

DC Pass, High Power

Power Splitter/Combiner ZC8PD-5R263-S+

8 Way-0° 50Ω 500 to 26500 MHz

The Big Deal

- Super wideband, 0.5 to 26.5 GHz
- High Isolation, 35 dB typ.
- Low amplitude unbalance, 0.2 dB typ.
- 20W power handling



CASE STYLE: UU2415-1

Product Overview

Mini-Circuits' ZC8PD-5R263-S+ is a super wideband 8-way 0° splitter/combiner providing coverage from 0.5 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-5R263-S+ comes housed in a case measuring 4.64 x 6.37 x 0.5" with super SMA connectors.

Key Features

Feature	Advantages
Super wideband, 0.5 to 26.5 GHz	Extremely wide frequency range supports many broadband applications in a single model.
High isolation, 35 dB typ.	Minimizes interference between ports.
High power handling: <ul style="list-style-type: none">• 20W as a splitter at 25°C• 4.7W as a combiner	The ZC8PD-5R263-S+ is suitable for systems with a wide range of power requirements.
Low amplitude unbalance, 0.2 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

ZC8PD-5R263-S+

8 Way-0° 50Ω 500 to 26500 MHz

Maximum Ratings

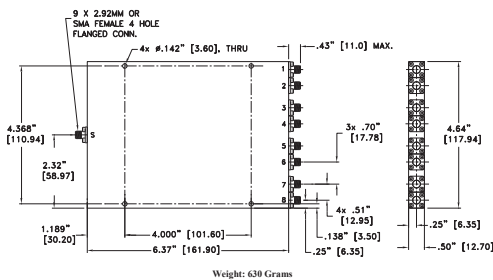
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	20W* max.
Internal Dissipation	4.7W max.
DC Current	530 mA

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

Outline Drawing



Features

- Super wideband, 500 - 26500 MHz
- Low amplitude unbalance, 0.2 dB typ.
- Excellent VSWR, 1.16:1 typ.
- High isolation, 35 dB typ.

Applications

- Fixed satellite
- 5G
- Mobile
- Space research



Generic photo used for illustration purposes only

CASE STYLE: UU2415-1

Connectors	Model
SMA-Fem	ZC8PD-5R263-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		500		26500	MHz
Insertion Loss Above 9.0 dB	500-8000		1.9	3.4	
	8000-18000		4.1	5.8	dB
	18000-26500		6.3	8.0	
Isolation	500-8000	14	30		
	8000-18000	18	35		dB
	18000-26500	18	36		
Phase Unbalance (±)¹	500-8000		1.3	4	
	8000-18000		3.1	5	Degree
	18000-26500		5	7	
Amplitude Unbalance (±)¹	500-8000		0.16	0.5	
	8000-18000		0.20	0.5	dB
	18000-26500		0.26	0.5	
VSWR (Port S)	500-8000		1.16	1.6	
	8000-18000		1.16	1.6	:1
	18000-26500		1.16	1.6	
VSWR (Port 1-8)	500-8000		1.1	1.6	
	8000-18000		1.1	1.5	:1
	18000-26500		1.18	1.6	

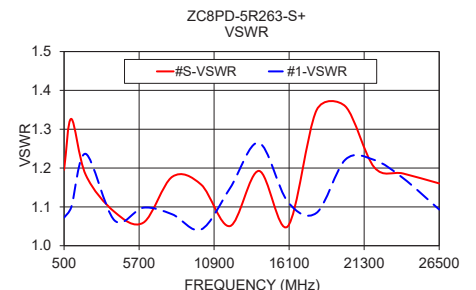
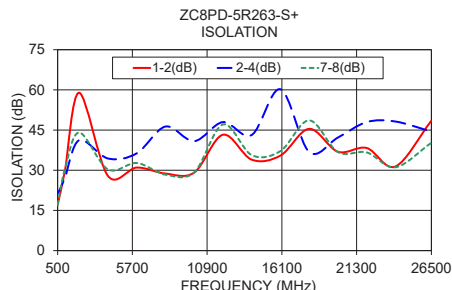
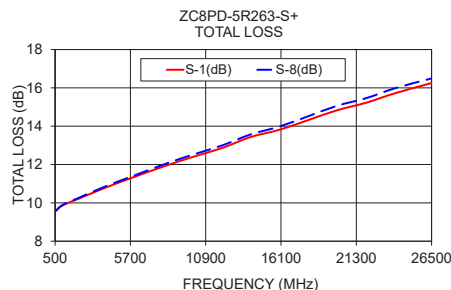
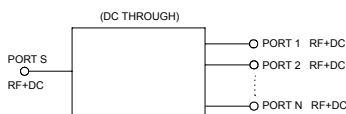
1. With reference to average

