

Power Splitter/Combiner

ZX10-ED10281/2

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 : FL905

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter		Min.	Typ.	Max. Units
Frequency		1540		4260 MHz
Isolation	1540 - 4260 MHz		14	dB
Insertion Loss Above 3.0 dB	1540 - 4260 MHz		0.40	dB
Phase Unbalance	1540 - 4260 MHz		1.008	deg.
Amplitude Unbalance	1540 - 4260 MHz		0.019	dB
VSWR	SUM Port		1.64	(:1)
	OUT Ports		1.08	(:1)

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

PIN CONNECTIONS	
SUM PORT	3
PORT 1	1
PORT 2	2

Functional Diagram



2 Way-0° Power Splitter/Combiner

ZX10-ED10281/2

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
1510.0	3.51	3.51	0.01	9.82	0.55	1510.0	1.88	1.06	1.05
1540.0	3.51	3.52	0.01	10.01	0.50	1540.0	1.87	1.06	1.05
1570.0	3.49	3.51	0.02	10.17	0.52	1570.0	1.86	1.06	1.05
1600.0	3.51	3.52	0.01	10.36	0.63	1600.0	1.86	1.06	1.05
1630.0	3.48	3.50	0.02	10.52	0.58	1630.0	1.85	1.06	1.05
1660.0	3.50	3.51	0.01	10.73	0.75	1660.0	1.84	1.06	1.05
1690.0	3.49	3.51	0.01	10.90	0.64	1690.0	1.84	1.06	1.05
1720.0	3.48	3.50	0.02	11.12	0.61	1720.0	1.83	1.06	1.05
1750.0	3.49	3.51	0.01	11.30	0.64	1750.0	1.83	1.07	1.05
1780.0	3.46	3.48	0.01	11.46	0.73	1780.0	1.82	1.07	1.06
1810.0	3.47	3.49	0.02	11.70	0.50	1810.0	1.82	1.07	1.06
1840.0	3.46	3.47	0.00	11.90	0.62	1840.0	1.81	1.08	1.07
1870.0	3.44	3.45	0.01	12.07	0.63	1870.0	1.80	1.08	1.07
1900.0	3.45	3.45	0.00	12.33	0.70	1900.0	1.79	1.08	1.07
2040.0	3.42	3.44	0.02	13.42	0.71	2040.0	1.71	1.09	1.08
2180.0	3.37	3.36	0.01	14.64	0.74	2180.0	1.62	1.10	1.09
2320.0	3.29	3.32	0.03	16.11	0.87	2320.0	1.54	1.08	1.08
2460.0	3.26	3.26	0.01	17.92	0.91	2460.0	1.47	1.09	1.08
2600.0	3.19	3.19	0.00	20.16	1.05	2600.0	1.39	1.08	1.08
2760.0	3.19	3.18	0.01	23.66	1.02	2760.0	1.26	1.05	1.05
2920.0	3.10	3.12	0.02	27.75	1.18	2920.0	1.14	1.02	1.03
3080.0	3.13	3.13	0.00	27.71	1.21	3080.0	1.05	1.03	1.03
3240.0	3.11	3.11	0.00	23.53	1.50	3240.0	1.07	1.03	1.02
3400.0	3.13	3.16	0.03	20.10	1.54	3400.0	1.19	1.05	1.03
3540.0	3.23	3.27	0.04	17.91	1.30	3540.0	1.31	1.07	1.05
3680.0	3.26	3.29	0.03	16.12	1.55	3680.0	1.40	1.07	1.06
3820.0	3.31	3.36	0.05	14.58	1.52	3820.0	1.51	1.09	1.08
3960.0	3.47	3.51	0.04	13.34	1.30	3960.0	1.65	1.13	1.12
4100.0	3.48	3.52	0.03	12.21	1.48	4100.0	1.78	1.15	1.15
4150.0	3.54	3.58	0.04	11.90	1.37	4150.0	1.83	1.16	1.16
4200.0	3.52	3.55	0.03	11.51	1.50	4200.0	1.87	1.17	1.18
4230.0	3.57	3.60	0.04	11.35	1.47	4230.0	1.89	1.18	1.19
4260.0	3.64	3.67	0.03	11.22	1.48	4260.0	1.90	1.19	1.20
4290.0	3.58	3.61	0.03	10.97	1.55	4290.0	1.91	1.20	1.21
4320.0	3.56	3.59	0.03	10.74	1.67	4320.0	1.92	1.20	1.22
4350.0	3.67	3.72	0.05	10.66	1.48	4350.0	1.93	1.21	1.24
4380.0	3.67	3.71	0.03	10.47	1.48	4380.0	1.94	1.22	1.25
4410.0	3.64	3.66	0.03	10.22	1.68	4410.0	1.95	1.24	1.26
4440.0	3.64	3.70	0.06	10.08	1.67	4440.0	1.97	1.25	1.28
4470.0	3.74	3.78	0.05	9.95	1.42	4470.0	1.99	1.28	1.30
4500.0	3.75	3.80	0.05	9.78	1.52	4500.0	2.00	1.30	1.31

