

Engineering Development Model

Power Splitter/Combiner ZN2PD2-ED16012202

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 : 99-01-845-1

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter		Min.	Typ.	Max. Units
Frequency		350		6500 MHz
Isolation	350-3500 MHz		25	dB
	3500-6000 MHz		22	
Insertion Loss Above 3.0 dB	350-3500 MHz		0.43	dB
	3500-6000 MHz		0.80	
Phase Unbalance	350-3500 MHz		0.214	deg.
	3500-6000 MHz		1.097	
Amplitude Unbalance	350-3500 MHz		0.051	dB
	3500-6000 MHz		0.062	
VSWR	SUM Port		1.50	(: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

electrical schematic



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Typical Performance Data

FREQUENCY (MHz)	TOTAL LOSS ¹ (dB)		AMPLITUDE UNBALANCE (dB)	ISOLATION (dB) 1-2	PHASE UNBALANCE (deg.)	FREQUENCY (MHz)	VSWR (:1)		
	S-1	S-2					S	1	2
200	3.44	3.44	0.00	10.67	0.04	200	1.76	1.29	1.29
250	3.39	3.39	0.00	12.76	0.03	250	1.67	1.22	1.22
300	3.33	3.32	0.00	15.02	0.05	300	1.57	1.19	1.19
350	3.26	3.27	0.00	17.71	0.10	350	1.46	1.17	1.16
400	3.22	3.22	0.01	21.24	0.08	400	1.36	1.15	1.15
450	3.18	3.18	0.00	26.47	0.07	450	1.26	1.14	1.14
500	3.16	3.15	0.00	35.64	0.12	500	1.18	1.13	1.13
600	3.15	3.15	0.01	25.52	0.13	600	1.10	1.10	1.11
650	3.17	3.17	0.00	22.64	0.12	650	1.14	1.10	1.10
700	3.19	3.19	0.01	21.03	0.20	700	1.19	1.10	1.10
750	3.22	3.22	0.00	20.23	0.23	750	1.25	1.11	1.11
800	3.25	3.24	0.00	20.04	0.16	800	1.29	1.13	1.13
850	3.27	3.26	0.02	20.33	0.19	850	1.32	1.16	1.16
900	3.28	3.27	0.02	21.17	0.27	900	1.33	1.18	1.18
950	3.28	3.28	0.01	22.60	0.26	950	1.33	1.20	1.20
1000	3.29	3.27	0.01	24.76	0.18	1000	1.31	1.21	1.21
1100	3.27	3.25	0.02	32.53	0.27	1100	1.22	1.21	1.21
1200	3.25	3.23	0.02	29.68	0.14	1200	1.11	1.18	1.17
1300	3.25	3.23	0.02	23.98	0.19	1300	1.05	1.14	1.14
1400	3.28	3.26	0.02	21.71	0.15	1400	1.15	1.14	1.14
