

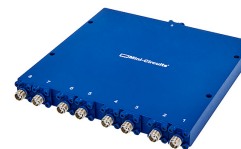
# DC Pass, High Power Power Splitter/Combiner

ZC8PD-01263-S+

8 Way-0° 50Ω 1000 to 26500 MHz

## The Big Deal

- Ultra wideband, 1 to 26.5 GHz
- Low insertion loss, 3.2 dB typ.
- High Isolation, 26 dB typ.
- Low amplitude unbalance, 0.14 dB typ.
- 20W power handling



CASE STYLE: UU2415-2

## Product Overview

Mini-Circuits' ZC8PD-01263-S+ is an ultra wideband 8-way 0° splitter/combiner providing coverage from 1 to 26.5 GHz, supporting a wide range of applications including 5G, L-Band, S-band, X-band, Ku-Band, K-Band, instrumentation and many more. This model provides 20W power handling as a splitter and very low insertion loss across the entire operating frequency range, minimizing power dissipation and delivering excellent signal power transmission from input to output. The ZC8PD-01263-S+ comes housed in a case measuring 4.64 x 4.33 x 0.5" with super SMA connectors.

## Key Features

Feature	Advantages
Ultra-wideband, 1 to 26.5 GHz	Extremely wide frequency range supports many broadband applications in a single model.
High isolation, 26 dB typ.	Minimizes interference between ports.
High power handling: <ul style="list-style-type: none"><li>• 20W as a splitter at 25°C</li><li>• 4.7W as a combiner</li></ul>	The ZC8PD-01263-S+ is suitable for systems with a wide range of power requirements.
Low amplitude unbalance, 0.14 dB	Produces nearly equal output signals, ideal for parallel path and multichannel systems.
DC Passing, 447mA	Supports applications where DC power is needed through the RF line.

### 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.  
C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at [www.minicircuits.com/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp)



# DC Pass, High Power Power Splitter/Combiner

8 Way-0° 50Ω 1000 to 26500 MHz

ZC8PD-01263-S+

## Maximum Ratings

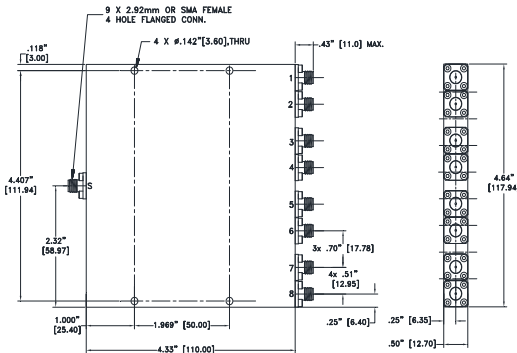
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	20W* max.
Internal Dissipation	4.7W max.
DC Current	447mA

Permanent damage may occur if any of these limits are exceeded.  
\* Derate linearly to 10W at 100°C

## Coaxial Connections

Sum Port	S
Port 1,2,3,4,5,6,7,8	1,2,3,4,5,6,7,8

## Outline Drawing



Weight: 500 Grams  
Dimensions are in inches [mm]. Tolerances: 2 PL ±.03; 3 PL ±.015

## Electrical Schematic



## Features

- Ultra wideband, 1000 - 26500 MHz
- Low amplitude unbalance, 0.14 dB typ.
- Excellent VSWR, 1.33:1 typ.
- High isolation, 26 dB typ.

## Applications

- Fixed satellite
- 5G
- Mobile
- Space research



Generic photo used for illustration purposes only

CASE STYLE: UU2415-2

Connectors	Model
SMA-Fem	ZC8PD-01263-S+

**+RoHS Compliant**  
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

## Electrical Specifications at 25°C

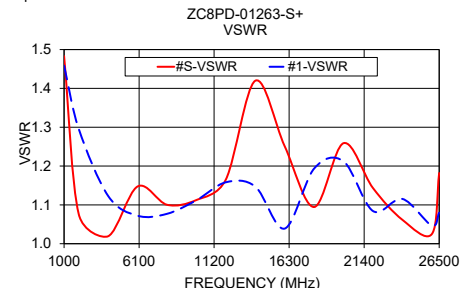
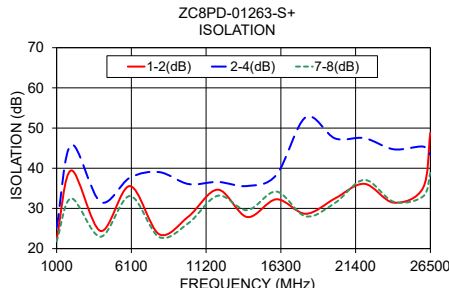
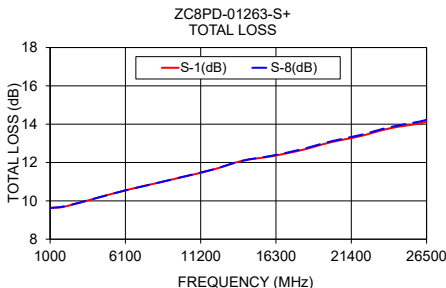
Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		1000		26500	MHz
Insertion Loss Above 9.0 dB	1000-8000		1.6	2.7	
	8000-18000		3.2	4.5	dB
	18000-26500		4.7	5.8	
Isolation	1000-8000	16	21		
	8000-18000	18	26		dB
	18000-26500	18	29		
Phase Unbalance (±) <sup>1</sup>	1000-8000		1.4	4	
	8000-18000		2.9	9	Degree
	18000-26500		4.4	12	
Amplitude Unbalance (±) <sup>1</sup>	1000-8000		0.11	0.4	
	8000-18000		0.14	0.5	dB
	18000-26500		0.22	0.6	
VSWR (Port S)	1000-8000		1.36	1.6	
	8000-18000		1.33	1.6	:1
	18000-26500		1.25	1.6	
VSWR (Port 1-8)	1000-8000		1.28	1.5	
	8000-18000		1.22	1.5	:1
	18000-26500		1.23	1.6	

