

Power Splitter/Combiner

ZX10-ED10280/1

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 : FL905

ELECTRICAL SPECIFICATIONS 50Ω @ +25°C				
Parameter		Min.	Typ.	Max. Units
Frequency		5280		10200 MHz
Isolation	5280 - 10200 MHz		19	dB
Insertion Loss Above 3.0 dB	5280 - 10200 MHz		0.50	dB
Phase Unbalance	5280 - 10200 MHz		0.600	deg.
Amplitude Unbalance	5280 - 10200 MHz		0.063	dB
VSWR	SUM Port		1.42	(:1)
	OUT Ports		1.31	(: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



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Typical Performance Data

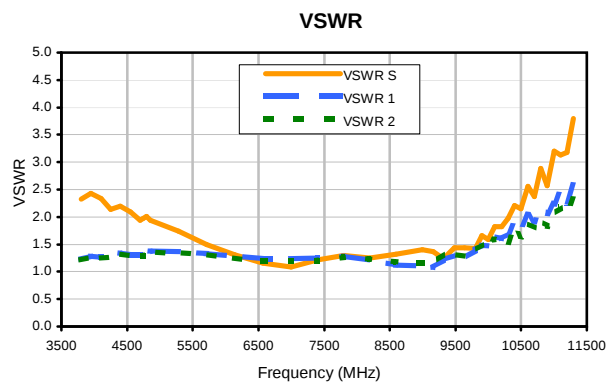
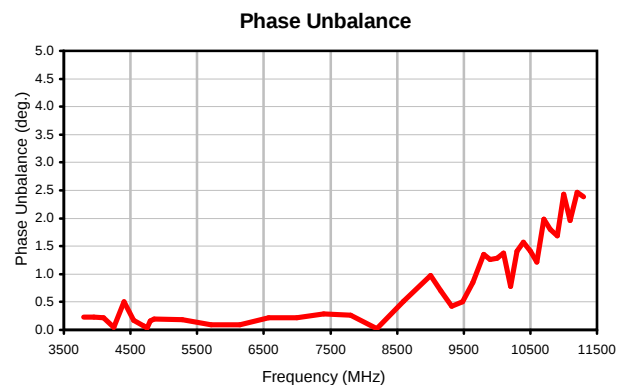
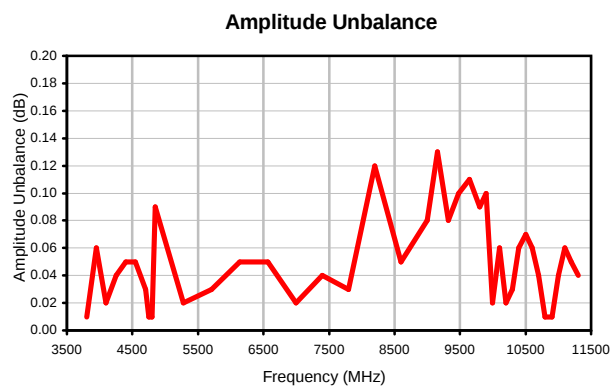
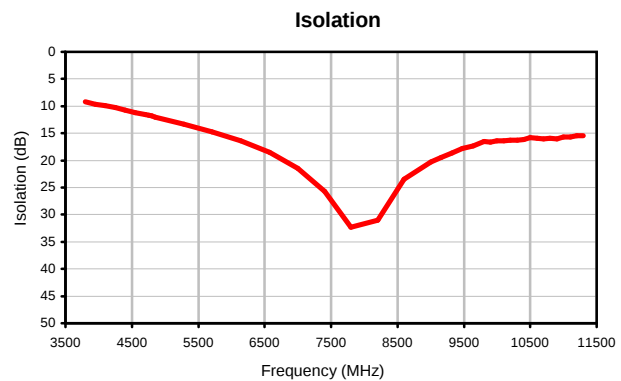
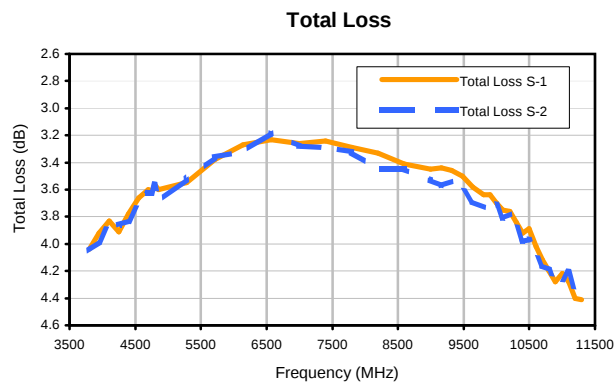
FREQ. (MHz)	TOTAL LOSS ¹ (dB)		AMP. UNBAL. (dB)	ISOLATION (dB)	PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1)		
	S-1	S-2					S	1	2
3800.0	4.04	4.05	0.01	9.21	0.23	3800.0	2.32	1.22	1.21
3950.0	3.92	3.98	0.06	9.63	0.23	3950.0	2.44	1.28	1.27
4100.0	3.83	3.85	0.02	9.94	0.22	4100.0	2.34	1.26	1.25
4250.0	3.91	3.86	0.04	10.27	0.05	4250.0	2.14	1.28	1.26
4400.0	3.78	3.83	0.05	10.78	0.50	4400.0	2.19	1.35	1.33
4550.0	3.66	3.71	0.05	11.17	0.17	4550.0	2.09	1.30	1.28
4700.0	3.60	3.63	0.03	11.55	0.07	4700.0	1.94	1.31	1.29
4750.0	3.62	3.63	0.01	11.68	0.03	4750.0	1.97	1.31	1.28
4800.0	3.56	3.56	0.01	11.85	0.16	4800.0	2.01	1.35	1.33
4850.0	3.60	3.69	0.09	12.02	0.20	4850.0	1.93	1.38	1.35
5280.0	3.55	3.52	0.02	13.31	0.18	5280.0	1.74	1.37	1.34
5710.0	3.38	3.36	0.03	14.69	0.09	5710.0	1.49	1.33	1.31
