

Engineering Development Model

Power Splitter/Combiner RACK-2-ED12733/1

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.

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



CASE STYLE : 99-01-939

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter		Min.	Typ.	Max. Units
Frequency		400		1100 MHz
Isolation	400 - 1100 MHz		6	dB
Insertion Loss Above 3.0 dB	400 - 1100 MHz		0.20	dB
Phase Unbalance	400 - 1100 MHz		0.466	deg.
Amplitude Unbalance	400 - 1100 MHz		0.065	dB
VSWR	SUM Port		1.20	(:1)
	OUT Ports		2.85	(: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

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Typical Performance Data

FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	ISOLATION (dB) 1-2	PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1)		
	S-1	S-2					S	1	2
400.00	3.22	3.26	0.04	7.01	0.08	400.0	1.57	2.61	2.64
420.00	3.20	3.24	0.04	6.92	0.07	420.0	1.54	2.64	2.67
440.00	3.19	3.23	0.04	6.85	0.09	440.0	1.51	2.67	2.70
460.00	3.16	3.21	0.05	6.79	0.11	460.0	1.48	2.69	2.73
480.00	3.14	3.19	0.05	6.74	0.14	480.0	1.44	2.71	2.75
500.00	3.12	3.17	0.05	6.69	0.17	500.0	1.40	2.72	2.76
520.00	3.11	3.16	0.05	6.64	0.19	520.0	1.37	2.74	2.78
540.00	3.11	3.17	0.05	6.60	0.21	540.0	1.34	2.76	2.80
560.00	3.10	3.15	0.05	6.56	0.23	560.0	1.30	2.77	2.82
580.00	3.07	3.12	0.05	6.54	0.23	580.0	1.27	2.78	2.83
600.00	3.05	3.11	0.06	6.53	0.25	600.0	1.24	2.79	2.84
620.00	3.06	3.12	0.06	6.51	0.28	620.0	1.20	2.79	2.85
640.00	3.07	3.13	0.06	6.48	0.31	640.0	1.17	2.80	2.86
660.00	3.07	3.13	0.06	6.45	0.32	660.0	1.14	2.82	2.87
680.00	3.05	3.11	0.06	6.45	0.32	680.0	1.11	2.82	2.87
700.00	3.04	3.10	0.06	6.44	0.34	700.0	1.08	2.82	2.88
720.00	3.05	3.12	0.07	6.43	0.38	720.0	1.06	2.82	2.89
730.00	3.07	3.14	0.07	6.42	0.40	730.0	1.05	2.83	2.89
740.00	3.08	3.15	0.07	6.40	0.42	740.0	1.05	2.83	2.90
750.00	3.08	3.15	0.07	6.39	0.44	750.0	1.05	2.84	2.90
760.00	3.08	3.15	0.07	6.39	0.45	760.0	1.05	2.84	2.91
770.00	3.07	3.14	0.07	6.38	0.46	770.0	1.05	2.84	2.91
780.00	3.07	3.14	0.07	6.38	0.47	780.0	1.06	2.84	2.91
800.00	3.08	3.15	0.07	6.37	0.48	800.0	1.09	2.85	2.91
820.00	3.10	3.18	0.07	6.35	0.51	820.0	1.12	2.86	2.92
840.00	3.12	3.20	0.08	6.34	0.56	840.0	1.14	2.86	2.93
860.00	3.12	3.20	0.08	6.32	0.61	860.0	1.17	2.87	2.94
880.00	3.13	3.21	0.07	6.31	0.63	880.0	1.20	2.87	2.94
900.00	3.15	3.23	0.07	6.30	0.63	900.0	1.24	2.88	2.95
920.00	3.17	3.25	0.08	6.28	0.65	920.0	1.27	2.88	2.96
940.00	3.18	3.26	0.08	6.27	0.70	940.0	1.30	2.89	2.96
960.00	3.19	3.27	0.08	6.25	0.77	960.0	1.33	2.90	2.97
980.00	3.20	3.28	0.08	6.24	0.81	980.0	1.37	2.90	2.97
1000.00	3.22	3.29	0.07	6.23	0.82	1000.0	1.40	2.91	2.98
1020.00	3.24	3.31	0.08	6.23	0.82	1020.0	1.43	2.91	2.98
1040.00	3.26	3.34	0.08	6.22	0.85	1040.0	1.46	2.91	2.99
1060.00	3.26	3.34	0.08	6.21	0.91	1060.0	1.50	2.92	2.99
1080.00	3.26	3.34	0.08	6.20	1.00	1080.0	1.53	2.92	2.99
1100.00	3.26	3.33	0.07	6.21	1.05	1100.0	1.55	2.91	2.98