1. With reference to average

## Typical Performance Data

Freq. (MHz)	Total Loss <sup>1</sup> (dB)						Amp. Unbal. (dB)	Isolation (dB)				Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 8
	S-1	S-2	S-3	S-4	S-6	S-8		1-2	2-4	5-7	7-8				
1000	9.63	9.66	9.64	9.62	9.63	9.63	0.04	22.33	25.17	25.17	21.81	0.11	1.48	1.46	1.47
2000	9.70	9.73	9.71	9.68	9.73	9.72	0.05	39.45	45.83	55.51	32.49	0.29	1.08	1.30	1.32
4000	10.12	10.12	10.14	10.11	10.13	10.12	0.04	24.39	31.60	31.22	22.96	0.48	1.02	1.12	1.14
6000	10.53	10.53	10.56	10.53	10.53	10.53	0.03	35.56	37.65	36.56	33.08	0.66	1.15	1.07	1.07
8000	10.89	10.90	10.93	10.88	10.90	10.89	0.05	23.58	39.04	40.28	22.87	0.85	1.10	1.08	1.09
10000	11.25	11.24	11.31	11.26	11.25	11.26	0.08	28.00	36.07	38.16	26.35	0.90	1.11	1.11	1.09
12000	11.62	11.61	11.70	11.64	11.62	11.63	0.10	34.67	36.59	36.60	33.16	1.12	1.17	1.16	1.18
14000	12.09	12.07	12.19	12.12	12.07	12.09	0.12	27.86	35.58	34.05	29.56	1.28	1.42	1.15	1.10
16000	12.33	12.33	12.43	12.36	12.33	12.35	0.10	32.27	38.36	39.77	34.19	1.42	1.25	1.04	1.02
18000	12.64	12.66	12.76	12.67	12.66	12.69	0.11	28.67	52.70	45.17	28.03	1.53	1.09	1.19	1.25
20000	13.06	13.06	13.17	13.08	13.06	13.10	0.12	32.49	47.41	44.03	31.38	1.64	1.26	1.21	1.23
22000	13.38	13.37	13.51	13.40	13.38	13.43	0.13	36.12	47.49	50.53	37.10	1.80	1.14	1.08	1.09
24000	13.78	13.80	13.94	13.84	13.74	13.84	0.20	31.44	44.71	45.19	31.66	2.02	1.06	1.12	1.12
26000	14.03	14.06	14.21	14.12	14.02	14.13	0.19	35.11	45.39	43.54	32.98	2.28	1.02	1.05	1.08
26500	14.13	14.14	14.33	14.26	14.17	14.24	0.19	48.86	43.28	40.84	38.84	2.03	1.18	1.08	1.07

1. Total Loss = Insertion Loss + 9dB splitter loss.



## Notes

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ZC8PD-01263-S+  
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Page 2 of 2

