

DC Pass, High Power

Power Splitter/Combiner ZC8PD-02263-S+

8 Way-0° 50Ω 2000 to 26500 MHz

The Big Deal

- Super wideband, 2 to 26.5 GHz
- Low insertion loss, 2.1 dB typ.
- High Isolation, 31 dB typ.
- 20W power handling
- Low amplitude unbalance, 0.11 dB typ.



CASE STYLE: UU2415-3

Product Overview

Mini-Circuits' ZC8PD-02263-S+ is a super wideband 8-way 0° splitter/combiner providing coverage from 2 to 26.5 GHz, supporting a wide range of applications including 5G, 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-02263-S+ comes housed in a case measuring 4.64 x 3.5 x 0.5" with super SMA connectors.

Key Features

Feature	Advantages
Ultra-wideband, 2 to 26.5 GHz	Extremely wide frequency range supports many broadband applications in a single model.
Low insertion loss, 2.1 dB typ.	The combination of 20W power handling and low insertion loss makes this model a suitable candidate for distributing signals while maintaining excellent transmission of signal power.
High isolation, 31 dB typ.	Minimizes interference between ports.
High power handling: • 20W as a splitter at 25°C • 2.8W as a combiner	The ZC8PD-02263-S+ is suitable for systems with a wide range of power requirements.
Low amplitude unbalance, 0.11 dB	Produces nearly equal output signals, ideal for parallel path and multichannel systems.
DC Passing, 530mA	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



DC Pass, High Power Power Splitter/Combiner

8 Way-0° 50Ω 2000 to 26500 MHz

ZC8PD-02263-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	2.8W max.
DC Current	530 mA

Permanent damage may occur if any of these limits are exceeded.
* Derate linearly to 14W 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

Features

- Super wideband, 2000 - 26500 MHz
- Low insertion loss, 2.1 dB typ.
- Low amplitude unbalance, 0.11 dB typ.
- Excellent VSWR, 1.16:1 typ.
- High isolation, 31 dB typ.

Applications

- Fixed satellite
- 5G
- Mobile
- Space research



Generic photo used for illustration purposes only

CASE STYLE: UU2415-3

Connectors	Model
SMA-Fem	ZC8PD-02263-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		2000		26500	MHz
Insertion Loss Above 9.0 dB	2000-8000 8000-18000 18000-26500		1.0 2.1 3.2	1.7 3.0 3.9	dB
Isolation	2000-8000 8000-18000 18000-26500	16 18 18	25 31 34		dB
Phase Unbalance (±)¹	2000-8000 8000-18000 18000-26500		1.0 2.3 3.8	3 5 6	Degree
Amplitude Unbalance (±)¹	2000-8000 8000-18000 18000-26500		0.07 0.11 0.19	0.3 0.4 0.5	dB
VSWR (Port S)	2000-8000 8000-18000 18000-26500		1.13 1.16 1.15	1.5 1.6 1.6	:1
VSWR (Port 1-8)	2000-8000 8000-18000 18000-26500		1.13 1.12 1.11	1.5 1.5 1.5	:1

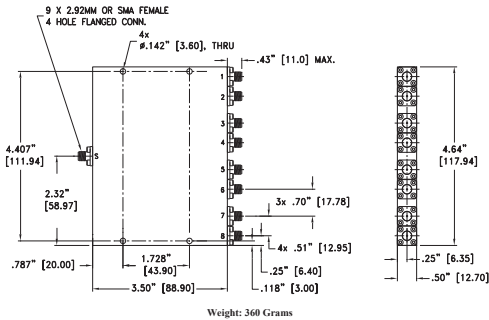
1. With reference to average.