¹ Total Loss = Insertion Loss + 3dB Splitter Loss

REV. X2

RACK-2-ED12733/1

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Page 1 of 1



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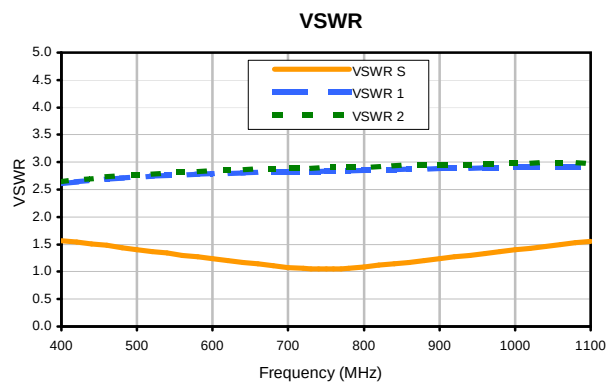
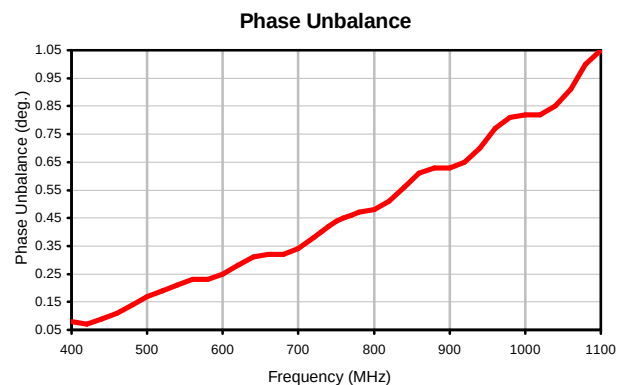
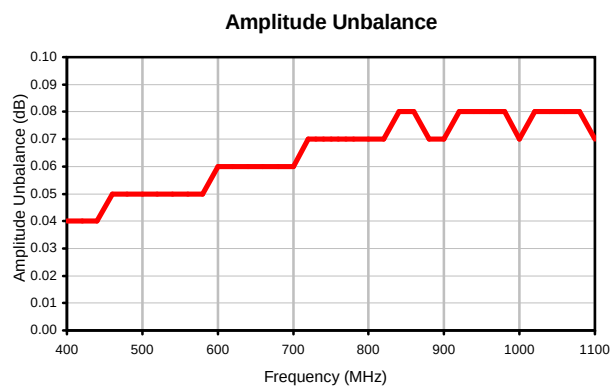
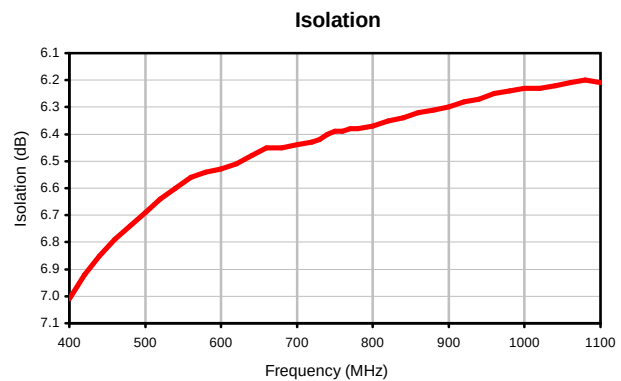
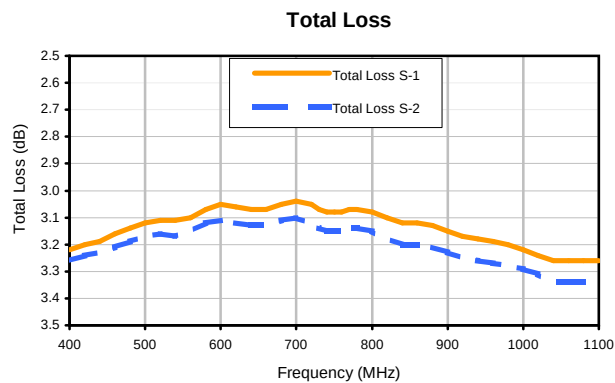
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Typical Performance Curves





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