

Engineering Development Model

Power Splitter/Combiner RACK-2-ED11512/1 2 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.

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CASE STYLE : 99-01-1055

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter		Min.	Typ.	Max. Units
Frequency		1550		2950 MHz
Isolation	1550 - 2950 MHz		27	dB
Insertion Loss Above 3.0 dB	1550 - 2950 MHz		0.50	dB
Phase Unbalance	1550 - 2950 MHz		0.301	deg.
Amplitude Unbalance	1550 - 2950 MHz		0.081	dB
VSWR	SUM Port		1.15	(:1)
	OUT Ports		1.05	(:1)

MAXIMUM RATINGS	
Operating Temperature	-5°C to 85°C
Storage Temperature	-40°C to 85°C

Functional Diagram



2 Way-0° Power Splitter/Combiner RACK-2-ED11512/1

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	1	2
1550.0	3.35	3.28	0.07	15.90	0.02	1550.0	1.36	1.07	1.06
1600.0	3.34	3.28	0.07	16.39	0.01	1600.0	1.34	1.06	1.06
1650.0	3.34	3.27	0.07	17.13	0.02	1650.0	1.31	1.06	1.06
1700.0	3.33	3.26	0.07	18.00	0.05	1700.0	1.28	1.05	1.06
1750.0	3.33	3.26	0.07	18.96	0.09	1750.0	1.25	1.06	1.07
1800.0	3.32	3.25	0.07	20.03	0.11	1800.0	1.22	1.06	1.08
1850.0	3.32	3.25	0.08	21.23	0.15	1850.0	1.20	1.05	1.07
1900.0	3.32	3.24	0.08	22.60	0.19	1900.0	1.17	1.05	1.07
1950.0	3.32	3.24	0.08	24.21	0.23	1950.0	1.15	1.04	1.07
2000.0	3.32	3.24	0.08	26.18	0.24	2000.0	1.12	1.03	1.05
2050.0	3.32	3.24	0.08	28.47	0.27	2050.0	1.10	1.04	1.05
2100.0	3.32	3.24	0.08	30.46	0.27	2100.0	1.08	1.04	1.04
2110.0	3.32	3.24	0.08	31.03	0.28	2110.0	1.08	1.04	1.04
2115.0	3.32	3.24	0.08	32.36	0.28	2115.0	1.07	1.05	1.05
2120.0	3.32	3.24	0.08	33.01	0.29	2120.0	1.06	1.05	1.05
2125.0	3.32	3.24	0.08	33.48	0.27	2125.0	1.06	1.04	1.05
2130.0	3.32	3.24	0.08	33.96	0.27	2130.0	1.06	1.04	1.05
2135.0	3.32	3.25	0.08	34.44	0.28	2135.0	1.05	1.03	1.05
2140.0	3.33	3.25	0.08	34.98	0.30	2140.0	1.05	1.03	1.05
2145.0	3.33	3.25	0.08	35.57	0.30	2145.0	1.05	1.02	1.05
2150.0	3.33	3.25	0.08	36.22	0.29	2150.0	1.04	1.02	1.05
2155.0	3.33	3.25	0.08	36.89	0.27	2155.0	1.04	1.02	1.04
2160.0	3.33	3.25	0.08	37.63	0.27	2160.0	1.04	1.01	1.04
2165.0	3.33	3.25	0.08	39.34	0.29	2165.0	1.04	1.02	1.02
2170.0	3.34	3.26	0.08	39.31	0.29	2170.0	1.04	1.02	1.02
2200.0	3.34	3.26	0.08	38.92	0.30	2200.0	1.04	1.02	1.02
2250.0	3.34	3.26	0.08	38.38	0.32	2250.0	1.04	1.03	1.02
2300.0	3.35	3.27	0.08	36.03	0.34	2300.0	1.05	1.04	1.02
2350.0	3.37	3.29	0.08	31.83	0.36	2350.0	1.07	1.04	1.03
2400.0	3.39	3.30	0.08	28.66	0.40	2400.0	1.09	1.05	1.03
2450.0	3.40	3.32	0.08	26.44	0.41	2450.0	1.12	1.04	1.03
2500.0	3.41	3.33	0.08	24.72	0.43	2500.0	1.15	1.04	1.04
2550.0	3.42	3.33	0.09	23.31	0.43	2550.0	1.17	1.06	1.04
2600.0	3.43	3.34	0.09	22.11	0.45	2600.0	1.20	1.05	1.05
2650.0	3.43	3.35	0.09	21.06	0.48	2650.0	1.22	1.08	1.07
2700.0	3.44	3.35	0.09	20.13	0.50	2700.0	1.25	1.08	1.07
2750.0	3.46	3.37	0.09	19.29	0.50	2750.0	1.27	1.09	1.09
2800.0	3.47	3.38	0.09	18.52	0.51	2800.0	1.30	1.11	1.11
2850.0	3.48	3.39	0.09	17.81	0.52	2850.0	1.33	1.10	1.10
2900.0	3.50	3.40	0.10	17.21	0.52	2900.0	1.35	1.10	1.11
2950.0	3.51	3.41	0.10	16.79	0.53	2950.0	1.37	1.09	1.10