# 8 Way-0° Power Splitter/Combiner

# ZC8PD-01263-S+

## Typical Performance Data

Data tested at 25DegC

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	S-4	S-6	S-8		1-2	2-4	5-7	7-8			S	1	8
100	10.70	10.73	10.76	10.74	10.72	10.72	0.06	2.48	11.08	11.11	2.48	0.18	100	3.36	1.90	1.90
500	11.48	11.50	11.49	11.48	11.52	11.51	0.05	11.41	17.06	16.99	11.31	0.27	500	4.19	2.14	2.17
1000	9.63	9.66	9.64	9.62	9.63	9.63	0.04	22.33	25.17	25.17	21.81	0.11	1000	1.48	1.46	1.47
1500	9.59	9.60	9.60	9.58	9.60	9.60	0.04	24.49	37.43	37.09	23.16	0.17	1500	1.10	1.16	1.17
2000	9.70	9.73	9.71	9.68	9.73	9.72	0.05	39.45	45.83	55.51	32.49	0.29	2000	1.08	1.30	1.32
2500	9.84	9.86	9.85	9.83	9.86	9.85	0.05	29.58	30.85	30.63	28.46	0.30	2500	1.20	1.15	1.17
3000	9.92	9.94	9.94	9.91	9.92	9.92	0.03	35.97	29.24	28.34	32.47	0.36	3000	1.04	1.09	1.11
3500	10.03	10.03	10.03	10.00	10.02	10.03	0.04	26.50	30.89	30.41	26.23	0.41	3500	1.08	1.14	1.14
4000	10.12	10.12	10.14	10.11	10.13	10.12	0.04	24.39	31.60	31.22	22.96	0.48	4000	1.02	1.12	1.14
4500	10.23	10.24	10.24	10.21	10.21	10.21	0.04	33.85	30.79	30.62	29.36	0.51	4500	1.04	1.13	1.17
5000	10.34	10.33	10.36	10.32	10.32	10.32	0.04	29.14	28.67	28.57	27.89	0.54	5000	1.11	1.09	1.08
5500	10.41	10.43	10.45	10.41	10.41	10.41	0.04	29.19	31.76	31.05	26.76	0.60	5500	1.06	1.04	1.07
6000	10.53	10.53	10.56	10.53	10.53	10.53	0.03	35.56	37.65	36.56	33.08	0.66	6000	1.15	1.07	1.07
6500	10.61	10.62	10.64	10.60	10.60	10.61	0.04	36.75	37.19	40.28	35.48	0.64	6500	1.06	1.08	1.09
7000	10.71	10.71	10.75	10.71	10.71	10.71	0.04	32.00	35.81	36.45	36.73	0.72	7000	1.12	1.05	1.03
7500	10.79	10.80	10.83	10.79	10.77	10.78	0.06	23.50	39.09	42.46	23.40	0.66	7500	1.06	1.07	1.08
8000	10.89	10.90	10.93	10.88	10.90	10.89	0.05	23.58	39.04	40.28	22.87	0.85	8000	1.10	1.08	1.09
8500	10.97	10.96	11.00	10.97	10.95	10.96	0.06	30.31	39.46	40.49	28.42	0.90	8500	1.07	1.03	1.03
9000	11.06	11.05	11.12	11.06	11.05	11.06	0.06	37.35	38.55	38.84	35.53	0.87	9000	1.05	1.04	1.06
9500	11.15	11.14	11.20	11.14	11.13	11.15	0.07	29.62	32.86	33.70	28.77	1.05	9500	1.01	1.08	1.06
10000	11.25	11.24	11.31	11.26	11.25	11.26	0.08	28.00	36.07	38.16	26.35	0.90	10000	1.11	1.11	1.09
11000	11.41	11.40	11.48	11.43	11.40	11.42	0.08	44.89	47.65	48.85	40.06	1.02	11000	1.07	1.06	1.09
12000	11.62	11.61	11.70	11.64	11.62	11.63	0.10	34.67	36.59	36.60	33.16	1.12	12000	1.17	1.16	1.18
13000	11.88	11.87	11.98	11.92	11.86	11.90	0.12	32.06	41.57	41.13	27.95	1.19	13000	1.36	1.17	1.18
14000	12.09	12.07	12.19	12.12	12.07	12.09	0.12	27.86	35.58	34.05	29.56	1.28	14000	1.42	1.15	1.10
15000	12.16	12.17	12.27	12.19	12.16	12.19	0.11	33.75	31.56	32.33	34.77	1.35	15000	1.28	1.01	1.04
16000	12.33	12.33	12.43	12.36	12.33	12.35	0.10	32.27	38.36	39.77	34.19	1.42	16000	1.25	1.04	1.02
17000	12.49	12.49	12.60	12.51	12.49	12.52	0.11	41.40	37.09	38.20	34.24	1.44	17000	1.20	1.09	1.12
18000	12.64	12.66	12.76	12.67	12.66	12.69	0.11	28.67	52.70	45.17	28.03	1.53	18000	1.09	1.19	1.25
19000	12.84	12.86	12.97	12.89	12.85	12.89	0.13	32.42	43.16	44.43	34.92	1.51	19000	1.19	1.17	1.21
20000	13.06	13.06	13.17	13.08	13.06	13.10	0.12	32.49	47.41	44.03	31.38	1.64	20000	1.26	1.21	1.23
21000	13.24	13.24	13.37	13.28	13.22	13.27	0.15	33.26	37.23	36.27	33.27	1.62	21000	1.23	1.16	1.17
22000	13.38	13.37	13.51	13.40	13.38	13.43	0.13	36.12	47.49	50.53	37.10	1.80	22000	1.14	1.08	1.09
23000	13.56	13.58	13.72	13.62	13.54	13.60	0.18	27.57	44.18	44.40	26.99	2.12	23000	1.06	1.06	1.08
24000	13.78	13.80	13.94	13.84	13.74	13.84	0.20	31.44	44.71	45.19	31.66	2.02	24000	1.06	1.12	1.12
25000	13.91	13.93	14.06	13.97	13.90	14.01	0.16	38.62	43.76	49.18	36.46	2.29	25000	1.05	1.06	1.06
26000	14.03	14.06	14.21	14.12	14.02	14.13	0.19	35.11	45.39	43.54	32.98	2.28	26000	1.02	1.05	1.08
26500	14.13	14.14	14.33	14.26	14.17	14.24	0.19	48.86	43.28	40.84	38.84	2.03	26500	1.18	1.08	1.07
27000	14.20	14.22	14.38	14.29	14.22	14.30	0.17	34.38	40.61	39.69	38.76	2.33	27000	1.07	1.05	1.04
27500	14.32	14.33	14.48	14.39	14.31	14.38	0.17	39.87	39.13	40.03	36.95	2.27	27500	1.08	1.10	1.05
28000	14.43	14.48	14.59	14.51	14.41	14.53	0.18	54.38	51.34	50.23	36.79	2.14	28000	1.15	1.12	1.13