Typical Performance Data

Freq. (MHz)	Total Loss¹ (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				
500	9.55	9.55	9.54	9.55	9.55	9.55	0.01	17.14	21.19	21.71	16.99	0.32	1.20	1.07	1.09
1000	9.86	9.86	9.87	9.87	9.87	9.88	0.02	29.50	27.07	27.33	30.20	0.37	1.33	1.10	1.11
2000	10.18	10.19	10.20	10.20	10.22	10.22	0.04	58.92	41.22	40.75	44.07	0.52	1.18	1.24	1.23
4000	10.80	10.79	10.82	10.84	10.85	10.87	0.08	27.88	34.39	36.25	30.31	0.68	1.09	1.07	1.07
6000	11.36	11.34	11.40	11.43	11.44	11.44	0.10	30.99	36.29	36.68	32.70	0.91	1.06	1.10	1.11
8000	11.90	11.87	11.95	12.00	12.00	12.00	0.14	28.76	46.30	45.88	28.34	1.20	1.18	1.08	1.08
10000	12.40	12.36	12.46	12.53	12.50	12.51	0.17	29.11	40.85	41.52	29.19	1.37	1.16	1.04	1.04
12000	12.85	12.81	12.93	13.00	12.98	12.99	0.19	43.25	47.97	44.96	47.08	1.58	1.05	1.15	1.14
14000	13.43	13.38	13.54	13.62	13.58	13.57	0.24	33.94	43.16	43.11	35.65	1.77	1.19	1.27	1.25
16000	13.82	13.76	13.94	14.01	13.98	13.98	0.25	35.46	60.23	50.43	37.16	2.00	1.05	1.11	1.09
18000	14.33	14.27	14.47	14.56	14.51	14.52	0.28	45.45	36.83	37.56	48.61	2.09	1.35	1.08	1.09
20000	14.84	14.79	15.03	15.09	15.05	15.07	0.30	36.90	42.20	39.77	36.78	2.18	1.36	1.22	1.25
22000	15.23	15.18	15.48	15.51	15.48	15.47	0.34	38.30	47.97	54.47	36.66	2.24	1.20	1.22	1.23
24000	15.73	15.70	15.98	16.04	15.99	15.99	0.34	31.40	48.18	45.25	31.11	2.30	1.19	1.17	1.19
26500	16.25	16.22	16.53	16.54	16.48	16.49	0.32	48.47	44.45	44.94	40.25	2.79	1.16	1.09	1.10

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

Electrical Schematic



Notes

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8 Way-0° Power Splitter/Combiner

