

Power Splitter/Combiner with amplifier

2 Way-0°

ZAPD-ED10436/1

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 : F14

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter		Min.	Typ.	Max. Units
Frequency		1300		1900 MHz
Isolation	1300 - 1900 MHz		38	dB
Gain @ 5V	1300 - 1900 MHz		6.45	dB
Phase Unbalance	1300 - 1900 MHz		4.00	deg.
Amplitude Unbalance	1300 - 1900 MHz		0.10	dB
VSWR	SUM Port		1.19	(:1)
	OUT Ports		1.29	(:1)
Noise Figure	1545-1605 MHz		3.60	dB
DC Power			4.5-5.5	V

MAXIMUM RATINGS	
Operating Temperature	-5°C to 70°C
Storage Temperature	-5°C to 70°C

COAXIAL CONNECTIONS	
ANTENNA IN	S
OUTPUT PROVIDING DC	1
OUTPUT DC BLOCKED	2

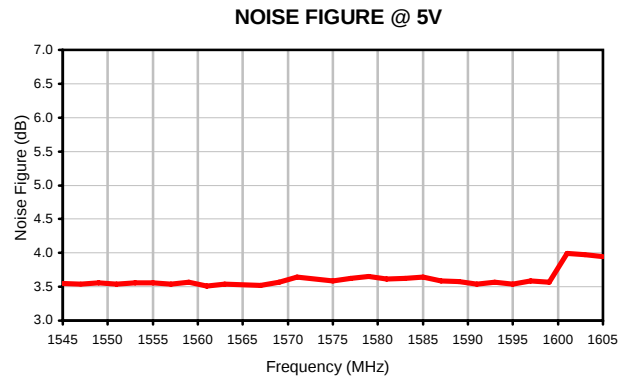
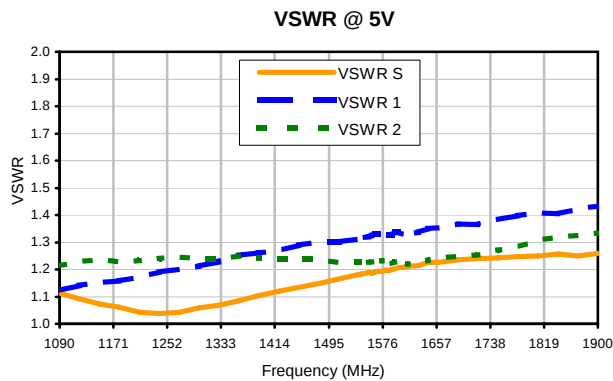
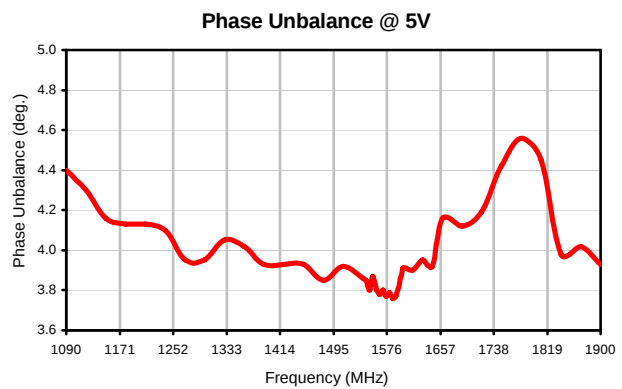
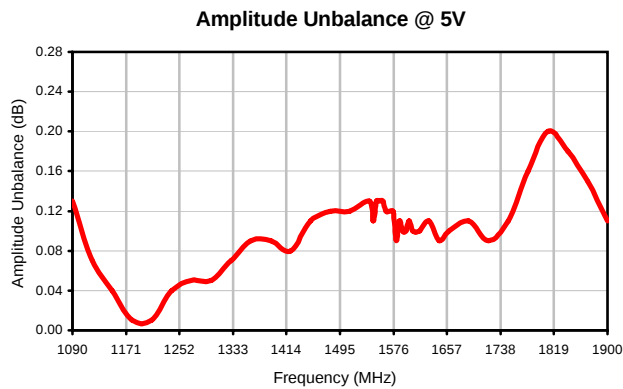
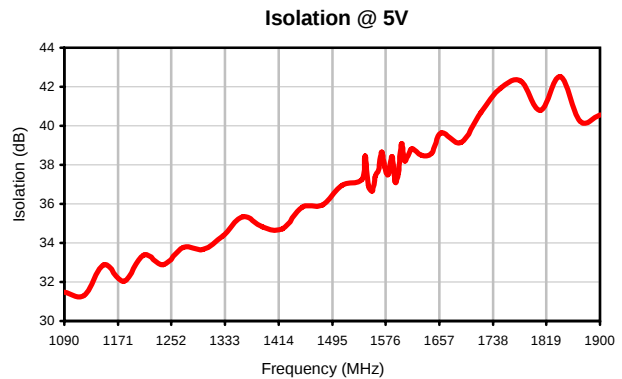
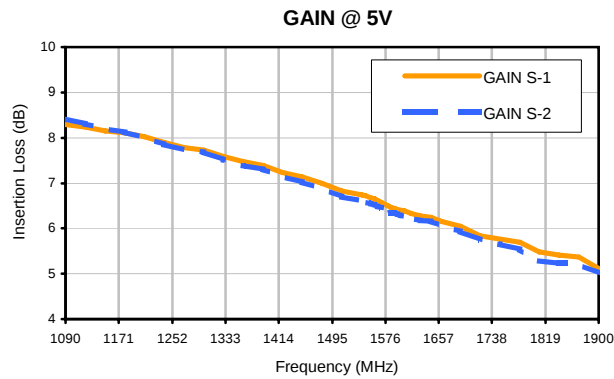
Functional Diagram