<sup>1</sup>Total Loss = Insertion Loss + 9dB Splitter Loss



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IF/RF MICROWAVE COMPONENTS

REV. OR

ZC8PD-01263-S+

6/5/2019

Page 1 of 3

# 8 Way-0° Power Splitter/Combiner

# ZC8PD-01263-S+

## Typical Performance Data

Data tested at -55DegC

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	S-4	S-6	S-8		1-2	2-4	5-7	7-8			S	1	8
100	10.75	10.73	10.77	10.72	10.73	10.77	0.05	2.52	11.00	11.05	2.50	0.21	100	3.32	1.89	1.89
500	11.51	11.51	11.51	11.50	11.53	11.54	0.04	11.34	17.02	16.95	11.20	0.13	500	4.20	2.10	2.13
1000	9.67	9.67	9.66	9.64	9.64	9.69	0.05	21.89	25.00	25.00	21.50	0.39	1000	1.49	1.43	1.46
1500	9.62	9.61	9.62	9.59	9.59	9.63	0.04	25.14	35.66	35.51	23.68	0.43	1500	1.09	1.18	1.17
2000	9.73	9.72	9.72	9.69	9.72	9.77	0.08	40.07	46.87	60.89	32.88	0.54	2000	1.09	1.28	1.30
2500	9.87	9.86	9.86	9.84	9.85	9.90	0.06	30.57	31.28	31.09	29.40	0.86	2500	1.18	1.15	1.16
3000	9.94	9.93	9.94	9.90	9.91	9.95	0.05	36.15	29.41	28.59	33.36	0.84	3000	1.05	1.09	1.10
3500	10.04	10.02	10.03	10.00	10.00	10.06	0.06	25.85	30.31	29.86	25.74	0.97	3500	1.06	1.13	1.13
4000	10.12	10.10	10.12	10.10	10.11	10.14	0.04	23.49	30.60	30.21	22.25	1.15	4000	1.06	1.11	1.12
4500	10.22	10.22	10.23	10.20	10.19	10.22	0.04	33.72	30.81	30.90	29.75	1.27	4500	1.07	1.12	1.15
5000	10.32	10.30	10.34	10.30	10.29	10.31	0.04	28.41	29.03	29.14	27.97	1.38	5000	1.12	1.10	1.09
5500	10.39	10.39	10.43	10.39	10.39	10.41	0.04	29.50	30.95	30.22	27.42	1.38	5500	1.10	1.04	1.07
6000	10.48	10.47	10.53	10.50	10.48	10.51	0.05	38.52	38.92	38.05	35.36	1.49	6000	1.14	1.08	1.07
6500	10.56	10.56	10.60	10.57	10.56	10.58	0.05	36.75	36.19	39.26	34.79	1.64	6500	1.09	1.09	1.09
7000	10.65	10.65	10.72	10.67	10.67	10.68	0.07	32.18	36.63	37.54	39.39	1.80	7000	1.12	1.06	1.04
7500	10.74	10.73	10.82	10.75	10.74	10.75	0.09	23.92	44.06	47.49	24.19	1.78	7500	1.09	1.12	1.12
8000	10.82	10.82	10.88	10.83	10.85	10.84	0.07	23.82	41.60	42.56	23.13	1.83	8000	1.10	1.11	1.11
8500	10.90	10.90	10.95	10.91	10.89	10.91	0.06	31.46	39.70	41.48	29.33	2.10	8500	1.10	1.04	1.04
9000	10.98	10.97	11.05	11.00	10.98	11.00	0.08	34.53	40.45	42.74	36.31	2.14	9000	1.07	1.06	1.08