ZC8PD-5R263-S+

Typical Performance Data

Data tested at 25DegC

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	S-6	S-8		1-2	2-4	5-7	7-8			S	1	8
100	9.40	9.39	9.43	9.41	9.41	9.41	0.03	2.84	11.91	11.77	2.88	0.40	100	1.44	1.54	1.53
500	9.55	9.55	9.54	9.55	9.55	9.55	0.01	17.14	21.19	21.71	16.99	0.32	500	1.20	1.07	1.09
1000	9.86	9.86	9.87	9.87	9.87	9.88	0.02	29.50	27.07	27.33	30.20	0.37	1000	1.33	1.10	1.11
1500	10.02	10.02	10.03	10.03	10.04	10.05	0.03	30.61	26.77	26.80	30.70	0.36	1500	1.23	1.16	1.15
2000	10.18	10.19	10.20	10.20	10.22	10.22	0.04	58.92	41.22	40.75	44.07	0.52	2000	1.18	1.24	1.23
2500	10.32	10.32	10.34	10.35	10.36	10.37	0.05	39.10	33.71	34.14	39.53	0.48	2500	1.07	1.06	1.05
3000	10.57	10.56	10.59	10.60	10.61	10.62	0.05	32.39	37.20	38.19	34.05	0.61	3000	1.29	1.24	1.24
3500	10.75	10.74	10.78	10.80	10.80	10.81	0.07	24.96	37.39	37.65	25.23	0.67	3500	1.34	1.14	1.14
4000	10.80	10.79	10.82	10.84	10.85	10.87	0.08	27.88	34.39	36.25	30.31	0.68	4000	1.09	1.07	1.07
4500	11.05	11.04	11.08	11.10	11.12	11.12	0.08	24.91	36.85	40.46	24.92	0.80	4500	1.33	1.20	1.21
5000	11.12	11.10	11.14	11.17	11.18	11.18	0.08	29.09	37.58	36.69	29.21	0.81	5000	1.18	1.11	1.11
5500	11.25	11.24	11.29	11.32	11.33	11.33	0.09	47.28	42.46	42.00	46.63	0.89	5500	1.17	1.15	1.16
6000	11.36	11.34	11.40	11.43	11.44	11.44	0.10	30.99	36.29	36.68	32.70	0.91	6000	1.06	1.10	1.11
6500	11.65	11.62	11.69	11.71	11.72	11.72	0.09	26.94	39.33	38.09	26.69	1.03	6500	1.36	1.23	1.21
7000	11.65	11.62	11.69	11.72	11.73	11.74	0.12	36.43	52.18	46.58	32.88	1.08	7000	1.17	1.10	1.09
7500	11.77	11.74	11.81	11.85	11.86	11.85	0.12	32.78	39.37	39.54	33.49	1.19	7500	1.10	1.14	1.12
8000	11.90	11.87	11.95	12.00	12.00	12.00	0.14	28.76	46.30	45.88	28.34	1.20	8000	1.18	1.08	1.08
8500	12.03	11.99	12.08	12.12	12.13	12.13	0.14	30.95	42.64	40.92	30.07	1.23	8500	1.15	1.10	1.11
9000	12.13	12.09	12.18	12.24	12.23	12.23	0.15	34.79	48.04	52.46	32.79	1.25	9000	1.09	1.06	1.06
9500	12.25	12.21	12.31	12.37	12.36	12.37	0.16	34.69	37.85	37.40	35.24	1.35	9500	1.09	1.05	1.06
10000	12.40	12.36	12.46	12.53	12.50	12.51	0.17	29.11	40.85	41.52	29.19	1.37	10000	1.16	1.04	1.04
11000	12.66	12.62	12.73	12.78	12.78	12.79	0.18	28.98	62.51	55.97	29.71	1.44	11000	1.16	1.10	1.09
12000	12.85	12.81	12.93	13.00	12.98	12.99	0.19	43.25	47.97	44.96	47.08	1.58	12000	1.05	1.15	1.14
13000	13.16	13.12	13.26	13.32	13.29	13.30	0.20	30.49	39.70	39.71	30.00	1.72	13000	1.22	1.19	1.18
14000	13.43	13.38	13.54	13.62	13.58	13.57	0.24	33.94	43.16	43.11	35.65	1.77	14000	1.19	1.27	1.25
15000	13.58	13.53	13.69	13.76	13.73	13.73	0.24	37.05	41.40	45.69	34.88	1.96	15000	1.15	1.15	1.13
16000	13.82	13.76	13.94	14.01	13.98	13.98	0.25	35.46	60.23	50.43	37.16	2.00	16000	1.05	1.11	1.09
17000	14.02	13.97	14.17	14.24	14.19	14.20	0.27	37.30	40.46	39.49	38.34	2.09	17000	1.14	1.04	1.07
18000	14.33	14.27	14.47	14.56	14.51	14.52	0.28	45.45	36.83	37.56	48.61	2.09	18000	1.35	1.08	1.09
19000	14.52	14.46	14.70	14.76	14.70	14.72	0.30	31.53	45.09	47.47	31.24	2.14	19000	1.18	1.18	1.20
20000	14.84	14.79	15.03	15.09	15.05	15.07	0.30	36.90	42.20	39.77	36.78	2.18	20000	1.36	1.22	1.25
21000	14.99	14.94	15.21	15.25	15.21	15.21	0.31	33.95	40.30	41.33	36.71	2.26	21000	1.07	1.24	1.25
22000	15.23	15.18	15.48	15.51	15.48	15.47	0.34	38.30	47.97	54.47	36.66	2.24	22000	1.20	1.22	1.23
23000	15.44	15.39	15.69	15.73	15.66	15.68	0.34	39.85	53.41	51.67	36.47	2.25	23000	1.01	1.13	1.14
24000	15.73	15.70	15.98	16.04	15.99	15.99	0.34	31.40	48.18	45.25	31.11	2.30	24000	1.19	1.17	1.19
25000	15.90	15.85	16.19	16.24	16.14	16.18	0.39	58.72	43.74	46.15	48.85	2.48	25000	1.14	1.10	1.11
26000	16.17	16.15	16.43	16.47	16.40	16.42	0.32	28.89	54.38	50.07	29.00	2.83	26000	1.16	1.17	1.18
26500	16.25	16.22	16.53	16.54	16.48	16.49	0.32	48.47	44.45	44.94	40.25	2.79	26500	1.16	1.09	1.10
27000	16.40	16.36	16.67	16.70	16.64	16.66	0.34	32.05	45.94	51.15	32.75	2.78	27000	1.23	1.13	1.14
27500	16.50	16.46	16.79	16.79	16.75	16.77	0.33	34.52	42.46	42.61	33.04	3.00	27500	1.16	1.14	1.14
28000	16.63	16.59	16.91	16.91	16.85	16.88	0.32	34.16	44.74	44.79	37.69	3.12	28000	1.16	1.10	1.09

