

Engineering Development Model

Power Splitter/Combiner

ZC24PD-ED15112502

24 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.

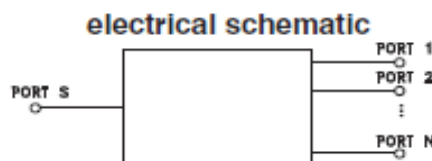
CONNECTOR: MMCX Female

CASE STYLE: 99-01-2104

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter	Min.	Typ.	Max.	Units
Frequency	2000		6000	MHz
Isolation		16		dB
Insertion Loss Above 13.8dB		2.2		dB
Phase Unbalance		10.0		deg.
Amplitude Unbalance		1.00		dB
VSWR	SUM Port	1.55		(:1)
	OUT Ports	1.35		(:1)

MAXIMUM RATINGS	
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C

COAXIAL CONNECTIONS	
SUM PORT	S
PORT 1	1
PORT 2	2
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.	.
.	.
PORT 24	24



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Typical Performance Data

FREQUENCY (MHz)	TOTAL LOSS ¹ (dB) S-1	AMPLITUDE UNBALANCE (dB)	ISOLATION (dB)		PHASE UNBALANCE (deg.)	FREQUENCY (MHz)	VSWR (:1)	
			Adjacent	Opposite			S	OUTPUT
2000	15.10	0.31	11.64	27.44	4.15	2000	1.91	1.16
2100	14.73	0.25	12.55	29.36	4.24	2100	1.37	1.16
2150	14.64	0.21	13.11	30.47	4.27	2150	1.18	1.17
2200	14.64	0.20	13.58	31.69	4.35	2200	1.25	1.18
2300	14.89	0.16	13.99	34.01	4.68	2300	1.67	1.15
2400	15.09	0.15	14.03	34.07	5.15	2400	1.94	1.11
2500	15.05	0.16	14.27	31.97	5.69	2500	1.83	1.10
2600	14.85	0.17	14.67	30.36	6.25	2600	1.49	1.10
2700	14.73	0.18	14.75	30.30	6.92	2700	1.20	1.07
2800	14.83	0.22	14.32	32.47	7.33	2800	1.37	1.09
2900	14.97	0.24	14.03	37.45	7.56	2900	1.56	1.17
3000	15.03	0.26	14.29	40.08	7.87	3000	1.56	1.23
3100	15.03	0.26	15.04	35.14	8.00	3100	1.52	1.30
3200	15.12	0.25	15.86	32.20	8.32	3200	1.65	1.33
3300	15.24	0.24	16.35	30.84	8.78	3300	1.79	1.33
3400	15.30	0.29	16.36	30.67	9.45	3400	1.75	1.38
3500	15.33	0.56	16.31	31.34	10.44	3500	1.64	1.43
3600	15.42	0.48	16.42	32.85	10.85	3600	1.67	1.49
3700	15.53	0.65	16.90	34.57	11.18	3700	1.78	1.53
3800	15.54	0.85	17.74	36.35	11.10	3800	1.69	1.54
3850	15.50	0.94	18.27	37.32	10.98	3850	1.54	1.54
3900	15.48	1.02	18.79	38.00	10.63	3900	1.38	1.54
4000	15.55	1.17	19.68	37.83	9.19	4000	1.22	1.54
4200	15.80	1.14	21.23	34.18	8.58	4200	1.50	1.52
4400	15.62	0.60	25.05	30.79	11.56	4400	1.34	1.41
4500	15.57	0.44	28.29	29.75	11.51	4500	1.47	1.38
4600	15.59	0.74	30.48	29.03	10.63	4600	1.52	1.37
4800	15.72	0.85	28.02	27.07	9.26	4800	1.12	1.37
5000	15.99	0.37	23.43	24.94	12.04	5000	1.59	1.43
5200	16.06	0.94	20.00	24.59	10.29	5200	1.72	1.44
5400	16.07	1.11	18.95	27.68	11.37	5400	1.53	1.34
5500	15.96	1.03	19.39	31.37	12.80	5500	1.23	1.24
5600	15.99	0.98	20.04	33.16	14.06	5600	1.24	1.20
5800	16.48	0.66	18.88	30.53	15.51	5800	2.03	1.15
6000	16.16	0.54	18.13	34.15	15.44	6000	1.28	1.30

