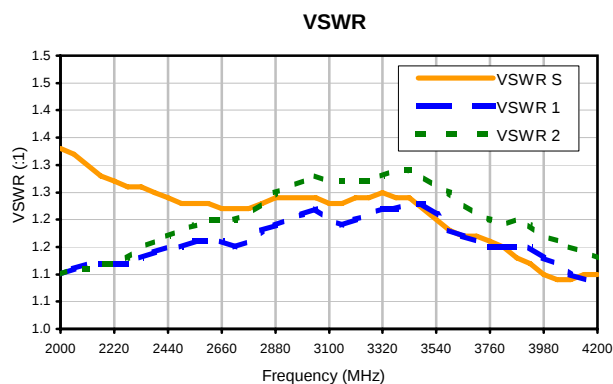
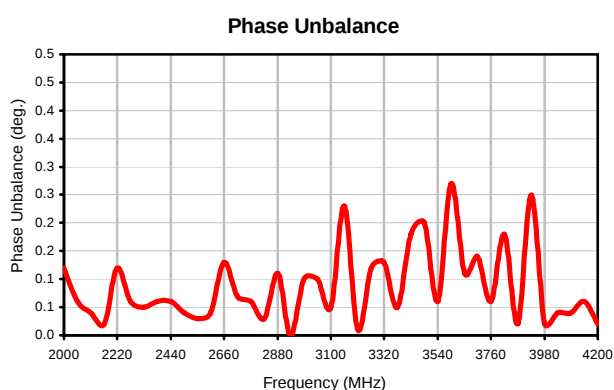
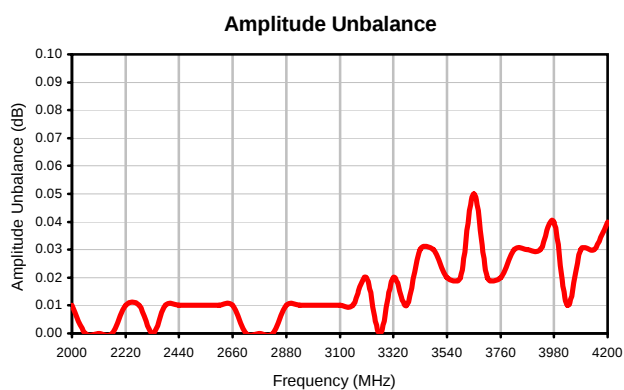
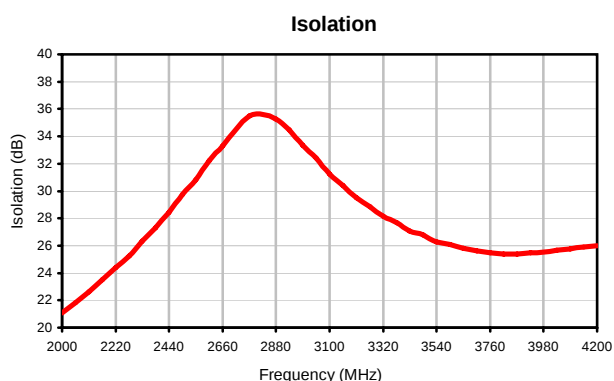
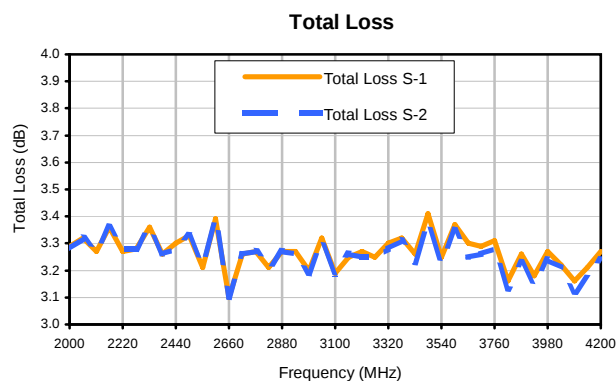


REV. X2
ZAPD-4-13
6/29/2010
Page 1 of 1

2 Way-0° Power Splitter/Combiner

ZAPD-4-13

Typical Performance Curves



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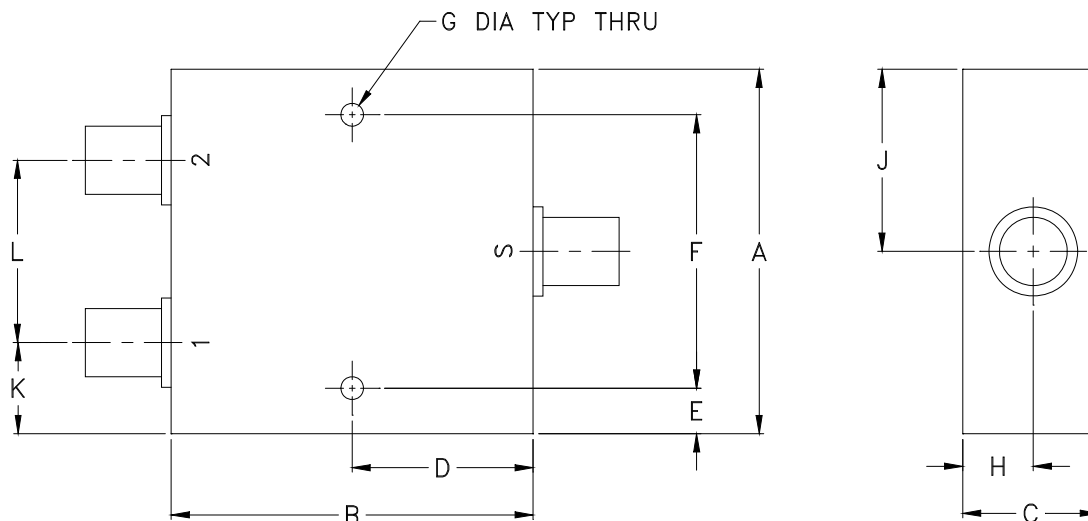


IF/RF MICROWAVE COMPONENTS

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REV. X2
ZAPD-4-13
6/29/2010
Page 1 of 1

Outline Dimensions



CASE #	A	B	C	D	E	F	G	H	J	K	L	WT. GRAM
F14	2.00 (50.80)	2.00 (50.80)	.75 (19.05)	1.00 (25.40)	.25 (6.35)	1.500 (38.10)	.125 (3.18)	.39 (9.91)	1.00 (25.40)	.50 (12.70)	1.00 (25.40)	170.0

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.
- Refer to the individual model data sheet for the type of connectors available.



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Mini-Circuits ISO 9001 & ISO 14001 Certified



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	-20° to 85°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