9500	11.05	11.05	11.12	11.08	11.06	11.08	0.07	29.47	35.55	35.93	29.34	2.25	9500	1.02	1.07	1.06
10000	11.15	11.15	11.23	11.19	11.16	11.18	0.08	29.00	36.19	38.26	27.43	2.33	10000	1.09	1.13	1.11
11000	11.30	11.29	11.39	11.35	11.31	11.33	0.09	44.08	48.25	43.82	39.66	2.47	11000	1.09	1.06	1.10
12000	11.51	11.51	11.62	11.58	11.54	11.56	0.11	38.76	33.88	33.93	35.62	2.56	12000	1.24	1.16	1.19
13000	11.71	11.72	11.83	11.78	11.73	11.77	0.12	32.87	42.74	41.65	28.78	2.81	13000	1.30	1.14	1.15
14000	11.86	11.87	11.99	11.91	11.88	11.91	0.13	34.86	36.30	35.09	40.49	3.12	14000	1.26	1.10	1.06
15000	11.98	12.00	12.12	12.04	12.01	12.03	0.14	36.76	33.51	34.47	46.65	3.20	15000	1.24	1.02	1.05
16000	12.14	12.18	12.28	12.21	12.19	12.21	0.14	38.44	37.52	38.74	40.42	3.42	16000	1.23	1.04	1.04
17000	12.29	12.35	12.46	12.37	12.35	12.37	0.16	36.57	35.05	36.80	31.04	3.75	17000	1.16	1.12	1.14
18000	12.51	12.58	12.69	12.61	12.59	12.61	0.18	27.20	41.51	39.32	26.73	3.97	18000	1.28	1.21	1.26
19000	12.73	12.75	12.90	12.80	12.77	12.82	0.17	31.18	42.47	41.56	33.33	4.15	19000	1.31	1.22	1.26
20000	12.86	12.89	13.03	12.93	12.93	12.97	0.17	32.07	47.03	44.01	31.40	4.26	20000	1.18	1.21	1.22
21000	13.03	13.07	13.20	13.13	13.04	13.13	0.17	34.35	40.97	39.25	34.76	4.41	21000	1.14	1.15	1.17
22000	13.20	13.22	13.38	13.28	13.25	13.31	0.18	35.03	47.26	51.29	37.46	4.98	22000	1.10	1.10	1.09
23000	13.39	13.41	13.60	13.50	13.39	13.50	0.21	28.92	40.93	41.15	27.93	4.72	23000	1.05	1.08	1.10
24000	13.57	13.60	13.77	13.66	13.56	13.72	0.20	29.89	43.89	45.11	29.84	4.96	24000	1.09	1.10	1.11
25000	13.72	13.74	13.88	13.78	13.73	13.85	0.16	33.24	43.68	47.84	31.19	5.21	25000	1.07	1.05	1.05
26000	13.85	13.88	14.04	13.93	13.86	13.97	0.19	36.53	48.59	45.47	35.84	5.44	26000	1.07	1.09	1.10
26500	13.92	13.94	14.12	14.06	13.96	14.05	0.21	44.27	44.80	42.33	37.43	5.66	26500	1.11	1.10	1.09
27000	14.01	14.03	14.18	14.10	14.02	14.12	0.17	32.64	41.37	39.77	33.66	5.48	27000	1.08	1.08	1.03
27500	14.10	14.11	14.26	14.20	14.10	14.21	0.16	39.05	42.81	43.53	37.94	5.65	27500	1.07	1.13	1.07
28000	14.15	14.21	14.35	14.27	14.19	14.31	0.20	36.51	45.56	44.60	36.55	6.27	28000	1.08	1.08	1.09