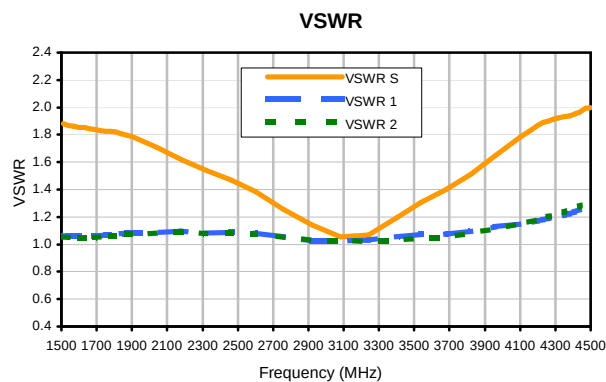
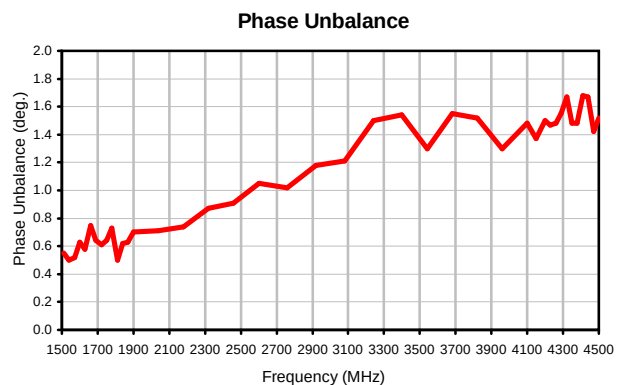
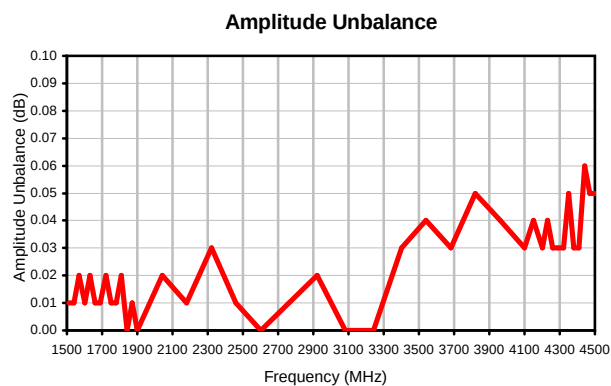
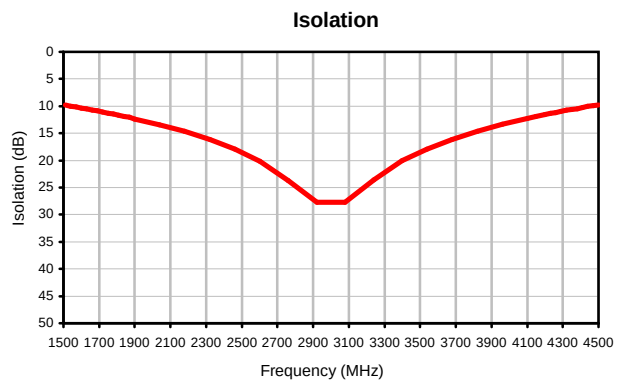
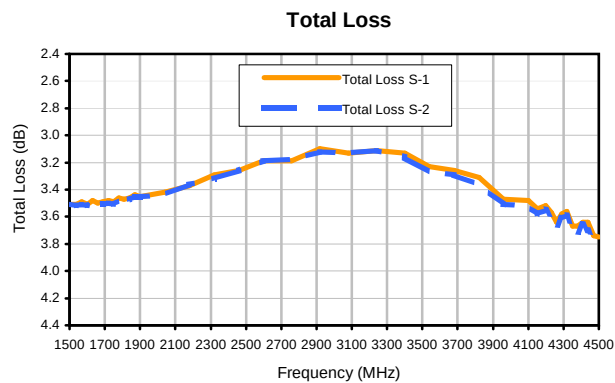
¹ Total Loss = Insertion Loss + 3dB Splitter Loss

