



# 3 Way-0° Power Splitter/Combiner

# ZSC-3-2+

## Typical Performance Data

FREQ. (MHz)	TOTAL LOSS <sup>1</sup> (dB)			AMP. UNBAL. (dB)	ISOLATION (dB)			PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1)			
	S-1	S-2	S-3		1-2	2-3	1-3			S	1	2	3
0.01	5.08	5.05	5.05	0.03	39.98	45.28	45.16	0.66	0.01	2.19	2.06	2.06	2.11
0.02	4.92	4.90	4.91	0.02	45.61	50.79	50.33	0.20	0.02	1.53	1.46	1.46	1.48
0.03	4.88	4.87	4.87	0.01	49.13	54.35	53.54	0.11	0.03	1.35	1.30	1.30	1.31
0.04	4.87	4.86	4.86	0.01	51.55	56.72	55.87	0.07	0.04	1.27	1.23	1.23	1.24
0.05	4.86	4.85	4.85	0.01	53.25	58.54	57.54	0.04	0.05	1.23	1.19	1.19	1.19
0.06	4.86	4.85	4.85	0.01	54.63	59.76	58.82	0.02	0.06	1.20	1.16	1.16	1.17
0.07	4.86	4.85	4.85	0.01	55.65	60.61	59.88	0.01	0.07	1.19	1.14	1.14	1.15
0.08	4.86	4.85	4.85	0.01	56.50	61.15	60.78	0.00	0.08	1.17	1.13	1.13	1.14
0.09	4.86	4.85	4.85	0.01	57.08	61.63	61.22	0.01	0.09	1.17	1.13	1.13	1.13
0.10	4.86	4.85	4.85	0.01	57.61	61.74	61.58	0.01	0.10	1.16	1.12	1.12	1.12
1.00	4.85	4.85	4.85	0.01	53.52	53.82	53.61	0.02	1.00	1.12	1.08	1.08	1.09
1.90	4.86	4.85	4.86	0.01	48.74	48.96	48.74	0.02	1.90	1.12	1.08	1.08	1.08
2.80	4.87	4.86	4.86	0.00	45.79	46.05	45.85	0.03	2.80	1.12	1.07	1.07	1.08
3.70	4.88	4.88	4.88	0.00	43.77	44.01	43.84	0.03	3.70	1.12	1.07	1.07	1.07
4.60	4.89	4.89	4.89	0.00	42.19	42.45	42.31	0.03	4.60	1.12	1.07	1.07	1.07
5.50	4.90	4.90	4.90	0.00	40.94	41.19	41.05	0.04	5.50	1.12	1.06	1.06	1.07
6.40	4.91	4.91	4.91	0.00	39.85	40.14	40.01	0.04	6.40	1.13	1.06	1.06	1.06
7.30	4.92	4.92	4.92	0.00	38.93	39.21	39.10	0.05	7.30	1.13	1.05	1.05	1.06
8.20	4.93	4.92	4.93	0.00	38.13	38.40	38.30	0.06	8.20	1.13	1.05	1.05	1.05
9.10	4.94	4.93	4.94	0.00	37.40	37.69	37.59	0.06	9.10	1.14	1.04	1.04	1.05
10.00	4.94	4.94	4.95	0.00	36.74	37.02	36.94	0.06	10.00	1.14	1.04	1.04	1.05
11.00	4.95	4.95	4.96	0.01	36.08	36.36	36.29	0.07	11.00	1.15	1.03	1.04	1.04
12.00	4.96	4.96	4.97	0.01	35.48	35.76	35.70	0.09	12.00	1.15	1.03	1.03	1.04
13.00	4.97	4.97	4.98	0.01	34.93	35.21	35.17	0.09	13.00	1.16	1.02	1.03	1.04
14.00	4.98	4.98	4.99	0.01	34.43	34.71	34.68	0.10	14.00	1.17	1.02	1.03	1.04
15.00	4.98	4.99	5.00	0.01	33.96	34.24	34.22	0.11	15.00	1.17	1.02	1.03	1.04
16.00	4.99	5.00	5.00	0.01	33.52	33.80	33.81	0.12	16.00	1.18	1.03	1.04	1.04
17.00	5.00	5.01	5.02	0.02	33.12	33.40	33.40	0.13	17.00	1.19	1.03	1.04	1.05
18.00	5.01	5.01	5.03	0.02	32.75	33.02	33.05	0.14	18.00	1.19	1.04	1.05	1.05
19.00	5.01	5.02	5.04	0.02	32.40	32.67	32.70	0.15	19.00	1.20	1.05	1.05	1.06
20.00	5.02	5.03	5.05	0.03	32.07	32.32	32.38	0.16	20.00	1.21	1.06	1.06	1.07
21.00	5.03	5.04	5.06	0.03	31.75	32.00	32.08	0.17	21.00	1.22	1.07	1.07	1.08
22.00	5.04	5.05	5.07	0.03	31.46	31.70	31.79	0.18	22.00	1.23	1.08	1.08	1.09
23.00	5.05	5.06	5.08	0.03	31.17	31.41	31.53	0.19	23.00	1.24	1.09	1.09	1.10
24.00	5.05	5.07	5.09	0.04	30.90	31.14	31.27	0.21	24.00	1.25	1.10	1.11	1.11
25.00	5.06	5.08	5.10	0.04	30.64	30.87	31.02	0.22	25.00	1.26	1.11	1.12	1.12
26.00	5.07	5.09	5.12	0.05	30.40	30.62	30.79	0.24	26.00	1.28	1.12	1.13	1.13
27.00	5.08	5.10	5.13	0.05	30.16	30.36	30.57	0.24	27.00	1.29	1.13	1.14	1.14
28.00	5.09	5.12	5.14	0.05	29.93	30.13	30.34	0.25	28.00	1.31	1.15	1.15	1.16
29.00	5.10	5.13	5.16	0.06	29.70	29.88	30.13	0.26	29.00	1.33	1.16	1.17	1.17
30.00	5.11	5.14	5.17	0.06	29.48	29.65	29.91	0.27	30.00	1.34	1.18	1.18	1.18