<sup>1</sup>Total Loss = Insertion Loss + 9dB Splitter Loss



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6/5/2019

Page 2 of 3

# 8 Way-0° Power Splitter/Combiner

# ZC8PD-01263-S+

## Typical Performance Data

Data tested at 100DegC

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	S-4	S-6	S-8		1-2	2-4	5-7	7-8			S	1	8
100	10.70	10.71	10.79	10.75	10.72	10.71	0.09	2.46	11.09	11.14	2.47	0.14	100	3.36	1.91	1.90
500	11.49	11.51	11.49	11.49	11.52	11.51	0.05	11.59	17.20	17.08	11.41	0.27	500	4.18	2.27	2.26
1000	9.66	9.68	9.67	9.64	9.66	9.65	0.04	22.06	26.08	25.85	21.51	0.27	1000	1.48	1.41	1.44
1500	9.63	9.64	9.63	9.61	9.63	9.62	0.05	23.25	39.61	38.85	22.35	0.44	1500	1.12	1.16	1.16
2000	9.75	9.77	9.76	9.72	9.76	9.75	0.06	34.06	43.12	51.69	30.74	0.49	2000	1.07	1.32	1.34
2500	9.91	9.91	9.90	9.87	9.90	9.89	0.05	27.92	30.88	31.04	27.31	0.68	2500	1.21	1.16	1.18
3000	9.99	9.99	9.99	9.95	9.98	9.96	0.04	34.84	28.84	28.22	32.44	0.87	3000	1.04	1.11	1.12
3500	10.10	10.10	10.09	10.06	10.07	10.07	0.04	26.95	30.08	29.74	26.79	1.06	3500	1.10	1.15	1.16
4000	10.19	10.19	10.21	10.16	10.19	10.17	0.05	24.41	30.85	30.51	22.99	1.22	4000	1.02	1.14	1.15
4500	10.31	10.31	10.31	10.26	10.28	10.26	0.05	33.30	30.95	30.83	29.23	1.32	4500	1.03	1.15	1.18
5000	10.42	10.41	10.44	10.39	10.39	10.37	0.07	28.78	29.14	29.07	27.61	1.42	5000	1.11	1.09	1.08
5500	10.50	10.51	10.53	10.48	10.50	10.48	0.05	28.66	31.26	30.37	26.39	1.73	5500	1.06	1.05	1.07
6000	10.62	10.62	10.65	10.60	10.61	10.59	0.05	33.23	40.12	38.54	30.90	1.87	6000	1.14	1.06	1.06
6500	10.71	10.71	10.73	10.68	10.69	10.68	0.05	38.25	36.18	39.39	34.87	1.98	6500	1.08	1.08	1.09
7000	10.81	10.80	10.85	10.79	10.79	10.78	0.07	31.70	35.84	36.94	34.78	2.17	7000	1.12	1.04	1.04
7500	10.89	10.89	10.93	10.88	10.87	10.87	0.07	23.43	38.54	41.40	23.48	2.27	7500	1.06	1.05	1.06
8000	11.00	11.00	11.04	10.97	10.99	10.97	0.07	23.55	36.95	37.94	22.76	2.49	8000	1.09	1.06	1.08
8500	11.08	11.07	11.12	11.06	11.05	11.05	0.07	29.29	40.78	41.79	27.55	2.65	8500	1.05	1.02	1.03
9000	11.18	11.17	11.23	11.17	11.16	11.15	0.08	36.59	39.02	40.26	34.90	2.76	9000	1.04	1.03	1.05
9500	11.27	11.27	11.32	11.25	11.25	11.25	0.08	29.91	33.00	33.57	29.17	3.02	9500	1.01	1.08	1.06
10000	11.38	11.36	11.44	11.38	11.36	11.36	0.08	27.52	35.28	37.03	25.78	3.07	10000	1.10	1.10	1.08
11000	11.55	11.54	11.62	11.55	11.53	11.53	0.09	40.05	47.61	45.61	38.61	3.47	11000	1.07	1.06	1.09
12000	11.77	11.75	11.85	11.77	11.76	11.76	0.10	34.28	36.44	36.37	32.64	3.77	12000	1.13	1.15	1.17
13000	12.03	12.03	12.14	12.06	12.01	12.03	0.13	31.02	40.78	40.05	27.46	4.06	13000	1.35	1.17	1.19
14000	12.28	12.26	12.38	12.29	12.25	12.25	0.13	26.94	36.11	34.59	28.56	4.28	14000	1.44	1.15	1.11
15000	12.37	12.37	12.48	12.37	12.36	12.36	0.13	32.89	31.54	32.45	33.92	4.65	15000	1.33	1.02	1.04
16000	12.52	12.53	12.63	12.53	12.52	12.52	0.11	31.09	40.17	41.52	32.95	4.92	16000	1.25	1.03	1.01
17000	12.69	12.70	12.81	12.69	12.69	12.69	0.12	40.44	39.17	40.22	34.60	5.15	17000	1.22	1.09	1.12
18000	12.86	12.88	12.99	12.87	12.87	12.88	0.12	29.48	55.32	49.71	28.80	5.47	18000	1.14	1.21	1.26
19000	13.05	13.07	13.19	13.07	13.05	13.06	0.14	34.27	42.51	45.07	37.09	5.72	19000	1.12	1.15	1.19
20000	13.27	13.28	13.40	13.28	13.26	13.28	0.14	32.73	46.97	44.58	31.49	5.92	20000	1.19	1.20	1.22
21000	13.49	13.47	13.62	13.50	13.45	13.48	0.17	33.48	36.92	35.98	33.34	6.21	21000	1.22	1.15	1.16
22000	13.64	13.64	13.77	13.63	13.62	13.66	0.15	37.52	50.38	53.45	38.21	6.54	22000	1.16	1.07	1.08
23000	13.84	13.84	14.00	13.86	13.80	13.84	0.20	27.86	41.72	41.94	27.37	7.29	23000	1.09	1.05	1.07
24000	14.07	14.08	14.21	14.08	14.00	14.08	0.21	31.67	43.46	44.10	31.91	7.12	24000	1.04	1.10	1.10
25000	14.22	14.23	14.38	14.25	14.18	14.26	0.20	37.96	43.66	48.81	36.94	7.94	25000	1.07	1.04	1.05
26000	14.35	14.36	14.55	14.43	14.31	14.39	0.24	35.68	45.97	42.89	33.16	8.08	26000	1.07	1.02	1.08
26500	14.46	14.46	14.67	14.55	14.48	14.51	0.21	49.04	44.93	41.83	38.23	8.02	26500	1.21	1.05	1.05
27000	14.54	14.54	14.71	14.59	14.53	14.57	0.19	36.12	39.60	39.14	42.84	8.38	27000	1.03	1.03	1.05
27500	14.67	14.68	14.85	14.70	14.64	14.68	0.21	39.79	39.82	40.92	35.44	8.36	27500	1.15	1.09	1.05
28000	14.78	14.82	14.94	14.81	14.74	14.82	0.20	52.60	50.39	51.98	35.84	8.35	28000	1.18	1.14	1.16