Typical Performance Data

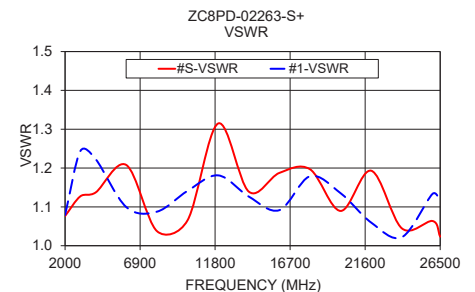
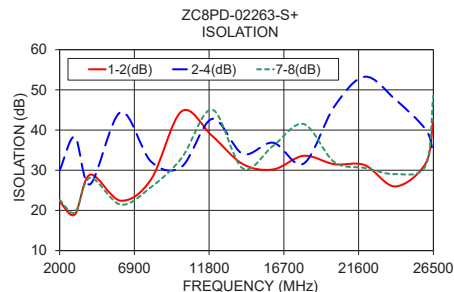
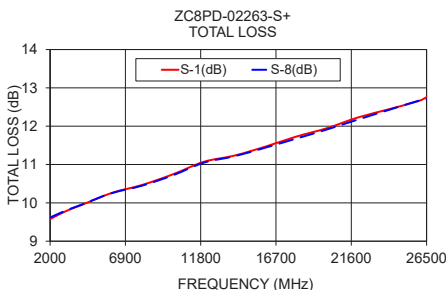
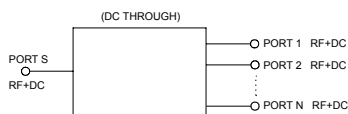
Freq. (MHz)	Total Loss² (dB)						Amp. Unbal. (dB)	Isolation (dB)				Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 8
	S-1	S-2	S-3	S-4	S-6	S-8		1-2	2-4	5-7	7-8				
2000	9.58	9.61	9.63	9.59	9.61	9.62	0.06	22.17	29.94	31.12	22.60	0.44	1.08	1.08	1.14
3000	9.78	9.82	9.79	9.75	9.80	9.80	0.07	19.01	38.29	40.97	19.53	0.78	1.13	1.24	1.24
4000	9.94	9.97	9.96	9.91	9.94	9.95	0.05	28.89	26.51	26.56	28.13	0.75	1.14	1.22	1.19
6000	10.26	10.29	10.27	10.22	10.27	10.25	0.07	22.43	44.45	46.55	21.44	1.37	1.21	1.10	1.08
8000	10.47	10.51	10.48	10.44	10.48	10.45	0.06	27.76	32.13	30.58	25.81	1.59	1.04	1.09	1.06
10000	10.75	10.80	10.74	10.70	10.74	10.72	0.10	44.67	30.88	33.78	33.05	2.15	1.07	1.14	1.15
12000	11.07	11.13	11.08	11.03	11.08	11.05	0.11	38.55	42.78	44.82	45.08	2.35	1.31	1.18	1.21
14000	11.23	11.30	11.26	11.22	11.26	11.22	0.09	31.56	34.09	35.46	30.47	2.86	1.14	1.13	1.16
16000	11.47	11.54	11.45	11.42	11.48	11.44	0.12	30.20	36.84	33.53	36.09	3.36	1.19	1.09	1.07
18000	11.73	11.80	11.71	11.68	11.70	11.67	0.16	33.60	31.65	32.09	41.50	3.48	1.20	1.18	1.12
20000	11.95	12.04	11.93	11.91	11.95	11.91	0.16	31.50	45.82	41.71	32.06	4.06	1.09	1.14	1.07
22000	12.22	12.31	12.16	12.15	12.19	12.17	0.19	31.28	53.27	63.92	30.57	4.26	1.19	1.06	1.02
24000	12.44	12.55	12.40	12.40	12.41	12.42	0.23	25.96	47.63	50.30	29.04	4.93	1.04	1.02	1.06
26000	12.66	12.76	12.64	12.64	12.68	12.67	0.17	31.76	40.10	40.56	31.19	5.15	1.06	1.13	1.11
26500	12.76	12.87	12.68	12.69	12.70	12.70	0.26	42.60	34.22	33.80	48.64	5.61	1.02	1.12	1.15

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

Outline Drawing



Electrical Schematic



Notes

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8 Way-0° Power Splitter/Combiner

