

Engineering Development Model

Power Splitter/Combiner

ZX-ED10227/1

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 : 99-01-910

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter	Min.	Typ.	Max.	Units
Frequency	8000		12000	MHz
Isolation	8000 - 12000 MHz	25		dB
Insertion Loss Above 3.0 dB	8000 - 12000 MHz	0.30		dB
Phase Unbalance	8000 - 12000 MHz	2.180		deg.
Amplitude Unbalance	8000 - 12000 MHz	0.027		dB
VSWR	SUM Port	1.30		(:1)
	OUT Ports	1.30		(:1)

MAXIMUM RATINGS	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C

PIN CONNECTIONS	
SUM PORT	S
PORT 1	1
PORT 2	2

Functional Diagram



2 Way-0° Power Splitter/Combiner

ZX-ED10227/1

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
8000.0	3.33	3.32	0.01	13.56	2.67	8000.0	1.36	1.20	1.23
8100.0	3.33	3.32	0.01	14.02	2.63	8100.0	1.35	1.20	1.22
8200.0	3.33	3.32	0.01	14.31	2.59	8200.0	1.34	1.22	1.23
8300.0	3.33	3.33	0.01	14.73	2.54	8300.0	1.32	1.25	1.24
8400.0	3.33	3.32	0.01	15.17	2.48	8400.0	1.30	1.26	1.26
8500.0	3.32	3.32	0.01	15.40	2.43	8500.0	1.29	1.25	1.25
8600.0	3.33	3.33	0.00	15.98	2.42	8600.0	1.29	1.23	1.23
8700.0	3.32	3.32	0.00	16.32	2.45	8700.0	1.29	1.23	1.20
8800.0	3.31	3.31	0.00	16.80	2.46	8800.0	1.28	1.24	1.20
8900.0	3.29	3.30	0.01	17.47	2.54	8900.0	1.27	1.27	1.21
9000.0	3.27	3.28	0.01	17.91	2.62	9000.0	1.25	1.28	1.23
9100.0	3.25	3.26	0.01	18.67	2.63	9100.0	1.24	1.27	1.23
9200.0	3.23	3.24	0.01	19.40	2.63	9200.0	1.24	1.26	1.21
9300.0	3.22	3.23	0.01	20.14	2.63	9300.0	1.23	1.24	1.18
9400.0	3.21	3.22	0.01	21.06	2.62	9400.0	1.22	1.23	1.16
9500.0	3.19	3.20	0.01	21.95	2.58	9500.0	1.21	1.24	1.16
9600.0	3.18	3.18	0.01	22.94	2.53	9600.0	1.19	1.25	1.17
9700.0	3.17	3.17	0.00	24.02	2.47	9700.0	1.17	1.25	1.16
9800.0	3.16	3.15	0.00	25.19	2.30	9800.0	1.16	1.22	1.14
9900.0	3.15	3.14	0.01	26.50	2.16	9900.0	1.14	1.19	1.11
10000.0	3.15	3.13	0.01	27.71	2.09	10000.0	1.12	1.17	1.08
10100.0	3.15	3.13	0.02	28.64	2.03	10100.0	1.09	1.17	1.08
10200.0	3.16	3.13	0.03	28.95	1.97	10200.0	1.06	1.18	1.08
10300.0	3.15	3.12	0.04	28.74	1.92	10300.0	1.04	1.16	1.07
10400.0	3.15	3.11	0.04	28.06	1.87	10400.0	1.03	1.13	1.04
10500.0	3.15	3.10	0.05	27.09	1.81	10500.0	1.04	1.10	1.01
10600.0	3.14	3.10	0.05	26.07	1.77	10600.0	1.08	1.07	1.02
10700.0	3.15	3.10	0.05	25.15	1.72	10700.0	1.12	1.06	1.04
10800.0	3.16	3.10	0.06	24.38	1.70	10800.0	1.17	1.05	1.06
10900.0	3.18	3.11	0.07	23.59	1.66	10900.0	1.22	1.04	1.07
11000.0	3.20	3.13	0.07	22.94	1.67	11000.0	1.26	1.03	1.09
11100.0	3.23	3.15	0.08	22.40	1.67	11100.0	1.30	1.06	1.14
11200.0	3.26	3.18	0.08	21.73	1.69	11200.0	1.36	1.09	1.18
11300.0	3.30	3.23	0.07	21.33	1.70	11300.0	1.43	1.11	1.22
11400.0	3.34	3.28	0.06	20.69	1.71	11400.0	1.52	1.13	1.24
11500.0	3.40	3.35	0.05	20.27	1.77	11500.0	1.58	1.15	1.26
11600.0	3.47	3.42	0.05	20.11	1.88	11600.0	1.64	1.19	1.29
11700.0	3.54	3.50	0.04	19.86	1.98	11700.0	1.70	1.27	1.35
11800.0	3.59	3.57	0.03	19.99	2.06	11800.0	1.78	1.34	1.42
11900.0	3.64	3.63	0.01	19.79	2.13	11900.0	1.88	1.39	1.48
12000.0	3.68	3.68	0.00	19.67	2.19	12000.0	1.98	1.42	1.51