<sup>1</sup>Total Loss = Insertion Loss + 9dB Splitter Loss



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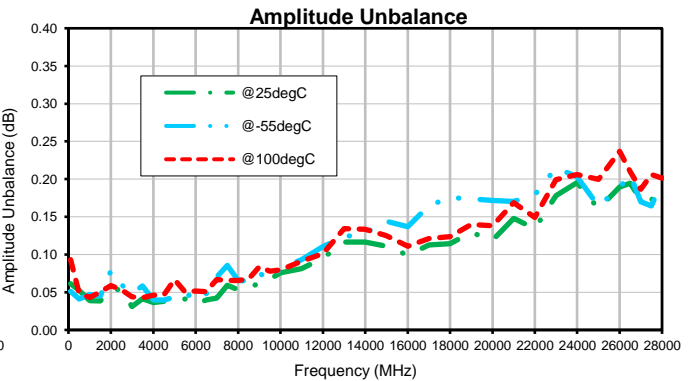
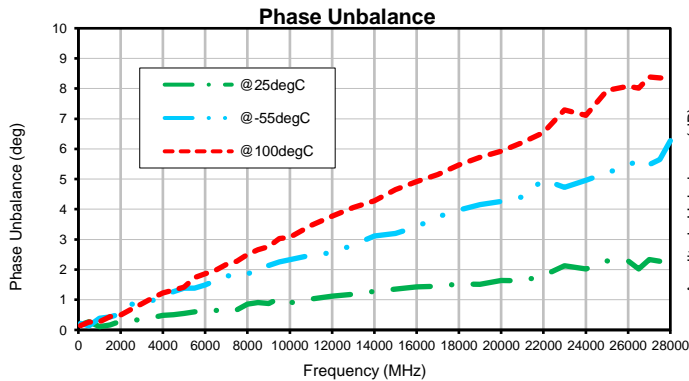
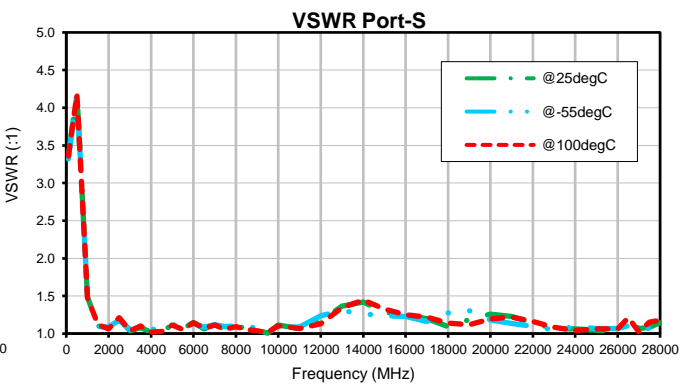
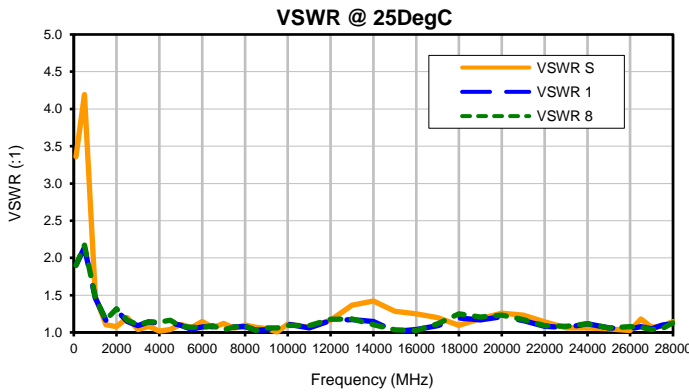
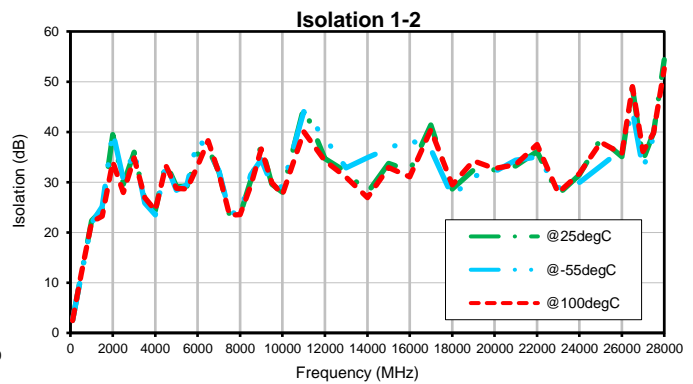
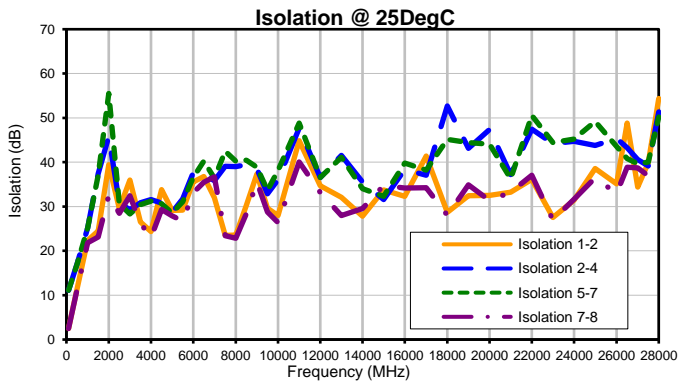
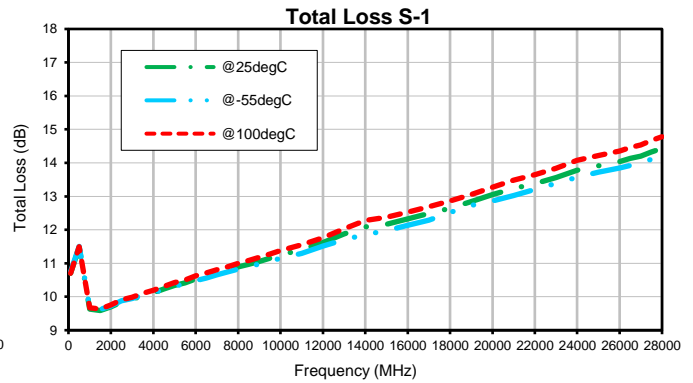
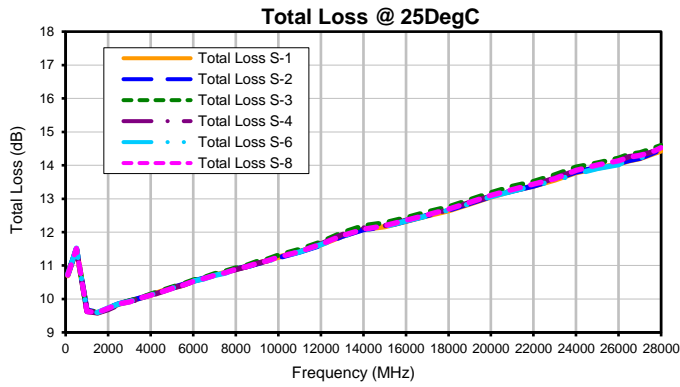
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ZC8PD-01263-S+