ZC8PD-02263-S+

Typical Performance Data

Data tested at 25DegC

FREQ.	TOTAL LOSS ¹						AMP. UNBAL.	ISOLATION				PHASE UNBAL.	FREQ.	VSWR		
(MHz)	(dB)						(dB)	(dB)				(deg.)	(MHz)	(: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	11.55	11.57	11.55	11.52	11.54	11.54	0.06	2.74	10.51	10.50	2.76	0.11	100	4.52	2.23	2.21
500	10.31	10.32	10.30	10.27	10.32	10.34	0.08	7.27	14.92	14.63	7.36	0.55	500	2.60	1.82	1.77
1000	9.47	9.50	9.51	9.48	9.50	9.51	0.05	14.20	23.86	22.65	13.72	0.70	1000	1.34	1.15	1.14
1500	9.50	9.52	9.52	9.48	9.52	9.53	0.06	25.75	36.72	35.74	23.15	0.40	1500	1.09	1.13	1.17
2000	9.58	9.61	9.63	9.59	9.61	9.62	0.06	22.17	29.94	31.12	22.60	0.44	2000	1.08	1.08	1.14
2500	9.70	9.72	9.72	9.67	9.71	9.72	0.06	21.12	37.51	39.30	21.79	0.52	2500	1.15	1.24	1.20
3000	9.78	9.82	9.79	9.75	9.80	9.80	0.07	19.01	38.29	40.97	19.53	0.78	3000	1.13	1.24	1.24
3500	9.87	9.89	9.87	9.83	9.86	9.86	0.06	19.47	29.98	30.44	20.31	0.69	3500	1.14	1.06	1.05
4000	9.94	9.97	9.96	9.91	9.94	9.95	0.05	28.89	26.51	26.56	28.13	0.75	4000	1.14	1.22	1.19
4500	10.01	10.05	10.02	9.99	9.99	10.00	0.06	28.22	24.36	24.04	32.44	0.97	4500	1.06	1.19	1.23
5000	10.09	10.12	10.09	10.06	10.08	10.07	0.06	29.18	30.35	29.17	31.62	0.98	5000	1.12	1.12	1.17
5500	10.15	10.18	10.17	10.13	10.16	10.15	0.05	38.11	31.04	30.49	33.44	1.28	5500	1.10	1.11	1.13
6000	10.26	10.29	10.27	10.22	10.27	10.25	0.07	22.43	44.45	46.55	21.44	1.37	6000	1.21	1.10	1.08
6500	10.32	10.36	10.32	10.28	10.34	10.31	0.08	24.24	29.52	29.50	22.64	1.30	6500	1.20	1.09	1.09
7000	10.37	10.40	10.38	10.34	10.37	10.35	0.07	38.22	33.52	32.92	31.19	1.46	7000	1.15	1.02	1.02
7500	10.41	10.45	10.42	10.38	10.43	10.40	0.07	27.84	34.36	32.88	28.76	1.56	7500	1.07	1.05	1.03
8000	10.47	10.51	10.48	10.44	10.48	10.45	0.06	27.76	32.13	30.58	25.81	1.59	8000	1.04	1.09	1.06
8500	10.54	10.58	10.55	10.51	10.55	10.52	0.07	35.84	36.95	35.14	32.00	1.83	8500	1.05	1.07	1.08
9000	10.62	10.67	10.63	10.59	10.63	10.60	0.08	33.56	39.98	36.36	33.46	1.81	9000	1.14	1.05	1.05
9500	10.70	10.75	10.70	10.66	10.70	10.68	0.09	31.86	45.90	40.53	40.25	1.91	9500	1.19	1.10	1.13
10000	10.75	10.80	10.74	10.70	10.74	10.72	0.10	44.67	30.88	33.78	33.05	2.15	10000	1.07	1.14	1.15
11000	10.87	10.94	10.90	10.86	10.88	10.84	0.10	42.29	28.66	29.38	35.47	2.29	11000	1.17	1.11	1.16
12000	11.07	11.13	11.08	11.03	11.08	11.05	0.11	38.55	42.78	44.82	45.08	2.35	12000	1.31	1.18	1.21
13000	11.10	11.16	11.09	11.06	11.11	11.09	0.11	41.85	37.51	40.83	41.15	2.68	13000	1.06	1.18	1.20
14000	11.23	11.30	11.26	11.22	11.26	11.22	0.09	31.56	34.09	35.46	30.47	2.86	14000	1.14	1.13	1.16
15000	11.41	11.48	11.41	11.38	11.43	11.40	0.10	37.58	34.81	35.42	30.16	2.87	15000	1.23	1.34	1.34
16000	11.47	11.54	11.45	11.42	11.48	11.44	0.12	30.20	36.84	33.53	36.09	3.36	16000	1.19	1.09	1.07
17000	11.63	11.70	11.58	11.56	11.60	11.58	0.16	39.06	37.86	36.90	42.98	3.45	17000	1.22	1.08	1.03
18000	11.73	11.80	11.71	11.68	11.70	11.67	0.16	33.60	31.65	32.09	41.50	3.48	18000	1.20	1.18	1.12
19000	11.85	11.92	11.82	11.80	11.84	11.80	0.17	38.69	37.67	36.95	32.13	3.73	19000	1.12	1.21	1.16
20000	11.95	12.04	11.93	11.91	11.95	11.91	0.16	31.50	45.82	41.71	32.06	4.06	20000	1.09	1.14	1.07
21000	12.11	12.18	12.05	12.04	12.07	12.03	0.18	32.09	40.47	43.88	34.77	4.09	21000	1.11	1.22	1.16
22000	12.22	12.31	12.16	12.15	12.19	12.17	0.19	31.28	53.27	63.92	30.57	4.26	22000	1.19	1.06	1.02
23000	12.31	12.42	12.28	12.27	12.32	12.29	0.19	44.23	38.96	38.89	35.46	4.68	23000	1.11	1.06	1.12
24000	12.44	12.55	12.40	12.40	12.41	12.42	0.23	25.96	47.63	50.30	29.04	4.93	24000	1.04	1.02	1.06
25000	12.53	12.63	12.52	12.50	12.51	12.48	0.20	40.82	40.39	40.73	38.60	5.11	25000	1.03	1.10	1.12
26000	12.66	12.76	12.64	12.64	12.68	12.67	0.17	31.76	40.10	40.56	31.19	5.15	26000	1.06	1.13	1.11
26500	12.76	12.87	12.68	12.69	12.70	12.70	0.26	42.60	34.22	33.80	48.64	5.61	26500	1.02	1.12	1.15
27000	12.78	12.89	12.75	12.76	12.78	12.76	0.20	36.62	37.64	36.84	33.66	5.37	27000	1.04	1.07	1.12
27500	12.91	13.01	12.80	12.80	12.84	12.84	0.27	41.02	54.95	46.19	39.04	5.64	27500	1.08	1.06	1.06
28000	12.92	13.04	12.91	12.90	12.94	12.90	0.21	34.72	42.48	45.27	32.63	5.32	28000	1.12	1.10	1.07