REV. X2
ZX10-ED10281/2
100707
Page 1 of 1

2 Way-0° Power Splitter/Combiner

ZX10-ED10281/2

Typical Performance Curves



REV. X2
ZX10-ED10281/2
100707
Page 1 of 1



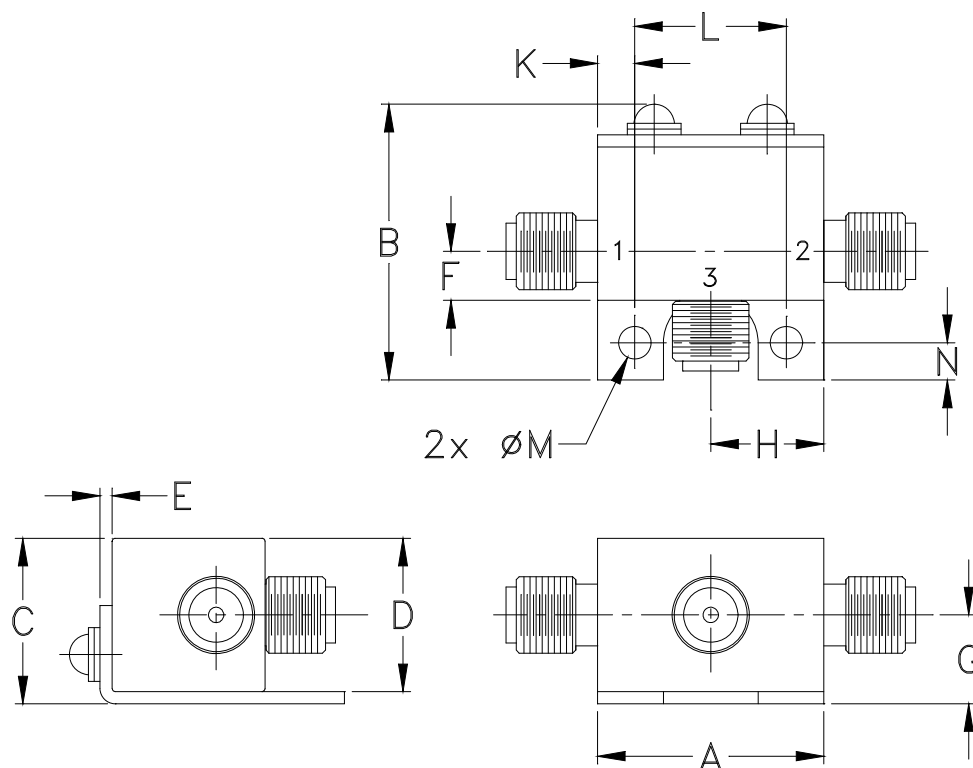
Mini-Circuits®

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



Outline Dimensions



CASE #.	A	B	C	D	E	F	G	H	J	K	L	M	N	WT, GRAM
FL905	.74 (18.80)	.90 (22.86)	.54 (13.72)	.50 (12.70)	.04 (1.02)	.16 (4.06)	.29 (7.37)	.37 (9.40)	- -	.122 (3.10)	.496 (12.60)	.106 (2.69)	.122 (3.10)	20.0

Dimensions are in inches (mm). Tolerances: 2Pl. $\pm .03$; 3Pl. $\pm .015$.

Tolerance on hole size and interaxes dimensions to be $\pm .005$.

Notes:

1. Case material: Brass.
2. Case finish: Nickel plate.



INTERNET <http://www.minicircuits.com>

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

Distribution Centers NORTH AMERICA 800-654-7949 • 417-335-5935 • Fax 417-335-5945 • EUROPE 44-1252-832600 • Fax 44-1252-837010

Mini-Circuits ISO 9001 & ISO 14001 Certified



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	-40° to 85°C	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