

4 Way-0° 50Ω

2225 to 2700 MHz

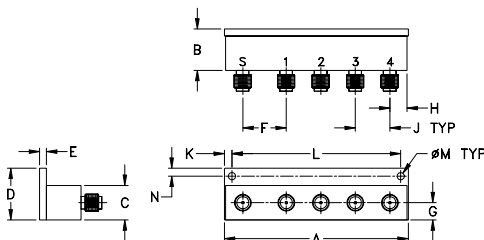
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	2.5W max.
Internal Dissipation	0.125W max.
Permanent damage may occur if any of these limits are exceeded.	

Coaxial Connections

SUM PORT	S
PORT 1	1
PORT 2	2
PORT 3	3
PORT 4	4

Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
2.67	.60	.50	.75	.10	.63	.25	.25
67.82	15.24	12.70	19.05	2.54	16.00	6.35	6.35
J	K	L	M	N	wt.		
.50	.11	2.445	.106	.12	grams		
12.70	2.79	62.10	2.69	3.05	65.0		

Features

- low insertion loss, 1.0 dB typ.
- high isolation, 20 dB typ.
- rigid unibody construction
- convenient for panel mount applications
- low cost
- protected by US patent 6,790,049
- very small size

Applications

- antenna arrays
- signal distribution
- test bench

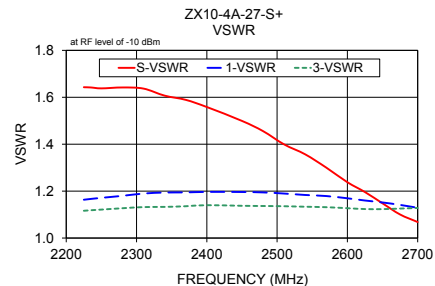
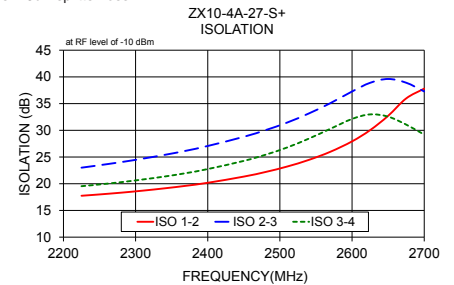
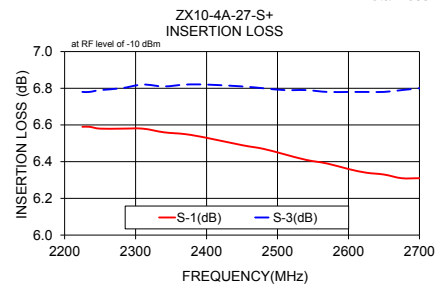
Electrical Specifications (T_{AMB}=25°C)

FREQ. RANGE (MHz)	ISOLATION (dB)	INSERTION LOSS (dB) ABOVE 6 dB	PHASE UNBALANCE (Deg.)	AMPLITUDE UNBALANCE (dB)	INPUT VSWR (:1)	OUTPUT VSWR (:1)
f _L -f _U	Typ. Min.	Typ. Max.	Max.	Max.	Typ.	Typ.
2225-2700	20 16	1.0 1.3	7.0	0.9	1.4	1.25
2400-2600	25 18	0.8 1.3	6.0	0.8	1.4	1.25