¹Total Loss = Insertion Loss + 9dB Splitter Loss



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The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

IF/RF MICROWAVE COMPONENTS

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8 Way-0° Power Splitter/Combiner

ZC8PD-02263-S+

Typical Performance Data

Data tested at -55DegC

FREQ.	TOTAL LOSS ¹						AMP. UNBAL.	ISOLATION				PHASE UNBAL.	FREQ.	VSWR		
(MHz)	(dB)						(dB)	(dB)				(deg.)	(MHz)	(: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	11.59	11.55	11.55	11.51	11.54	11.56	0.08	2.76	10.46	10.45	2.78	5.28	100	4.52	2.20	2.21
500	10.34	10.33	10.28	10.30	10.33	10.35	0.09	7.36	14.97	14.71	7.45	1.39	500	2.64	1.85	1.80
1000	9.46	9.46	9.47	9.48	9.49	9.51	0.05	14.22	23.93	22.70	13.73	0.83	1000	1.32	1.14	1.14
1500	9.49	9.49	9.49	9.49	9.51	9.54	0.05	25.90	36.07	35.09	23.31	0.42	1500	1.09	1.12	1.18
2000	9.57	9.56	9.58	9.59	9.59	9.62	0.06	22.56	29.46	30.63	22.97	0.49	2000	1.07	1.08	1.15
2500	9.68	9.68	9.67	9.66	9.69	9.71	0.05	20.93	37.14	39.11	21.62	0.68	2500	1.14	1.22	1.18
3000	9.77	9.76	9.74	9.75	9.78	9.80	0.06	19.24	38.85	41.33	19.79	0.57	3000	1.15	1.24	1.25
3500	9.83	9.82	9.80	9.82	9.83	9.84	0.05	19.06	30.66	31.07	19.93	0.81	3500	1.11	1.06	1.04
4000	9.90	9.89	9.90	9.91	9.91	9.93	0.04	28.06	27.07	27.16	26.81	0.90	4000	1.13	1.23	1.20
4500	9.97	9.96	9.95	9.98	9.96	9.98	0.04	27.48	24.31	24.06	30.96	1.06	4500	1.06	1.18	1.24
5000	10.05	10.03	10.01	10.04	10.03	10.04	0.06	29.33	29.39	28.41	31.65	1.02	5000	1.09	1.10	1.15
5500	10.11	10.09	10.09	10.11	10.11	10.11	0.04	38.12	30.54	30.07	33.47	1.28	5500	1.09	1.13	1.12
6000	10.20	10.18	10.16	10.18	10.20	10.19	0.04	24.19	43.06	42.81	23.03	1.19	6000	1.16	1.13	1.09
6500	10.27	10.26	10.22	10.24	10.29	10.27	0.07	24.17	30.47	30.39	22.53	1.19	6500	1.20	1.07	1.08
7000	10.32	10.31	10.29	10.29	10.31	10.30	0.04	36.37	34.16	33.56	29.90	1.43	7000	1.17	1.03	1.02
7500	10.34	10.34	10.32	10.32	10.36	10.34	0.05	28.34	35.73	33.92	29.57	1.37	7500	1.05	1.02	1.03
8000	10.40	10.40	10.39	10.38	10.41	10.39	0.05	28.14	32.36	30.67	26.15	1.45	8000	1.02	1.08	1.07
8500	10.46	10.47	10.44	10.43	10.47	10.45	0.06	35.13	35.35	33.63	31.22	1.55	8500	1.07	1.06	1.08
9000	10.54	10.55	10.52	10.51	10.56	10.54	0.06	33.46	39.43	36.06	33.63	1.45	9000	1.15	1.06	1.06