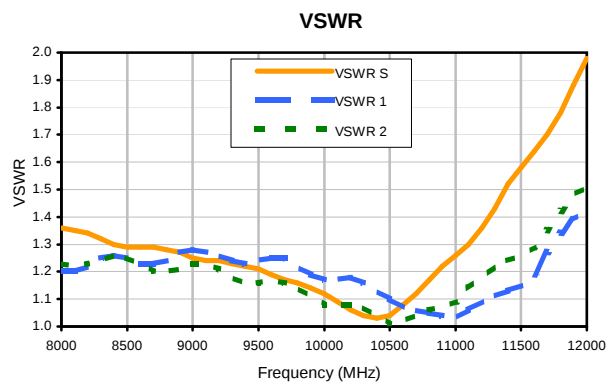
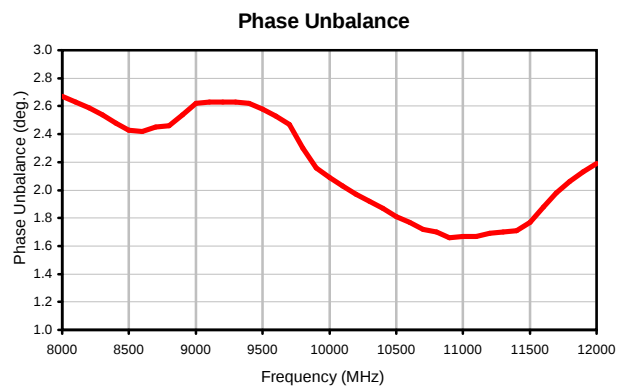
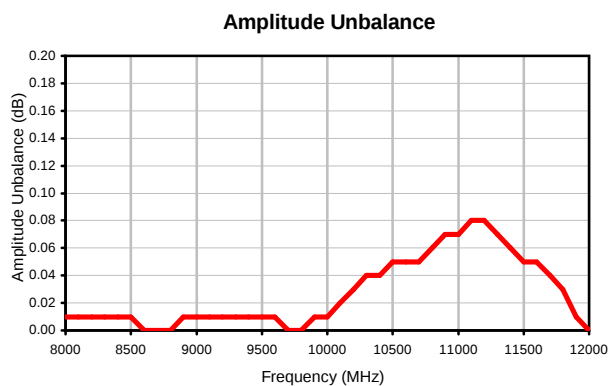
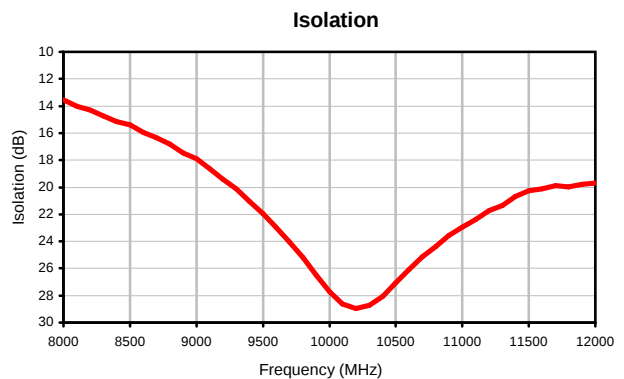
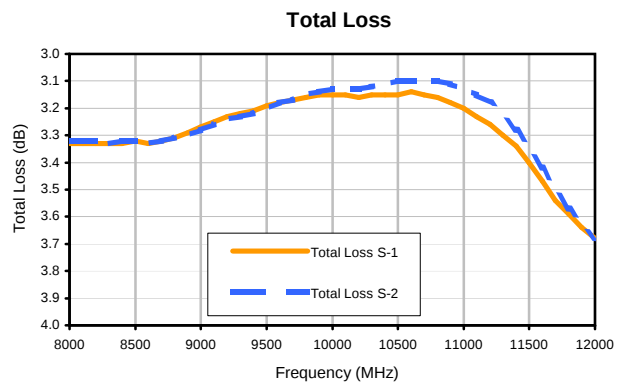
¹ Total Loss = Insertion Loss + 3dB Splitter Loss

REV. X2
ZX-ED10227/1
100707
Page 1 of 1

2 Way-0° Power Splitter/Combiner

ZX-ED10227/1

Typical Performance Curves



REV. X2
ZX-ED10227/1
100707
Page 1 of 1



Mini-Circuits®

RF/MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED • RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

The Design Engineers Search Engine finds the model you need, instantly • For detailed performance specs & shopping online see minicircuits.com