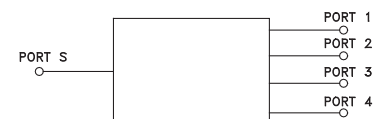
Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)				Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR				
	S-1	S-2	S-3	S-4		1-2	2-3	3-4		S	1	2	3	4
2225.00	6.59	7.05	6.78	6.92	0.46	17.75	23.01	19.54	1.51	1.64	1.16	1.15	1.12	1.20
2235.00	6.59	7.04	6.78	6.92	0.46	17.85	23.19	19.67	1.52	1.64	1.17	1.15	1.12	1.20
2250.00	6.58	7.04	6.79	6.93	0.46	18.00	23.47	19.87	1.54	1.64	1.17	1.15	1.12	1.19
2280.00	6.58	7.05	6.80	6.96	0.46	18.33	24.05	20.30	1.60	1.64	1.18	1.17	1.13	1.22
2310.00	6.58	7.04	6.82	6.98	0.46	18.71	24.70	20.80	1.63	1.64	1.19	1.18	1.13	1.23
2340.00	6.56	7.02	6.81	6.98	0.46	19.14	25.40	21.35	1.65	1.61	1.19	1.18	1.13	1.21
2370.00	6.55	7.01	6.82	6.99	0.46	19.62	26.18	21.99	1.69	1.59	1.19	1.20	1.14	1.24
2400.00	6.53	6.99	6.82	7.00	0.47	20.18	27.07	22.75	1.73	1.56	1.20	1.19	1.14	1.24
2450.00	6.49	6.95	6.81	7.00	0.51	21.34	28.79	24.28	1.78	1.50	1.20	1.21	1.14	1.24
2480.00	6.47	6.91	6.80	7.01	0.54	22.20	30.03	25.43	1.82	1.46	1.19	1.21	1.14	1.26
2510.00	6.44	6.88	6.79	7.00	0.56	23.22	31.45	26.79	1.85	1.40	1.19	1.20	1.14	1.23
2540.00	6.41	6.85	6.79	7.01	0.59	24.46	33.15	28.44	1.89	1.36	1.18	1.22	1.13	1.24
2570.00	6.39	6.81	6.78	7.01	0.62	25.99	35.09	30.29	1.95	1.30	1.18	1.21	1.13	1.25
2600.00	6.36	6.78	6.78	7.01	0.65	27.93	37.27	32.13	2.01	1.24	1.17	1.20	1.13	1.22
2625.00	6.34	6.76	6.78	7.02	0.68	30.03	38.89	32.98	2.06	1.20	1.16	1.20	1.12	1.24
2650.00	6.33	6.73	6.78	7.04	0.71	32.71	39.61	32.56	2.12	1.15	1.15	1.19	1.12	1.26
2675.00	6.31	6.72	6.79	7.05	0.74	35.97	38.91	31.07	2.15	1.10	1.14	1.18	1.13	1.24
2700.00	6.31	6.70	6.80	7.07	0.77	37.81	37.28	29.20	2.17	1.07	1.13	1.19	1.13	1.25

1. Total Loss = Insertion Loss + 6dB splitter loss.



electrical schematic



Notes

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
 B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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4 Way-0° Power Splitter/Combiner

ZX10-4A-27+

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-3	S-4		1-2	2-3	3-4			S	1	2	3	4
2225.0	6.59	7.05	6.78	6.92	0.46	17.75	23.01	19.54	1.51	2225.0	1.64	1.16	1.15	1.12	1.20
2235.0	6.59	7.04	6.78	6.92	0.46	17.85	23.19	19.67	1.52	2235.0	1.64	1.17	1.15	1.12	1.20
2250.0	6.58	7.04	6.79	6.93	0.46	18.00	23.47	19.87	1.54	2250.0	1.64	1.17	1.15	1.12	1.19
2280.0	6.58	7.05	6.80	6.96	0.46	18.33	24.05	20.30	1.60	2280.0	1.64	1.18	1.17	1.13	1.22
2310.0	6.58	7.04	6.82	6.98	0.46	18.71	24.70	20.80	1.63	2310.0	1.64	1.19	1.18	1.13	1.23
2340.0	6.56	7.02	6.81	6.98	0.46	19.14	25.40	21.35	1.65	2340.0	1.61	1.19	1.18	1.13	1.21
2370.0	6.55	7.01	6.82	6.99	0.46	19.62	26.18	21.99	1.69	2370.0	1.59	1.19	1.20	1.14	1.24
2400.0	6.53	6.99	6.82	7.00	0.47	20.18	27.07	22.75	1.73	2400.0	1.56	1.20	1.19	1.14	1.24
2450.0	6.49	6.95	6.81	7.00	0.51	21.34	28.79	24.28	1.78	2450.0	1.50	1.20	1.21	1.14	1.24
2480.0	6.47	6.91	6.80	7.01	0.54	22.20	30.03	25.43	1.82	2480.0	1.46	1.19	1.21	1.14	1.26
2510.0	6.44	6.88	6.79	7.00	0.56	23.22	31.45	26.79	1.85	2510.0	1.40	1.19	1.20	1.14	1.23
2540.0	6.41	6.85	6.79	7.01	0.59	24.46	33.15	28.44	1.89	2540.0	1.36	1.18	1.22	1.13	1.24
2570.0	6.39	6.81	6.78	7.01	0.62	25.99	35.09	30.29	1.95	2570.0	1.30	1.18	1.21	1.13	1.25
2600.0	6.36	6.78	6.78	7.01	0.65	27.93	37.27	32.13	2.01	2600.0	1.24	1.17	1.20	1.13	1.22
2625.0	6.34	6.76	6.78	7.02	0.68	30.03	38.89	32.98	2.06	2625.0	1.20	1.16	1.20	1.12	1.24
2650.0	6.33	6.73	6.78	7.04	0.71	32.71	39.61	32.56	2.12	2650.0	1.15	1.15	1.19	1.12	1.26
2675.0	6.31	6.72	6.79	7.05	0.74	35.97	38.91	31.07	2.15	2675.0	1.10	1.14	1.18	1.13	1.24
2700.0	6.31	6.70	6.80	7.07	0.77	37.81	37.28	29.20	2.17	2700.0	1.07	1.13	1.19	1.13	1.25