9500	10.61	10.63	10.59	10.58	10.62	10.61	0.07	29.38	44.63	38.97	34.11	1.54	9500	1.19	1.08	1.11
10000	10.64	10.66	10.63	10.61	10.65	10.63	0.07	46.78	31.74	34.90	37.90	1.67	10000	1.07	1.14	1.14
11000	10.76	10.79	10.77	10.74	10.77	10.75	0.06	36.36	29.16	29.93	32.41	1.76	11000	1.15	1.11	1.14
12000	10.90	10.94	10.87	10.86	10.91	10.89	0.09	42.71	47.37	50.73	37.90	1.73	12000	1.19	1.14	1.15
13000	10.97	11.00	10.94	10.93	10.98	10.97	0.10	40.42	36.46	39.24	41.29	1.79	13000	1.08	1.20	1.21
14000	11.08	11.12	11.09	11.07	11.11	11.08	0.08	33.38	33.64	34.67	33.19	1.97	14000	1.13	1.13	1.15
15000	11.24	11.28	11.22	11.19	11.25	11.22	0.10	42.37	34.10	34.77	35.12	2.01	15000	1.22	1.31	1.31
16000	11.33	11.38	11.29	11.29	11.36	11.34	0.11	26.73	40.47	35.86	30.37	2.09	16000	1.24	1.11	1.10
17000	11.45	11.49	11.39	11.38	11.42	11.41	0.13	43.62	34.33	34.96	40.89	2.21	17000	1.15	1.09	1.04
18000	11.55	11.61	11.52	11.50	11.53	11.52	0.13	30.71	30.74	31.68	35.85	2.35	18000	1.20	1.15	1.10
19000	11.73	11.79	11.70	11.68	11.74	11.71	0.13	43.81	38.27	37.34	35.32	2.41	19000	1.34	1.25	1.20
20000	11.81	11.86	11.73	11.73	11.78	11.77	0.15	29.05	56.08	42.38	30.72	2.76	20000	1.24	1.16	1.08
21000	11.92	12.00	11.87	11.87	11.91	11.89	0.17	36.15	36.39	38.65	38.11	2.96	21000	1.28	1.27	1.18
22000	12.03	12.09	11.95	11.96	12.00	12.00	0.16	28.98	40.71	44.37	27.89	3.42	22000	1.25	1.13	1.06
23000	12.08	12.17	12.01	12.02	12.08	12.10	0.17	33.34	42.08	41.45	33.55	4.00	23000	1.09	1.04	1.07
24000	12.20	12.29	12.15	12.19	12.21	12.24	0.16	27.07	42.34	45.39	29.23	4.26	24000	1.18	1.02	1.07
25000	12.29	12.36	12.24	12.25	12.29	12.28	0.16	36.60	37.85	38.77	33.25	4.44	25000	1.10	1.06	1.10
26000	12.43	12.51	12.35	12.38	12.42	12.45	0.17	30.76	41.63	41.95	29.15	4.29	26000	1.09	1.13	1.12
26500	12.46	12.58	12.38	12.42	12.49	12.52	0.20	32.68	35.63	34.99	34.18	4.52	26500	1.11	1.13	1.18
27000	12.50	12.57	12.43	12.48	12.49	12.53	0.15	43.27	40.69	38.27	37.55	4.47	27000	1.02	1.06	1.11
27500	12.64	12.68	12.49	12.51	12.58	12.59	0.21	36.65	43.09	41.65	35.10	4.58	27500	1.13	1.05	1.05
28000	12.62	12.73	12.56	12.59	12.60	12.62	0.21	33.96	42.03	50.99	35.71	4.21	28000	1.07	1.07	1.03

¹Total Loss = Insertion Loss + 9dB Splitter Loss



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8 Way-0° Power Splitter/Combiner