¹ Total Loss = Insertion Loss + 3dB Splitter Loss

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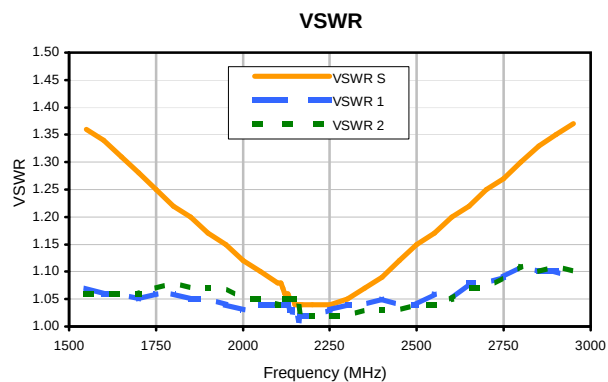
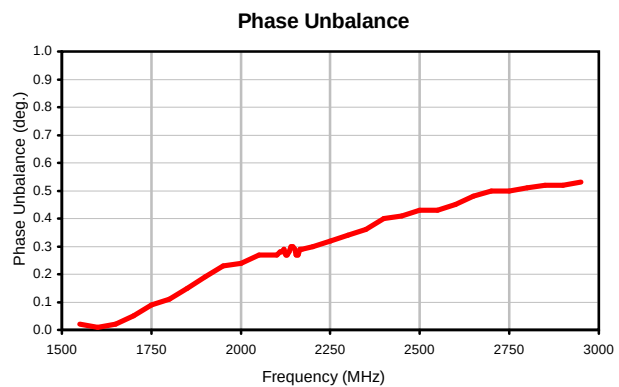
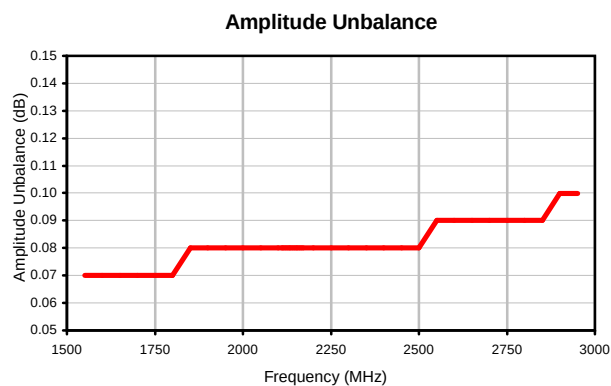
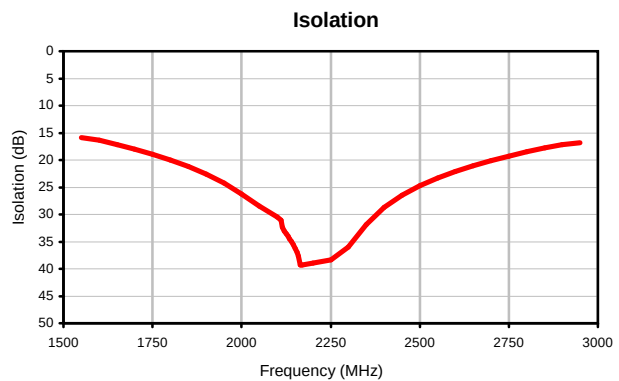
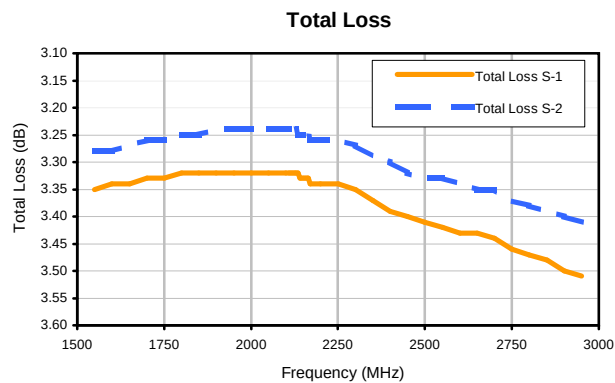
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Typical Performance Curves



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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	-5° to 85° C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-40° to 85° C Ambient Environment	Individual Model Data Sheet
Thermal Shock	-55° to 100°C, 100 cycles	MIL-STD-202, Method 107, Condition A-3, except +100°C
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