¹ Total Loss = Insertion Loss + 6dB Splitter Loss

REV. X2
ZX10-4A-27+
100627
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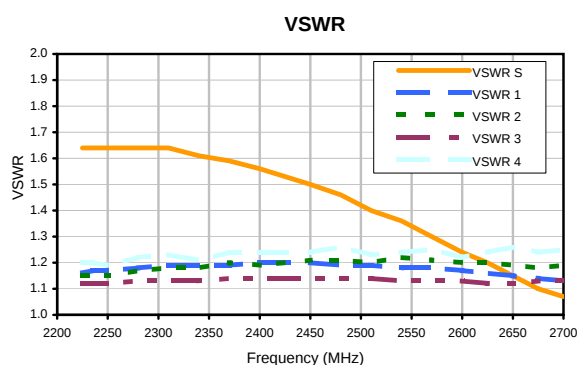
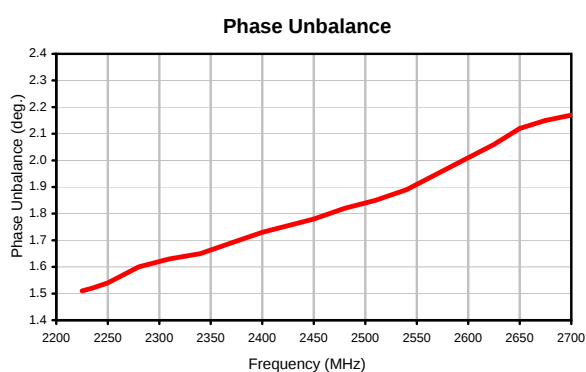
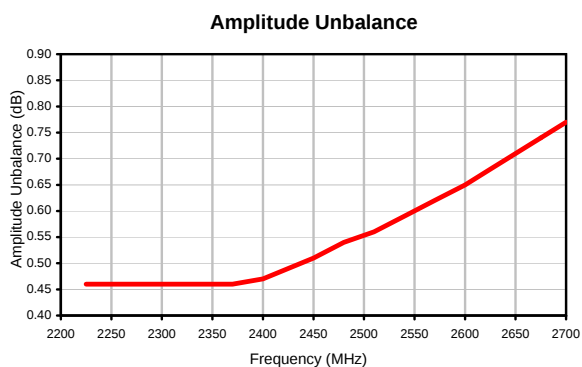
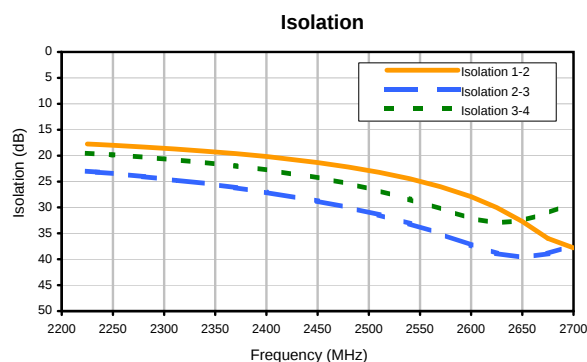
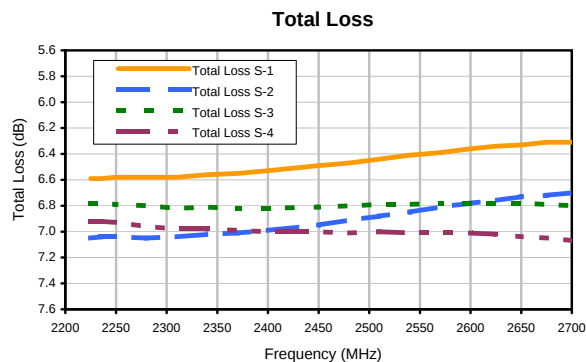
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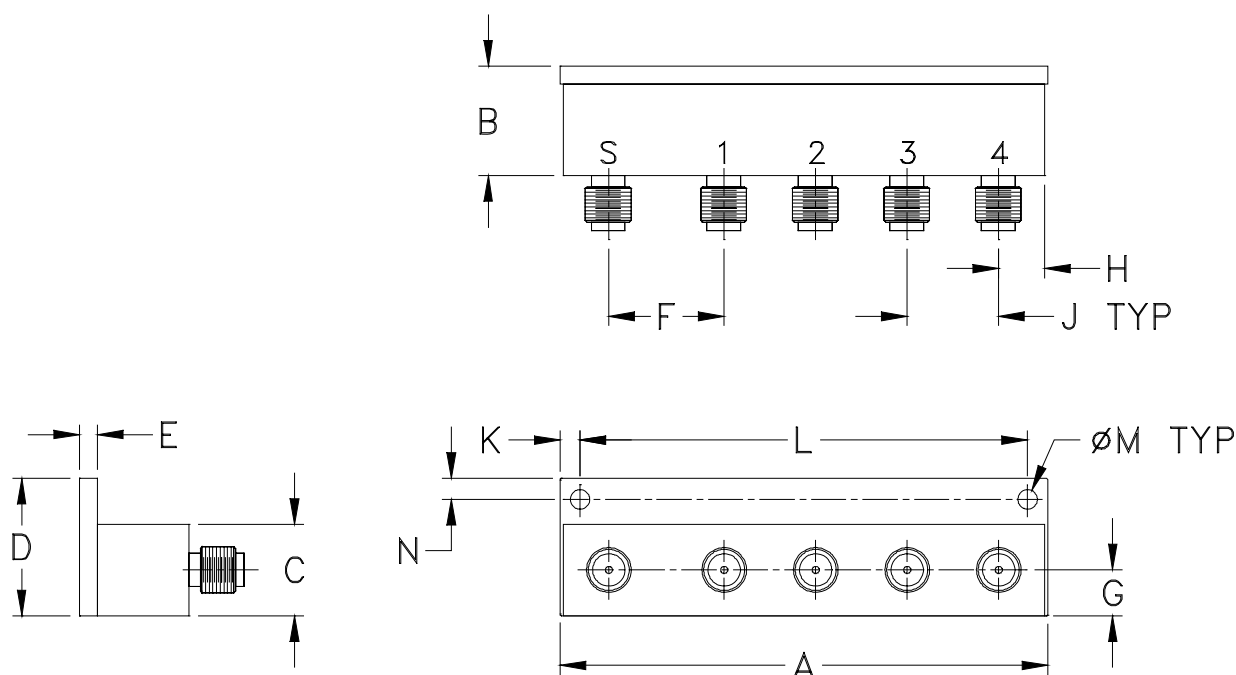
4 Way-0° Power Splitter/Combiner

ZX10-4A-27+

Typical Performance Curves



Outline Dimensions



CASE#	A	B	C	D	E	F	G	H	J	K	L	M	N	WT. GRAM
GY1065	2.67 (67.82)	.60 (15.24)	.50 (12.70)	.75 (19.05)	.10 (2.54)	.63 (16.00)	.25 (6.35)	.25 (6.35)	.50 (12.70)	.11 (2.79)	2.445 (62.10)	.106 (2.69)	.12 (3.05)	65.0

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.



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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	-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