

Engineering Development Model

Power Splitter/Combiner with amplifier

2 Way-0°

ZAPD-ED10492/1

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.



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CASE STYLE : 99-01-929

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter		Min.	Typ.	Max. Units
Frequency		1090		1900 MHz
Isolation	1090 - 1900 MHz		33	dB
Gain	1090 - 1900 MHz		3.20	dB
Amplitude Unbalance	1090 - 1900 MHz		0.06	dB
VSWR	SUM Port		1.32	(:1)
	OUT Ports		1.20	(:1)
Noise Figure	1545-1605 MHz		3.50	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	J1
OUTPUT PROVIDING DC	J2
OUTPUT PROVIDING DC	J3, Right Angle

Functional Diagram



P.O. Box 350188, Brooklyn, New York 11235-0000 (718) 934-4500 Fax (718) 332-4851 For detailed performance specs & shopping online see Mini-Circuits web site



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Typical Performance Data

FREQ. (MHz)	GAIN (dB)		AMPL. (dB)	ISOL. (dB)	FREQ. (MHz)	VSWR (:1)			FREQ. (MHz)	NOISE FIGURE (dB)
	S-1	S-2				S	1	2		
1090.0	5.50	5.44	0.05	30.77	1090.0	1.56	1.16	1.40	1545.0	3.40
1120.0	5.30	5.17	0.13	30.86	1120.0	1.54	1.14	1.39	1547.0	3.42
1150.0	5.10	4.97	0.13	31.01	1150.0	1.50	1.13	1.39	1549.0	3.42
1180.0	4.94	4.86	0.08	31.83	1180.0	1.47	1.12	1.38	1551.0	3.41
1210.0	4.80	4.72	0.08	31.74	1210.0	1.45	1.12	1.37	1553.0	3.43
1240.0	4.58	4.38	0.20	31.57	1240.0	1.43	1.10	1.35	1555.0	3.43
1270.0	4.38	4.27	0.11	32.33	1270.0	1.41	1.09	1.35	1557.0	3.45
1300.0	4.28	4.23	0.04	32.61	1300.0	1.38	1.09	1.35	1559.0	3.46
1330.0	4.10	3.95	0.15	32.50	1330.0	1.36	1.09	1.33	1561.0	3.44
1360.0	3.92	3.84	0.08	32.20	1360.0	1.34	1.07	1.32	1563.0	3.45
1390.0	3.79	3.73	0.05	32.47	1390.0	1.33	1.06	1.32	1565.0	3.47
1420.0	3.59	3.51	0.08	32.38	1420.0	1.31	1.06	1.31	1567.0	3.46
1450.0	3.50	3.51	0.01	32.63	1450.0	1.29	1.05	1.30	1569.0	3.49
1480.0	3.31	3.23	0.08	32.73	1480.0	1.29	1.04	1.31	1571.0	3.50
1510.0	3.13	3.09	0.04	33.13	1510.0	1.27	1.04	1.30	1573.0	3.49
1540.0	3.05	3.11	0.06	32.70	1540.0	1.25	1.04	1.28	1575.0	3.50
1545.0	3.04	3.10	0.06	33.34	1545.0	1.25	1.04	1.29	1577.0	3.53
1550.0	3.00	3.03	0.03	32.46	1550.0	1.25	1.04	1.29	1579.0	3.52
1555.0	2.98	3.00	0.03	33.20	1555.0	1.25	1.04	1.28	1581.0	3.48
1560.0	2.96	2.95	0.01	33.32	1560.0	1.25	1.04	1.28	1583.0	3.52
1565.0	2.92	2.91	0.01	33.33	1565.0	1.25	1.04	1.28	1585.0	3.52
1570.0	2.88	2.85	0.03	33.51	1570.0	1.26	1.04	1.28	1587.0	3.50
1575.0	2.83	2.81	0.02	33.65	1575.0	1.26	1.04	1.28	1589.0	3.56
1580.0	2.81	2.78	0.03	33.46	1580.0	1.26	1.04	1.28	1591.0	3.56
1585.0	2.79	2.75	0.04	33.83	1585.0	1.26	1.04	1.28	1593.0	3.55
1590.0	2.76	2.73	0.03	33.11	1590.0	1.26	1.04	1.28	1595.0	3.53
1595.0	2.72	2.71	0.01	33.47	1595.0	1.26	1.04	1.28	1597.0	3.54
1600.0	2.72	2.74	0.02	32.89	1600.0	1.26	1.04	1.28	1599.0	3.53
1605.0	2.70	2.71	0.01	33.93	1605.0	1.26	1.05	1.28	1601.0	3.51
1615.0	2.66	2.70	0.04	33.95	1615.0	1.25	1.05	1.27	1603.0	3.53
1630.0	2.61	2.66	0.06	34.00	1630.0	1.25	1.05	1.27	1605.0	3.50
1645.0	2.58	2.64	0.07	35.03	1645.0	1.24	1.06	1.26		
1660.0	2.50	2.56	0.06	33.84	1660.0	1.24	1.06	1.27		
1690.0	2.36	2.45	0.08	33.71	1690.0	1.26	1.06	1.27		
1720.0	2.20	2.29	0.09	33.95	1720.0	1.28	1.07	1.26		
1750.0	2.12	2.36	0.24	34.33	1750.0	1.30	1.09	1.27		
1780.0	2.03	2.24	0.21	34.32	1780.0	1.31	1.10	1.27		
1810.0	1.88	1.98	0.10	35.16	1810.0	1.34	1.11	1.26		
1840.0	1.75	1.99	0.23	34.56	1840.0	1.37	1.12	1.25		
1870.0	1.62	1.85	0.23	34.06	1870.0	1.38	1.14	1.25		
1900.0	1.48	1.57	0.09	34.21	1900.0	1.40	1.15	1.26		



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Typical Performance Curves