¹Total Loss = Insertion Loss + 9dB Splitter Loss



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IF/RF MICROWAVE COMPONENTS

REV. OR
ZC8PD-5R263-S+
6/5/2019
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8 Way-0° Power Splitter/Combiner

ZC8PD-5R263-S+

Typical Performance Data

Data tested at -55DegC

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	S-6	S-8		1-2	2-4	5-7	7-8			S	1	8
100	9.40	9.43	9.34	9.53	9.44	9.41	0.19	2.88	11.87	11.86	2.90	0.95	100	1.44	1.53	1.53
500	9.52	9.55	9.52	9.64	9.55	9.54	0.12	17.07	21.24	21.72	16.90	0.28	500	1.22	1.06	1.08
1000	9.81	9.86	9.80	9.95	9.85	9.85	0.14	29.98	27.06	27.33	30.90	0.24	1000	1.33	1.09	1.10
1500	9.97	10.01	9.95	10.11	9.98	10.00	0.15	30.57	26.59	26.69	31.24	0.37	1500	1.26	1.17	1.16
2000	10.09	10.14	10.10	10.23	10.13	10.16	0.14	46.00	39.63	39.47	41.07	0.53	2000	1.18	1.22	1.22
2500	10.23	10.28	10.22	10.36	10.27	10.30	0.14	37.80	34.30	35.04	39.07	0.47	2500	1.06	1.06	1.05
3000	10.45	10.49	10.44	10.58	10.49	10.52	0.14	35.65	37.16	38.66	37.32	0.74	3000	1.25	1.24	1.24
3500	10.63	10.69	10.63	10.77	10.70	10.73	0.14	24.42	35.64	35.93	24.75	0.83	3500	1.33	1.14	1.15
4000	10.66	10.72	10.66	10.80	10.74	10.76	0.15	29.55	32.79	34.26	32.68	0.75	4000	1.06	1.07	1.07
4500	10.85	10.91	10.84	10.99	10.95	10.98	0.16	24.79	36.23	39.05	24.51	0.90	4500	1.25	1.18	1.20
5000	10.93	11.01	10.93	11.09	11.01	11.05	0.16	29.34	36.34	35.55	29.50	0.86	5000	1.10	1.10	1.10
5500	11.09	11.17	11.09	11.25	11.18	11.21	0.16	40.62	43.95	43.72	42.32	0.92	5500	1.21	1.16	1.16
6000	11.18	11.26	11.17	11.33	11.26	11.30	0.16	30.07	37.38	37.69	32.22	1.05	6000	1.05	1.11	1.11
6500	11.41	11.48	11.39	11.55	11.49	11.54	0.15	28.30	40.84	38.78	27.74	1.27	6500	1.26	1.23	1.21
7000	11.46	11.55	11.46	11.61	11.55	11.60	0.16	34.72	44.85	43.76	32.00	1.29	7000	1.20	1.09	1.07
7500	11.55	11.65	11.55	11.71	11.65	11.69	0.16	36.08	37.92	38.14	36.30	1.31	7500	1.11	1.14	1.12
8000	11.65	11.76	11.66	11.82	11.76	11.81	0.17	31.12	44.09	44.46	30.36	1.33	8000	1.06	1.08	1.07
8500	11.78	11.90	11.79	11.95	11.88	11.94	0.18	31.06	43.64	42.58	30.32	1.49	8500	1.02	1.11	1.11
9000	11.89	12.01	11.91	12.06	11.99	12.05	0.18	33.91	45.18	48.41	32.25	1.57	9000	1.12	1.05	1.05