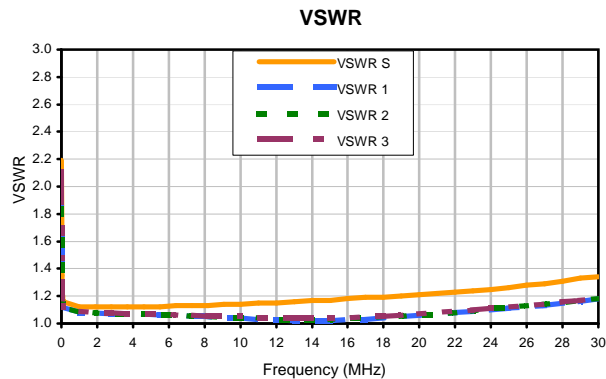
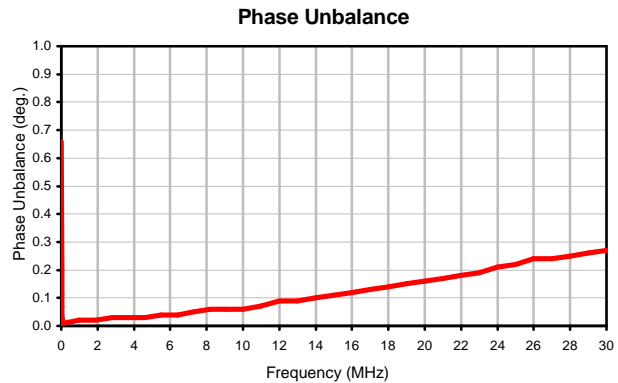
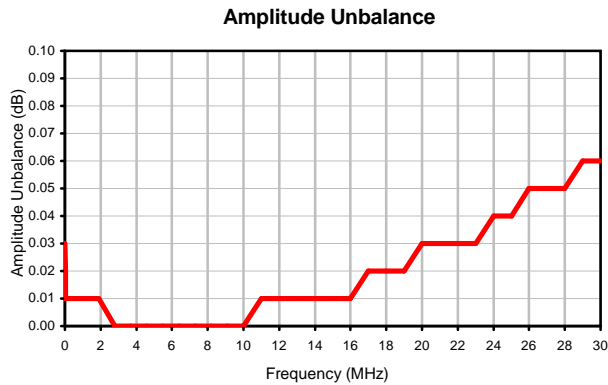
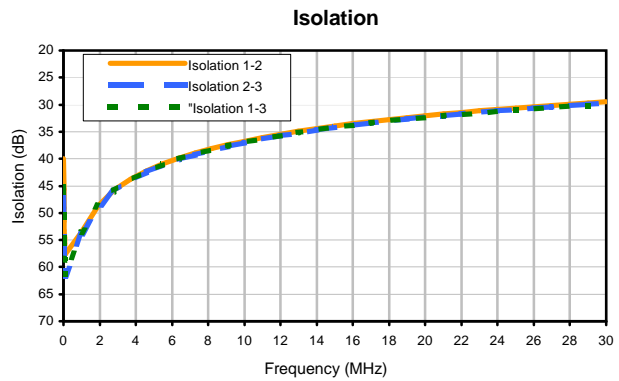
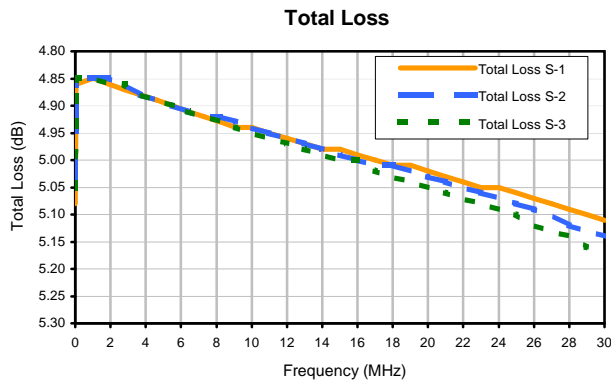
<sup>1</sup> Total Loss = Insertion Loss + 4.8dB Splitter Loss