1500	3.32	3.30	0.02	21.48	0.19	1500	1.25	1.19	1.19
1600	3.34	3.32	0.02	22.92	0.20	1600	1.29	1.24	1.24
1700	3.33	3.32	0.02	26.30	0.23	1700	1.27	1.26	1.25
1800	3.32	3.30	0.02	30.53	0.24	1800	1.20	1.24	1.23
1900	3.30	3.28	0.02	28.18	0.25	1900	1.10	1.19	1.18
2000	3.30	3.28	0.02	24.82	0.26	2000	1.04	1.15	1.14
2100	3.33	3.31	0.02	23.42	0.26	2100	1.12	1.15	1.14
2200	3.37	3.35	0.02	23.87	0.27	2200	1.21	1.20	1.19
2300	3.40	3.38	0.02	26.27	0.29	2300	1.27	1.27	1.25
2400	3.42	3.40	0.02	32.24	0.30	2400	1.30	1.31	1.30
2500	3.43	3.41	0.02	36.61	0.29	2500	1.29	1.33	1.32
2600	3.42	3.40	0.02	28.41	0.31	2600	1.25	1.31	1.31
2700	3.41	3.39	0.02	24.96	0.29	2700	1.19	1.26	1.27
2800	3.40	3.38	0.02	23.80	0.34	2800	1.11	1.21	1.22
2900	3.41	3.38	0.03	24.36	0.34	2900	1.06	1.20	1.21
3000	3.42	3.41	0.01	26.77	0.33	3000	1.13	1.24	1.25
3200	3.51	3.49	0.02	27.02	0.33	3200	1.32	1.37	1.39
3400	3.58	3.55	0.02	20.55	0.35	3400	1.41	1.37	1.39
3500	3.59	3.56	0.04	19.19	0.58	3500	1.41	1.31	1.31
3600	3.59	3.55	0.04	18.63	0.33	3600	1.38	1.21	1.21
3800	3.59	3.54	0.06	18.94	0.35	3800	1.29	1.02	1.01
4000	3.55	3.48	0.07	19.57	0.43	4000	1.16	1.09	1.10
4200	3.55	3.47	0.08	21.31	0.43	4200	1.07	1.12	1.10
4400	3.59	3.50	0.08	26.40	0.38	4400	1.06	1.11	1.08
4500	3.63	3.53	0.09	27.27	0.33	4500	1.12	1.12	1.10
4600	3.69	3.61	0.08	23.98	0.36	4600	1.24	1.15	1.14
4800	3.86	3.77	0.09	19.23	0.30	4800	1.49	1.20	1.23
5000	3.80	3.71	0.09	19.96	0.18	5000	1.37	1.15	1.20
5200	3.76	3.65	0.11	30.44	0.09	5200	1.17	1.17	1.22
5400	4.13	4.00	0.13	19.26	0.11	5400	1.72	1.31	1.41
5500	4.19	4.08	0.11	16.70	0.33	5500	1.81	1.29	1.39
5600	4.08	3.93	0.15	15.77	0.09	5600	1.67	1.18	1.28
5800	3.82	3.69	0.12	18.72	0.11	5800	1.08	1.15	1.22
6000	4.03	3.88	0.15	20.83	0.30	6000	1.37	1.22	1.33
6200	4.34	4.16	0.18	15.78	0.01	6200	1.68	1.20	1.13