9500	11.99	12.13	12.02	12.18	12.11	12.16	0.19	34.58	38.83	38.45	35.17	1.66	9500	1.12	1.06	1.05
10000	12.09	12.24	12.13	12.29	12.22	12.28	0.19	33.33	43.44	43.84	32.45	1.84	10000	1.06	1.02	1.00
11000	12.34	12.51	12.39	12.55	12.48	12.54	0.21	30.30	49.48	52.54	30.94	2.00	11000	1.17	1.08	1.09
12000	12.52	12.71	12.58	12.74	12.67	12.73	0.22	46.53	48.87	46.79	42.95	2.27	12000	1.06	1.12	1.12
13000	12.78	12.98	12.83	13.01	12.94	13.01	0.24	31.88	40.67	40.95	30.74	2.48	13000	1.11	1.18	1.20
14000	13.00	13.23	13.07	13.26	13.18	13.22	0.25	37.92	46.41	44.03	39.81	2.81	14000	1.15	1.21	1.23
15000	13.22	13.45	13.31	13.48	13.40	13.44	0.26	36.52	45.20	43.78	34.03	3.00	15000	1.17	1.13	1.16
16000	13.44	13.68	13.54	13.69	13.64	13.70	0.26	31.03	45.22	49.83	30.39	3.34	16000	1.26	1.11	1.13
17000	13.66	13.94	13.77	13.94	13.87	13.92	0.28	35.44	37.39	37.07	34.57	3.46	17000	1.37	1.04	1.06
18000	13.88	14.13	13.98	14.12	14.07	14.14	0.27	29.78	38.25	37.97	31.71	3.54	18000	1.27	1.06	1.05
19000	14.06	14.34	14.18	14.33	14.27	14.37	0.31	34.82	56.11	62.57	33.72	4.01	19000	1.22	1.19	1.19
20000	14.26	14.55	14.40	14.53	14.48	14.57	0.32	33.52	49.52	43.03	34.42	4.21	20000	1.17	1.18	1.19
21000	14.49	14.78	14.64	14.76	14.72	14.80	0.31	35.97	40.58	41.27	39.36	4.38	21000	1.11	1.28	1.25
22000	14.67	15.00	14.88	14.98	14.94	15.01	0.33	40.67	44.54	45.73	39.87	4.90	22000	1.21	1.22	1.22
23000	14.86	15.20	15.05	15.18	15.11	15.22	0.36	46.38	44.23	44.63	41.10	5.01	23000	1.09	1.14	1.16
24000	15.10	15.48	15.33	15.46	15.38	15.46	0.38	41.21	48.43	47.93	42.87	5.18	24000	1.16	1.10	1.15
25000	15.30	15.67	15.51	15.64	15.55	15.67	0.37	38.19	40.64	44.15	36.50	5.52	25000	1.16	1.05	1.11
26000	15.50	15.85	15.69	15.83	15.76	15.89	0.39	30.97	52.64	50.22	30.43	5.84	26000	1.06	1.11	1.16
26500	15.57	15.92	15.78	15.89	15.82	15.95	0.37	34.23	45.61	45.40	38.45	6.20	26500	1.09	1.05	1.11
27000	15.75	16.07	15.95	16.03	15.98	16.12	0.37	33.35	42.89	43.70	33.92	6.21	27000	1.21	1.07	1.12
27500	15.83	16.16	16.06	16.13	16.09	16.20	0.37	34.76	47.78	45.96	37.35	6.40	27500	1.21	1.09	1.12
28000	15.94	16.27	16.16	16.24	16.19	16.32	0.38	31.26	44.85	44.56	33.60	6.61	28000	1.14	1.10	1.13