ZC8PD-02263-S+

Typical Performance Data

Data tested at 100DegC

FREQ. (MHz)	TOTAL LOSS ¹						AMP. UNBAL. (dB)	ISOLATION				PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR		
	S-1	S-2	S-3	S-4	S-6	S-8		1-2	2-4	5-7	7-8			S	1	8
100	11.52	11.56	11.62	11.52	11.54	11.53	0.10	2.73	10.53	10.54	2.75	0.04	100	4.57	2.24	2.21
500	10.33	10.35	10.26	10.27	10.33	10.34	0.09	7.16	14.90	14.62	7.28	0.44	500	2.61	1.89	1.82
1000	9.47	9.52	9.54	9.49	9.51	9.51	0.07	14.25	23.68	22.52	13.75	0.35	1000	1.34	1.19	1.16
1500	9.50	9.54	9.54	9.50	9.55	9.53	0.05	26.25	35.00	34.47	23.34	0.29	1500	1.10	1.07	1.12
2000	9.58	9.63	9.64	9.61	9.64	9.63	0.06	22.40	29.43	30.56	22.79	0.49	2000	1.08	1.09	1.15
2500	9.71	9.75	9.76	9.70	9.73	9.73	0.05	21.13	36.54	38.28	21.83	0.53	2500	1.13	1.22	1.17
3000	9.80	9.85	9.83	9.78	9.83	9.81	0.07	18.81	37.60	39.97	19.36	0.63	3000	1.12	1.24	1.24
3500	9.90	9.94	9.91	9.88	9.91	9.88	0.06	19.53	29.87	30.44	20.40	0.74	3500	1.15	1.11	1.08
4000	9.96	10.01	10.01	9.95	9.99	9.97	0.05	29.22	26.34	26.46	28.86	0.93	4000	1.15	1.25	1.21
4500	10.04	10.09	10.07	10.02	10.04	10.02	0.07	27.96	24.35	24.06	32.10	1.01	4500	1.08	1.21	1.23
5000	10.13	10.17	10.15	10.11	10.13	10.10	0.06	28.78	30.53	29.41	31.51	1.08	5000	1.13	1.12	1.16
5500	10.20	10.24	10.23	10.20	10.22	10.19	0.05	38.36	30.92	30.48	33.40	1.13	5500	1.12	1.11	1.13
6000	10.32	10.36	10.34	10.28	10.35	10.29	0.08	22.14	42.47	44.50	21.13	1.21	6000	1.23	1.13	1.10
6500	10.37	10.42	10.38	10.33	10.41	10.35	0.09	24.37	28.99	29.00	22.74	1.40	6500	1.18	1.09	1.09
7000	10.43	10.47	10.46	10.41	10.44	10.39	0.08	39.61	33.11	32.55	31.78	1.60	7000	1.15	1.02	1.02
7500	10.48	10.53	10.50	10.45	10.50	10.45	0.08	27.58	34.03	32.70	28.42	1.63	7500	1.08	1.05	1.03
8000	10.54	10.59	10.57	10.53	10.56	10.50	0.08	27.58	32.58	31.03	25.66	1.72	8000	1.06	1.09	1.06
8500	10.62	10.67	10.64	10.59	10.63	10.57	0.10	36.75	38.14	36.37	32.43	1.86	8500	1.07	1.07	1.08
9000	10.70	10.75	10.73	10.67	10.72	10.66	0.10	34.48	41.20	37.21	33.97	1.95	9000	1.14	1.05	1.05
9500	10.79	10.85	10.80	10.74	10.79	10.75	0.10	33.13	47.12	42.49	44.60	2.03	9500	1.18	1.11	1.14
10000	10.84	10.90	10.84	10.80	10.84	10.79	0.11	40.40	30.29	33.01	31.89	2.11	10000	1.06	1.15	1.15
11000	10.99	11.05	11.03	10.96	10.99	10.92	0.14	44.45	28.34	29.07	36.69	2.22	11000	1.17	1.12	1.16
12000	11.23	11.29	11.24	11.16	11.22	11.15	0.15	36.13	40.51	42.05	41.20	2.51	12000	1.36	1.21	1.22
13000	11.23	11.30	11.24	11.18	11.24	11.17	0.12	44.59	37.67	41.10	42.23	2.71	13000	1.08	1.19	1.21
14000	11.38	11.45	11.40	11.36	11.41	11.31	0.14	31.29	34.00	35.41	30.16	2.93	14000	1.14	1.13	1.16
15000	11.58	11.64	11.60	11.53	11.59	11.50	0.14	36.42	35.49	36.04	29.41	3.03	15000	1.24	1.37	1.35
16000	11.63	11.71	11.61	11.57	11.64	11.54	0.17	30.97	36.26	33.16	37.56	3.28	16000	1.17	1.08	1.07
17000	11.80	11.87	11.77	11.73	11.77	11.69	0.18	38.12	38.08	36.81	43.06	3.42	17000	1.23	1.08	1.04
18000	11.94	12.02	11.92	11.88	11.89	11.80	0.21	32.49	31.89	32.16	38.64	3.65	18000	1.25	1.20	1.14
19000	12.04	12.11	12.01	11.96	12.02	11.92	0.19	37.24	36.91	36.27	31.28	3.88	19000	1.06	1.19	1.14
20000	12.17	12.26	12.15	12.11	12.16	12.06	0.20	31.22	47.63	42.27	31.78	4.03	20000	1.14	1.13	1.07
21000	12.33	12.41	12.28	12.25	12.28	12.18	0.23	32.47	39.37	42.98	35.46	4.31	21000	1.17	1.21	1.16
22000	12.46	12.54	12.39	12.36	12.39	12.32	0.22	33.35	47.21	49.37	32.60	4.43	22000	1.19	1.01	1.03
23000	12.57	12.68	12.56	12.52	12.55	12.45	0.22	47.08	37.77	37.81	34.86	4.54	23000	1.17	1.08	1.13
24000	12.71	12.82	12.69	12.66	12.67	12.58	0.25	26.00	49.92	53.31	29.34	4.84	24000	1.07	1.03	1.08
25000	12.82	12.91	12.81	12.76	12.77	12.66	0.25	41.77	40.47	40.61	38.84	4.85	25000	1.08	1.13	1.14
26000	12.94	13.04	12.94	12.91	12.95	12.85	0.20	32.68	38.96	39.23	32.64	5.25	26000	1.06	1.15	1.12
26500	13.06	13.17	13.00	12.97	12.96	12.87	0.30	43.54	34.35	33.85	54.18	5.05	26500	1.07	1.15	1.17
27000	13.08	13.18	13.05	13.02	13.04	12.94	0.24	36.23	38.23	37.32	33.99	5.27	27000	1.05	1.12	1.14
27500	13.19	13.27	13.10	13.06	13.10	13.01	0.26	42.67	55.96	47.95	41.06	5.29	27500	1.03	1.09	1.08
28000	13.29	13.39	13.24	13.19	13.25	13.11	0.28	33.82	40.62	42.87	31.75	4.98	28000	1.21	1.15	1.11