# 3 Way-0° Power Splitter/Combiner

# ZSC-3-2+

## Typical Performance Curves



REV. X2  
ZSC-3-2+  
100713  
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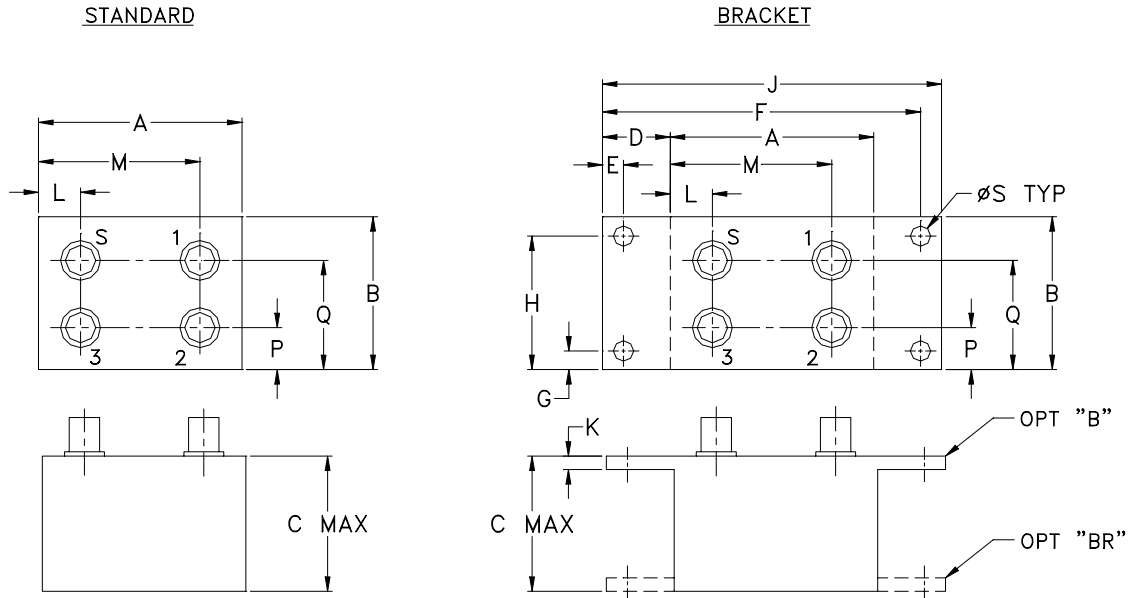


# Case Style

P

P25  
P26

## Outline Dimensions



CASE#	A	B	C	D	E	F	G	H	J	K	L	M	N
P25	2.25	1.38	1.24	.50	.150	3.100	.138	1.238	3.25	.10	.78	1.47	--
	(57.15)	(35.05)	(31.50)		(3.81)	(78.74)		(31.45)	(82.55)		(19.81)	(37.34)	--
P26	1.50	1.13	1.00	(12.70)	.155	2.345	(3.51)	.987	2.50	(2.54)	.50	1.00	--
	(38.10)	(28.70)	(25.40)		(3.94)	(59.56)		(25.07)	(63.50)		(12.70)	(25.40)	--

CASE#	P	Q	R	S	WT. GRAMS
P25	.38	1.00	--	.150	110.0
	(9.65)	(25.40)	--		
P26	.31	.81	--	(3.81)	60.0
	(7.87)	(20.57)	--		

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

### Notes:

- Case material: Aluminum alloy.
- Case finish:
  - For RoHS Case Styles: Clear chemical conversion coating, non-chrome or trivalent chrome based.
  - For Non-RoHS Case Styles: Yellow hexavalent chrome based conversion coating.

Due to transition from non-RoHS to RoHS, models will be supplied with either case style finish until the non-RoHS case inventory is depleted.
- Mounting bracket available on request. For bracket mounted on connector end add suffix B to part number and add \$5.00 to unit cost. For bracket mounted on the rear, add suffix BR to part number and add \$1.50 to unit cost.



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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.

<b>Specification</b>	<b>Test/Inspection Condition</b>	<b>Reference/Spec</b>
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