¹Total Loss = Insertion Loss + 9dB Splitter Loss



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8 Way-0° Power Splitter/Combiner

ZC8PD-5R263-S+

Typical Performance Data

Data tested at 100DegC

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	S-6	S-8		1-2	2-4	5-7	7-8			S	1	8
100	9.41	9.40	9.48	9.43	9.42	9.40	0.09	2.81	11.96	11.96	2.86	0.21	100	1.44	1.56	1.54
500	9.59	9.59	9.56	9.57	9.56	9.57	0.03	16.55	19.98	20.26	16.04	0.14	500	1.18	1.12	1.14
1000	9.91	9.91	9.91	9.91	9.89	9.90	0.03	27.71	26.04	26.24	28.20	0.21	1000	1.33	1.17	1.18
1500	10.08	10.08	10.08	10.07	10.07	10.07	0.03	27.60	26.07	26.22	27.55	0.42	1500	1.21	1.17	1.16
2000	10.26	10.26	10.26	10.26	10.25	10.25	0.02	42.42	39.33	39.20	52.58	0.56	2000	1.18	1.27	1.27
2500	10.41	10.40	10.40	10.41	10.40	10.41	0.02	36.80	32.27	32.50	37.86	0.66	2500	1.06	1.07	1.06
3000	10.69	10.67	10.68	10.68	10.66	10.67	0.04	29.50	35.46	36.53	31.23	0.72	3000	1.31	1.26	1.26
3500	10.86	10.84	10.86	10.87	10.84	10.85	0.04	24.90	37.79	39.25	24.90	0.79	3500	1.32	1.13	1.14
4000	10.94	10.90	10.92	10.93	10.92	10.93	0.04	26.17	34.59	37.16	28.29	0.92	4000	1.12	1.06	1.07
4500	11.23	11.18	11.21	11.22	11.20	11.20	0.05	24.99	37.22	41.34	24.89	1.07	4500	1.37	1.21	1.22
5000	11.29	11.23	11.27	11.28	11.25	11.26	0.05	28.58	37.84	36.88	28.34	1.14	5000	1.22	1.11	1.11
5500	11.41	11.35	11.40	11.42	11.39	11.39	0.06	49.96	42.62	42.37	47.03	1.27	5500	1.14	1.16	1.16
6000	11.54	11.48	11.52	11.54	11.52	11.51	0.07	30.56	35.17	35.33	32.08	1.44	6000	1.08	1.10	1.10
6500	11.85	11.77	11.83	11.84	11.80	11.81	0.08	26.55	39.88	38.69	26.35	1.50	6500	1.38	1.22	1.21
7000	11.84	11.75	11.82	11.85	11.81	11.82	0.10	36.49	55.26	47.10	32.25	1.55	7000	1.12	1.10	1.08
7500	11.99	11.89	11.96	11.98	11.94	11.95	0.10	31.50	40.12	40.62	32.25	1.72	7500	1.07	1.14	1.11
8000	12.15	12.05	12.14	12.17	12.12	12.12	0.13	28.20	50.02	49.39	27.61	1.79	8000	1.23	1.10	1.09
8500	12.28	12.16	12.26	12.29	12.24	12.25	0.13	30.98	40.80	39.15	29.86	1.90	8500	1.18	1.09	1.09
9000	12.38	12.26	12.36	12.40	12.33	12.35	0.14	34.95	48.76	52.01	32.31	2.07	9000	1.04	1.06	1.05