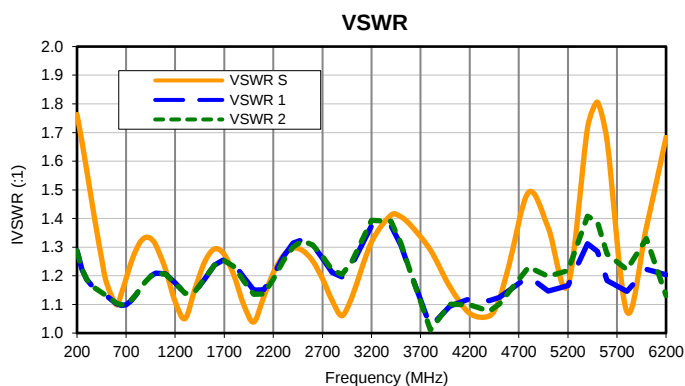
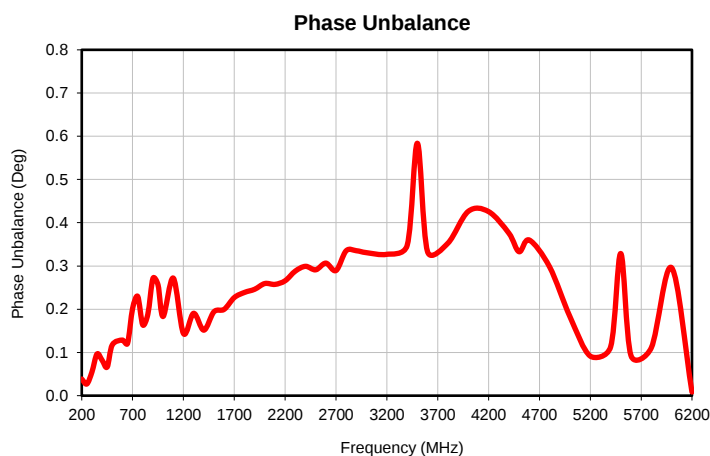
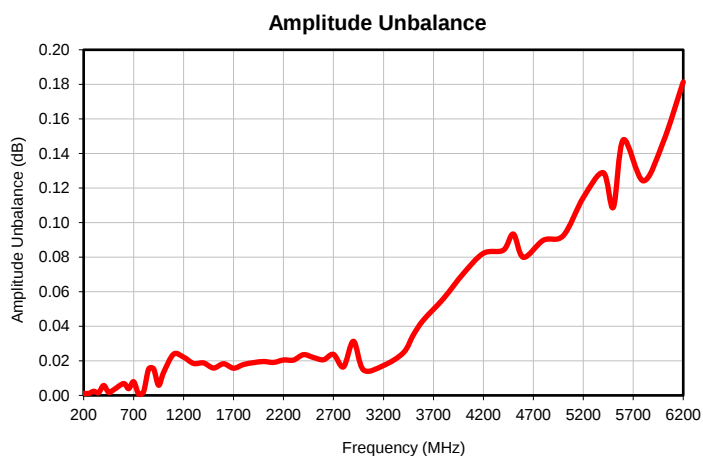
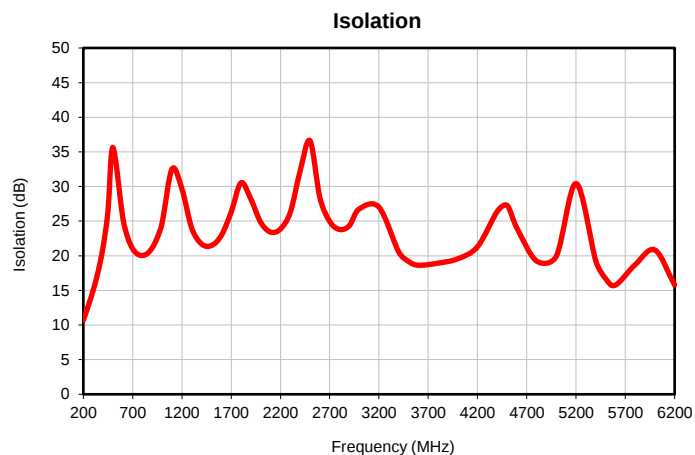
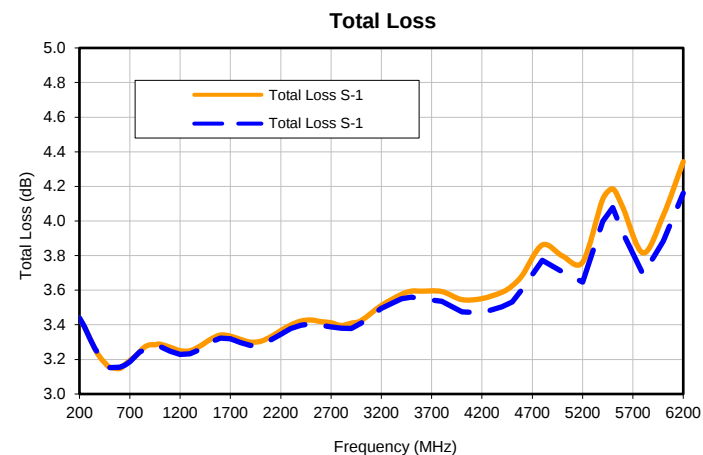
¹Total Loss = Insertion Loss + 3dB Splitter Loss



2 Way-0° Power Splitter/Combiner

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Typical Performance Curves



Mini-Circuits®
ISO 9001 ISO 14001 AS 9100 CERTIFIED

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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	-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