6140.0	3.27	3.32	0.05	16.37	0.09	6140.0	1.30	1.29	1.25
6570.0	3.23	3.18	0.05	18.46	0.22	6570.0	1.16	1.24	1.20
7000.0	3.26	3.28	0.02	21.45	0.22	7000.0	1.09	1.23	1.19
7400.0	3.24	3.29	0.04	25.70	0.29	7400.0	1.21	1.25	1.20
7800.0	3.29	3.32	0.03	32.30	0.26	7800.0	1.29	1.29	1.26
8200.0	3.33	3.45	0.12	31.01	0.02	8200.0	1.25	1.22	1.23
8600.0	3.41	3.45	0.05	23.48	0.52	8600.0	1.32	1.12	1.18
9000.0	3.45	3.53	0.08	20.33	0.98	9000.0	1.41	1.10	1.17
9160.0	3.44	3.57	0.13	19.49	0.70	9160.0	1.37	1.07	1.17
9320.0	3.46	3.54	0.08	18.64	0.43	9320.0	1.23	1.22	1.33
9480.0	3.50	3.60	0.10	17.81	0.50	9480.0	1.43	1.29	1.31
9640.0	3.58	3.69	0.11	17.38	0.85	9640.0	1.44	1.25	1.28
9800.0	3.64	3.73	0.09	16.51	1.35	9800.0	1.42	1.40	1.39
9900.0	3.64	3.74	0.10	16.61	1.26	9900.0	1.66	1.49	1.49
10000.0	3.70	3.71	0.02	16.35	1.28	10000.0	1.59	1.47	1.45
10100.0	3.75	3.81	0.06	16.42	1.38	10100.0	1.82	1.64	1.58
10200.0	3.76	3.78	0.02	16.27	0.78	10200.0	1.82	1.61	1.60
10300.0	3.84	3.87	0.03	16.27	1.41	10300.0	1.97	1.69	1.52
10400.0	3.92	3.98	0.06	16.11	1.57	10400.0	2.21	1.88	1.83
10500.0	3.89	3.97	0.07	15.80	1.41	10500.0	2.15	1.78	1.65
10600.0	4.02	4.08	0.06	15.89	1.22	10600.0	2.56	2.03	1.88
10700.0	4.12	4.16	0.04	16.05	1.98	10700.0	2.37	1.92	1.80
10800.0	4.20	4.19	0.01	15.97	1.80	10800.0	2.89	2.15	1.94
10900.0	4.28	4.29	0.01	15.98	1.69	10900.0	2.57	2.07	1.83
11000.0	4.22	4.26	0.04	15.66	2.43	11000.0	3.20	2.23	2.07
11100.0	4.28	4.21	0.06	15.65	1.96	11100.0	3.13	2.46	2.17
11200.0	4.40	4.35	0.05	15.47	2.46	11200.0	3.18	2.27	2.08
11300.0	4.41	4.37	0.04	15.42	2.39	11300.0	3.79	2.58	2.32