9500	12.52	12.39	12.50	12.53	12.47	12.49	0.14	34.21	37.30	36.68	34.68	2.18	9500	1.07	1.04	1.05
10000	12.69	12.55	12.67	12.72	12.64	12.65	0.16	28.28	39.33	40.19	28.77	2.25	10000	1.19	1.06	1.05
11000	12.97	12.82	12.94	12.99	12.91	12.93	0.17	28.55	61.05	51.98	29.51	2.51	11000	1.15	1.10	1.10
12000	13.18	13.03	13.17	13.22	13.13	13.14	0.19	39.58	45.00	42.58	44.77	2.65	12000	1.04	1.14	1.15
13000	13.49	13.33	13.49	13.53	13.43	13.45	0.20	31.27	40.17	40.05	30.82	2.90	13000	1.17	1.15	1.17
14000	13.82	13.64	13.82	13.88	13.76	13.77	0.24	32.03	40.43	42.01	34.31	2.98	14000	1.26	1.23	1.25
15000	13.98	13.79	13.99	14.03	13.92	13.93	0.24	37.30	38.72	41.83	34.57	3.32	15000	1.16	1.12	1.12
16000	14.26	14.06	14.28	14.33	14.21	14.22	0.27	34.76	44.91	42.64	37.27	3.59	16000	1.19	1.09	1.09
17000	14.50	14.30	14.53	14.56	14.43	14.44	0.27	34.31	44.51	42.39	35.93	3.68	17000	1.20	1.07	1.07
18000	14.78	14.57	14.81	14.87	14.73	14.74	0.30	38.44	37.15	38.47	42.29	3.90	18000	1.29	1.11	1.08
19000	15.04	14.82	15.10	15.13	14.97	14.98	0.31	31.13	43.00	43.70	31.44	4.08	19000	1.19	1.21	1.19
20000	15.34	15.13	15.41	15.46	15.29	15.32	0.33	38.29	41.23	39.56	39.40	4.26	20000	1.32	1.23	1.24
21000	15.59	15.38	15.68	15.69	15.52	15.51	0.31	32.47	39.54	40.97	34.96	4.56	21000	1.16	1.25	1.24
22000	15.79	15.58	15.91	15.91	15.76	15.76	0.33	40.75	53.70	64.06	38.07	4.85	22000	1.11	1.21	1.22
23000	16.07	15.86	16.19	16.18	16.03	16.03	0.33	36.51	45.37	57.95	33.77	5.07	23000	1.17	1.12	1.14
24000	16.34	16.17	16.46	16.47	16.31	16.31	0.31	30.73	48.29	46.38	30.48	5.41	24000	1.05	1.16	1.22
25000	16.59	16.38	16.73	16.75	16.52	16.55	0.37	41.19	46.92	45.46	40.37	5.67	25000	1.14	1.12	1.17
26000	16.81	16.63	16.95	16.95	16.74	16.75	0.32	30.10	51.08	48.41	30.10	5.96	26000	1.07	1.14	1.20
26500	16.99	16.80	17.12	17.08	16.91	16.92	0.32	38.54	44.13	44.25	35.55	5.83	26500	1.26	1.13	1.18
27000	17.12	16.92	17.26	17.24	17.04	17.05	0.33	31.72	51.56	60.00	32.54	6.08	27000	1.25	1.15	1.20
27500	17.23	17.04	17.38	17.33	17.15	17.17	0.34	32.90	41.81	42.60	31.48	6.34	27500	1.04	1.16	1.21
28000	17.35	17.15	17.49	17.45	17.25	17.26	0.35	38.84	48.05	46.29	39.30	6.46	28000	1.21	1.08	1.12