6/5/2019

Page 3 of 3

## Typical Performance Curves

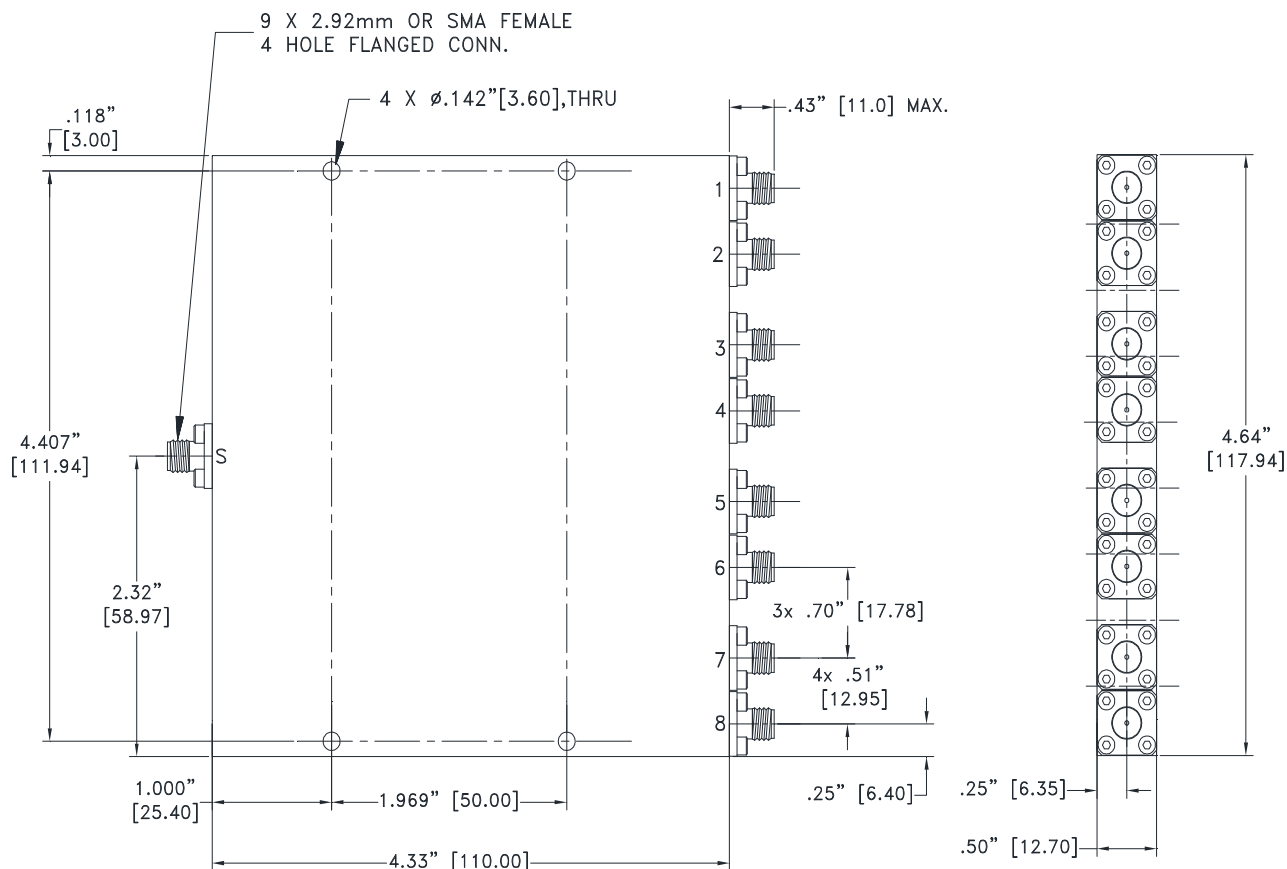


# Case Style

# UU

## Outline Dimensions

### UU2415-2



**Weight: 500 Grams  $\pm$  10%**

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

### Notes:

1. Case material: Aluminum alloy.
2. Case finish: Painting Color: Blue.
3. Refer to the individual model data sheet for the type of connectors available.

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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	-55° to 100°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Thermal Shock	-55° to 100°C, 25 cycles	MIL-STD-202, Method 107, Condition A-1 except +100°C instead of 85°C
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
Connector Durability	500 mating/unmating cycles	MIL-PRF-39012E, PARAGRAPH 4.6.12