¹ Total Loss = Insertion Loss + 3dB Splitter Loss

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Typical Performance Curves



REV. X2
ZX10-ED10280/1
100707
Page 1 of 1



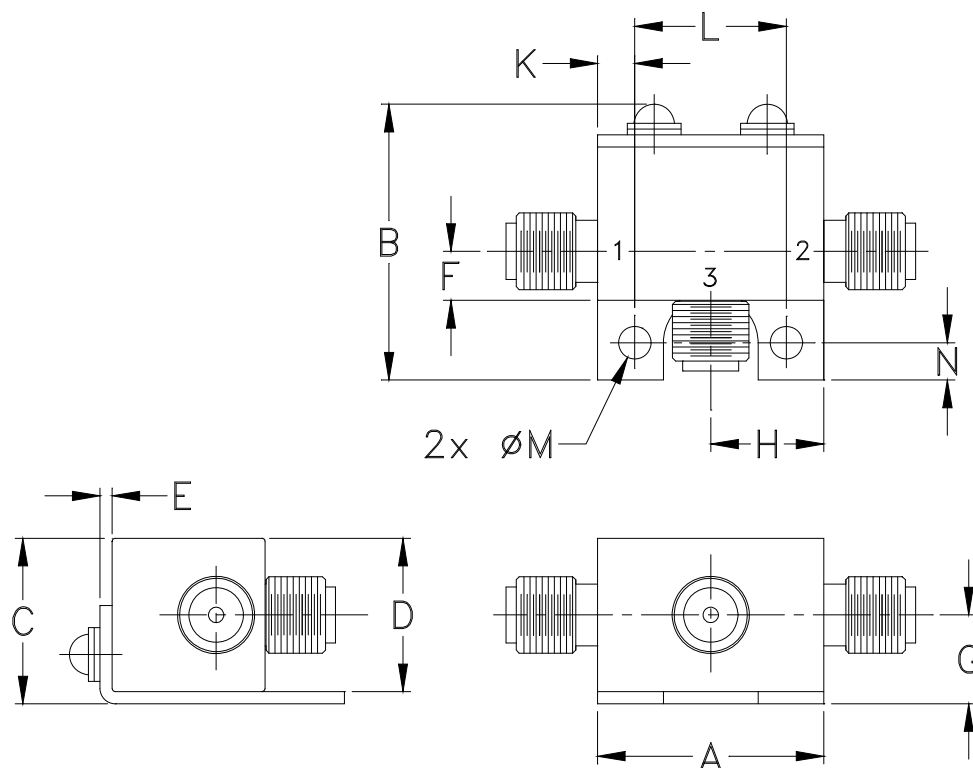
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Outline Dimensions



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:

- Case material: Brass.
- Case finish: Nickel plate.



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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