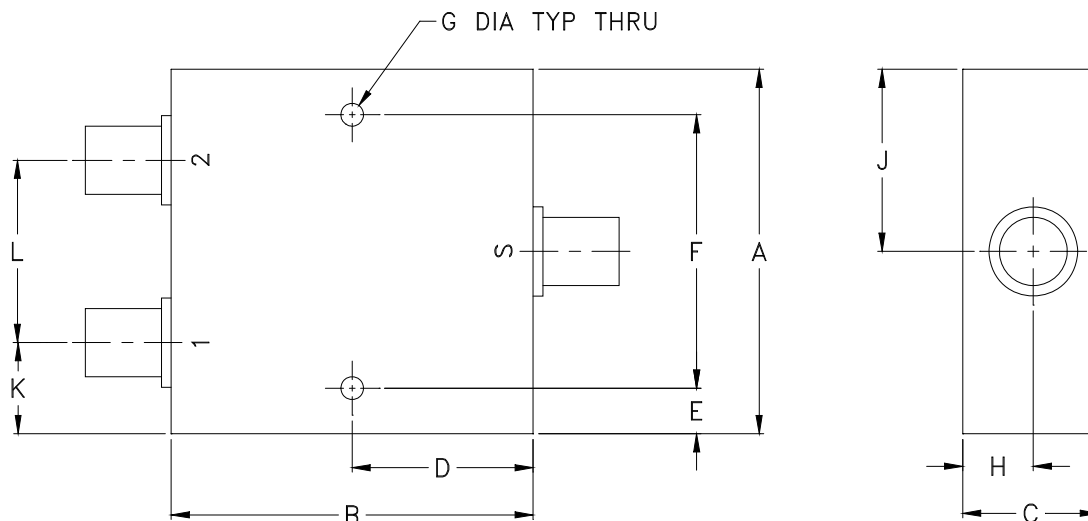
Typical Performance Data

FREQUENCY (MHz)	GAIN (dB)		AMPLITUDE UNBALANCE (dB)	ISOLATION (dB)	PHASE UNBALANCE (deg.)	FREQUENCY (MHz)	VSWR (:1)			FREQUENCY (MHz)	NOISE FIGURE (dB)
	S-1	S-2					S	1	2		
1090.00	8.29	8.42	0.13	31.46	4.40	1090.00	1.11	1.12	1.21	1545.00	3.55
1120.00	8.23	8.30	0.07	31.32	4.30	1120.00	1.09	1.14	1.23	1547.00	3.54
1150.00	8.15	8.19	0.04	32.87	4.16	1150.00	1.07	1.15	1.23	1549.00	3.56
1180.00	8.11	8.12	0.01	32.03	4.13	1180.00	1.06	1.16	1.23	1551.00	3.54
1210.00	8.02	8.01	0.01	33.37	4.13	1210.00	1.04	1.17	1.23	1553.00	3.56
1240.00	7.90	7.86	0.04	32.88	4.10	1240.00	1.04	1.19	1.24	1555.00	3.56
1270.00	7.78	7.73	0.05	33.77	3.95	1270.00	1.04	1.20	1.25	1557.00	3.54
1300.00	7.73	7.68	0.05	33.67	3.95	1300.00	1.06	1.21	1.24	1559.00	3.57
1330.00	7.59	7.52	0.07	34.35	4.05	1330.00	1.07	1.23	1.24	1561.00	3.51
1360.00	7.48	7.39	0.09	35.33	4.02	1360.00	1.09	1.25	1.25	1563.00	3.54
1390.00	7.39	7.30	0.09	34.83	3.93	1390.00	1.10	1.26	1.24	1565.00	3.53
1420.00	7.23	7.15	0.08	34.73	3.93	1420.00	1.12	1.27	1.24	1567.00	3.52
1450.00	7.13	7.02	0.11	35.83	3.93	1450.00	1.14	1.29	1.24	1569.00	3.57
1480.00	7.00	6.88	0.12	35.94	3.85	1480.00	1.15	1.30	1.24	1571.00	3.64
1510.00	6.82	6.70	0.12	36.94	3.92	1510.00	1.16	1.30	1.22	1573.00	3.61
1540.00	6.74	6.61	0.13	37.23	3.86	1540.00	1.18	1.31	1.23	1575.00	3.59
1545.00	6.72	6.61	0.11	38.47	3.85	1545.00	1.18	1.32	1.23	1577.00	3.62
1550.00	6.70	6.57	0.13	36.96	3.80	1550.00	1.19	1.32	1.23	1579.00	3.65
1555.00	6.67	6.54	0.13	36.66	3.87	1555.00	1.19	1.32	1.23	1581.00	3.61