¹Total Loss = Insertion Loss + 13.8dB Splitter Loss



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The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com



IF/RF MICROWAVE COMPONENTS

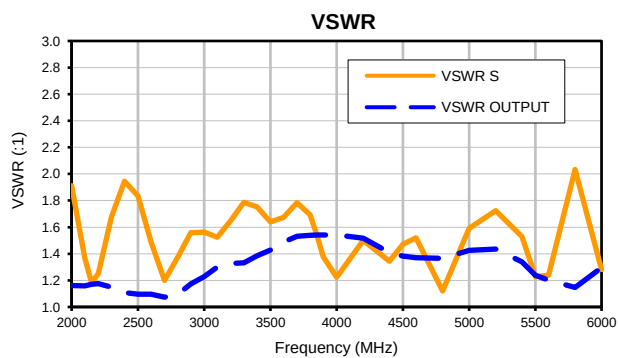
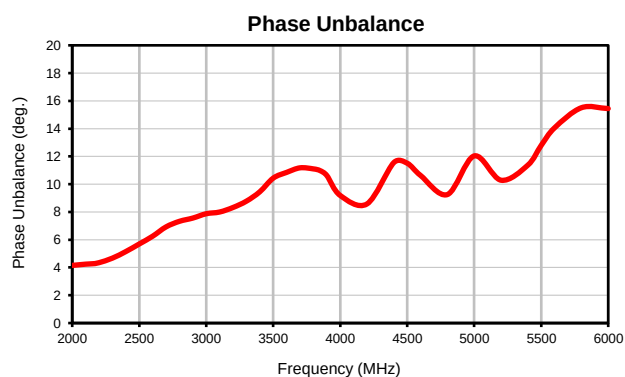
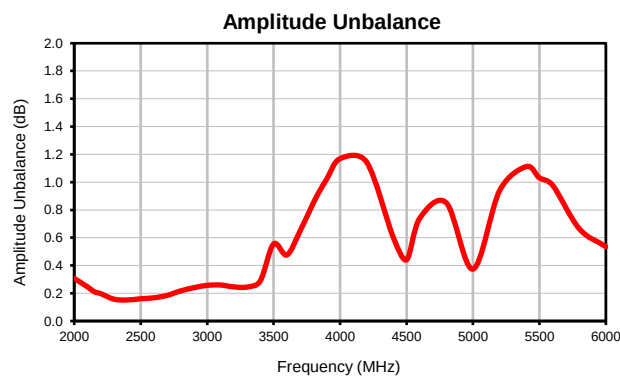
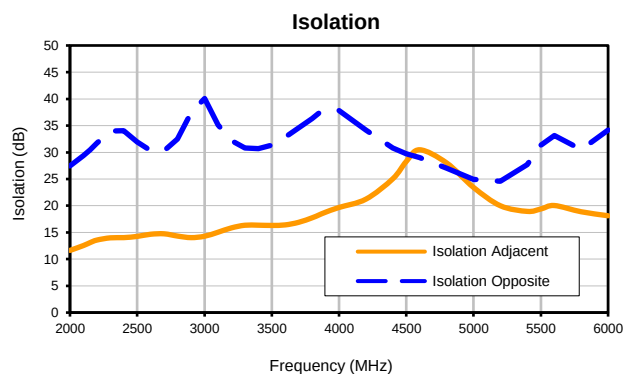
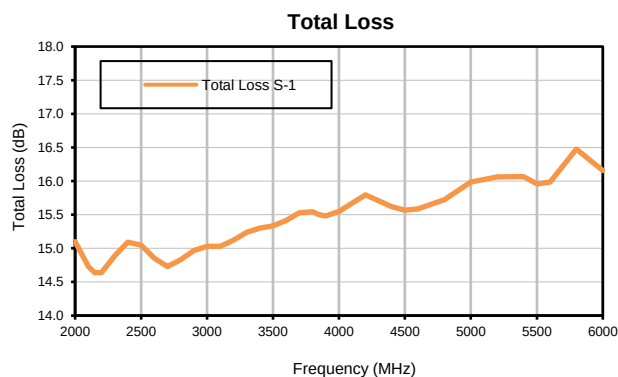
REV. X1

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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	-55° to 100°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