¹Total Loss = Insertion Loss + 9dB Splitter Loss

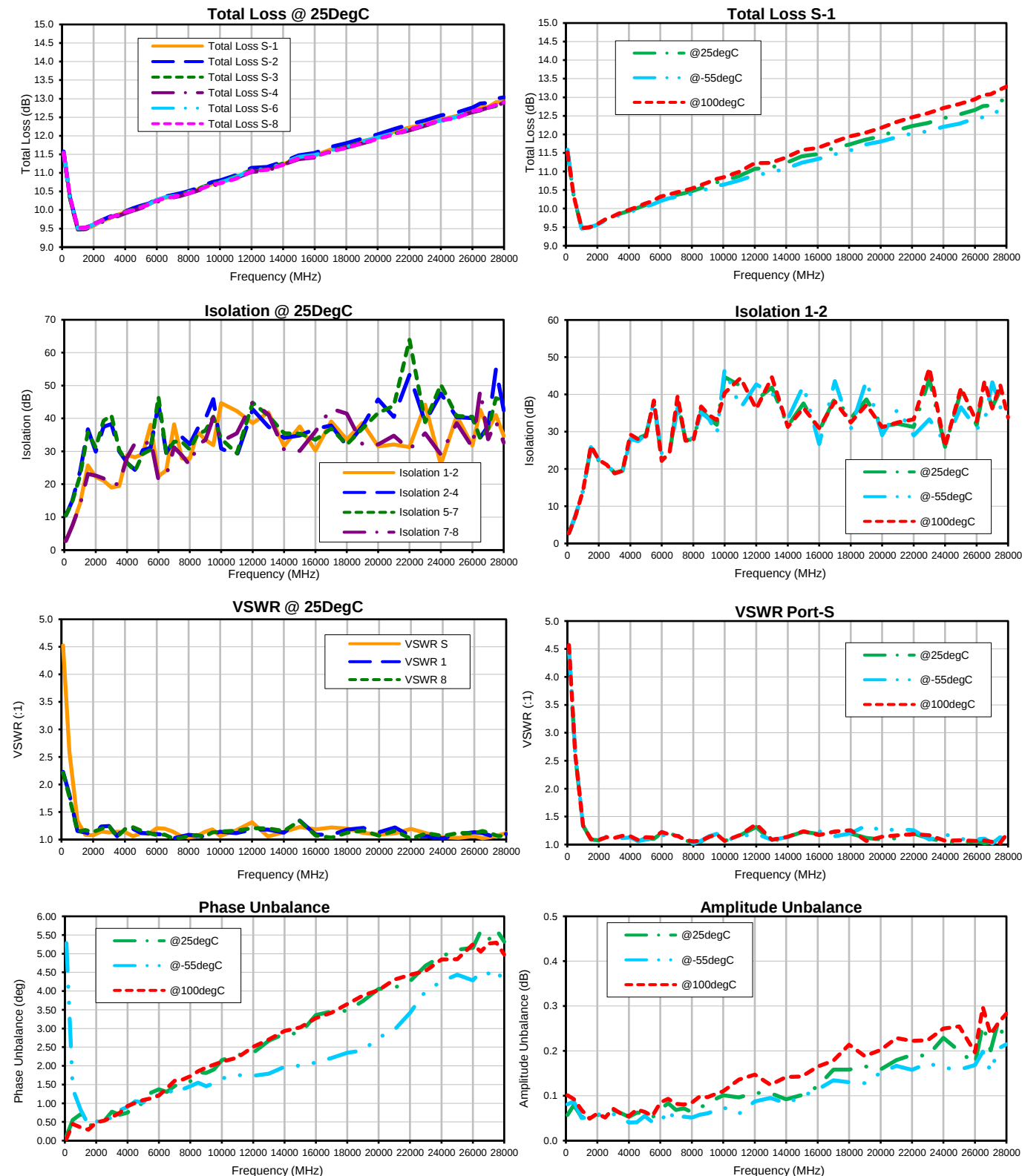


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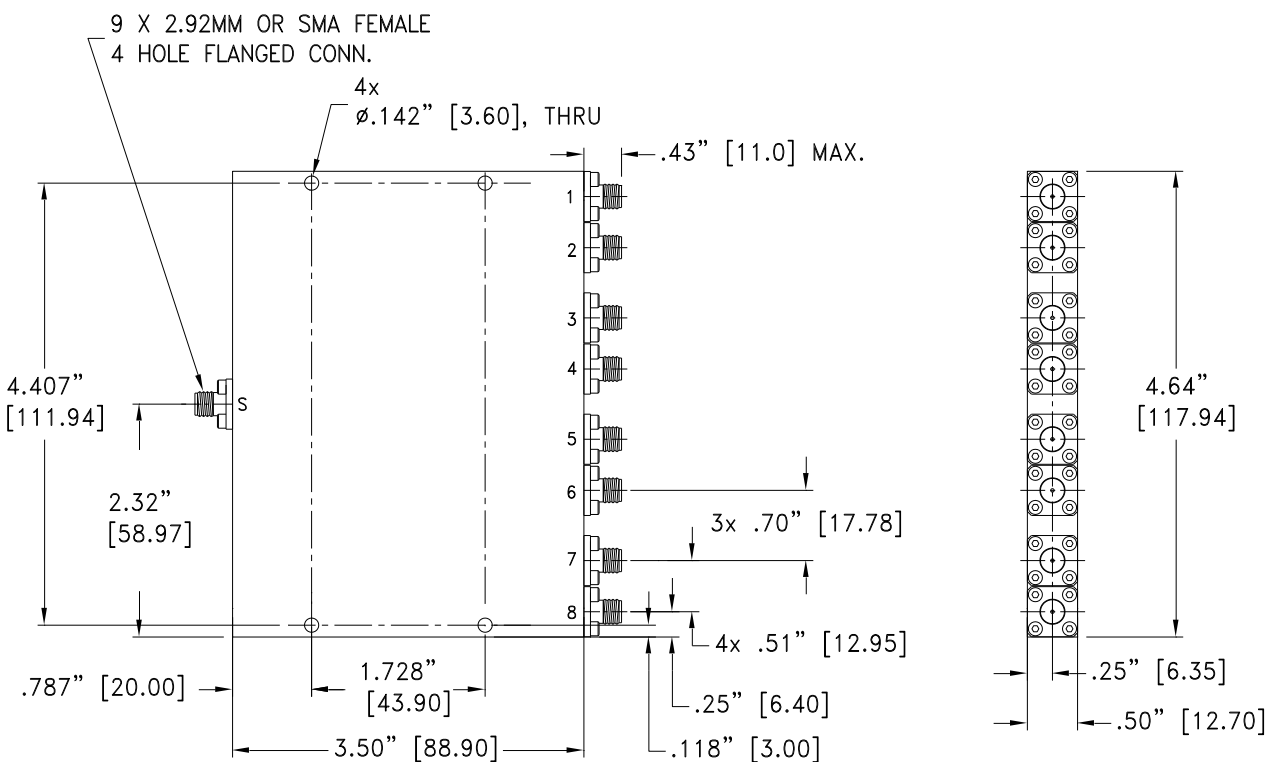
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Typical Performance Curves



Outline Dimensions

UU2415-3



Weight: 360 Grams

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