1560.00	6.66	6.53	0.13	37.41	3.80	1560.00	1.19	1.33	1.23	1583.00	3.62
1565.00	6.61	6.49	0.12	37.75	3.78	1565.00	1.19	1.33	1.23	1585.00	3.64
1570.00	6.57	6.45	0.12	38.65	3.80	1570.00	1.19	1.33	1.23	1587.00	3.59
1575.00	6.53	6.41	0.12	37.87	3.77	1575.00	1.19	1.33	1.23	1589.00	3.58
1580.00	6.50	6.41	0.09	37.52	3.79	1580.00	1.20	1.33	1.23	1591.00	3.54
1585.00	6.45	6.34	0.11	38.42	3.76	1585.00	1.20	1.33	1.23	1593.00	3.57
1590.00	6.44	6.34	0.10	37.13	3.77	1590.00	1.20	1.33	1.22	1595.00	3.54
1595.00	6.42	6.32	0.10	37.59	3.84	1595.00	1.20	1.34	1.23	1597.00	3.59
1600.00	6.40	6.29	0.11	39.07	3.91	1600.00	1.21	1.34	1.23	1599.00	3.57
1605.00	6.38	6.28	0.10	38.19	3.91	1605.00	1.21	1.33	1.22	1601.00	3.99
1615.00	6.33	6.23	0.10	38.81	3.90	1615.00	1.21	1.33	1.22	1603.00	3.97
1630.00	6.28	6.17	0.11	38.49	3.95	1630.00	1.21	1.34	1.23	1605.00	3.95
1645.00	6.25	6.16	0.09	38.59	3.92	1645.00	1.22	1.35	1.23		
1660.00	6.16	6.06	0.10	39.65	4.16	1660.00	1.23	1.35	1.24		
1690.00	6.05	5.94	0.11	39.16	4.12	1690.00	1.23	1.37	1.25		
1720.00	5.84	5.75	0.09	40.70	4.19	1720.00	1.24	1.36	1.25		
1750.00	5.76	5.65	0.11	41.95	4.42	1750.00	1.24	1.38	1.27		
1780.00	5.70	5.54	0.16	42.31	4.56	1780.00	1.25	1.40	1.28		
1810.00	5.48	5.28	0.20	40.78	4.45	1810.00	1.25	1.41	1.30		
1840.00	5.41	5.23	0.18	42.54	3.98	1840.00	1.26	1.40	1.32		
1870.00	5.37	5.22	0.15	40.23	4.02	1870.00	1.25	1.42	1.33		
1900.00	5.12	5.01	0.11	40.57	3.93	1900.00	1.26	1.43	1.33		

Typical Performance Curves



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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