¹Total Loss = Insertion Loss + 9dB Splitter Loss



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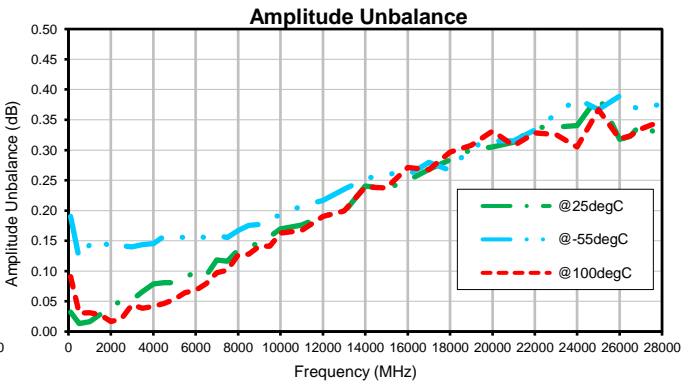
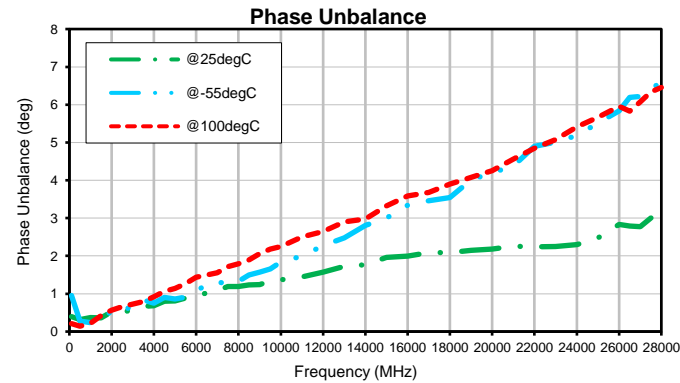
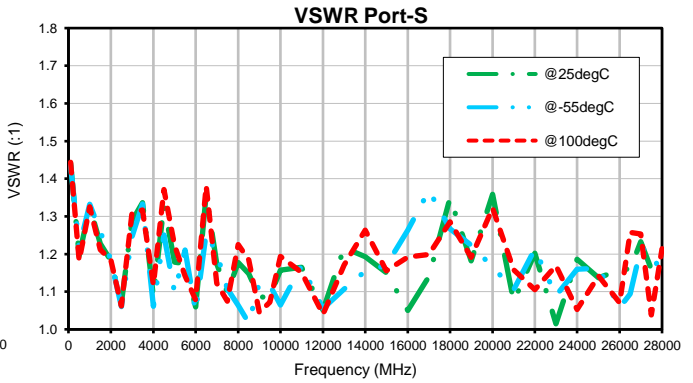
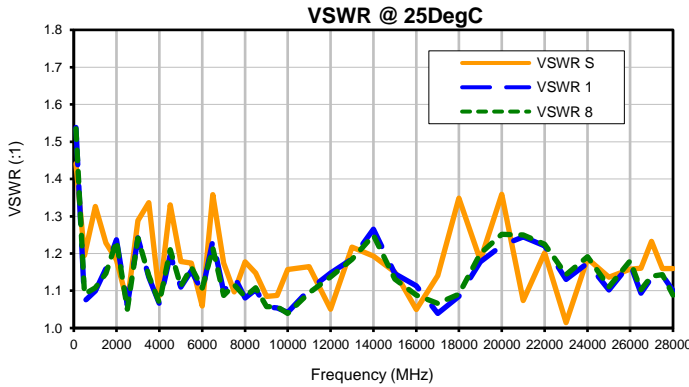
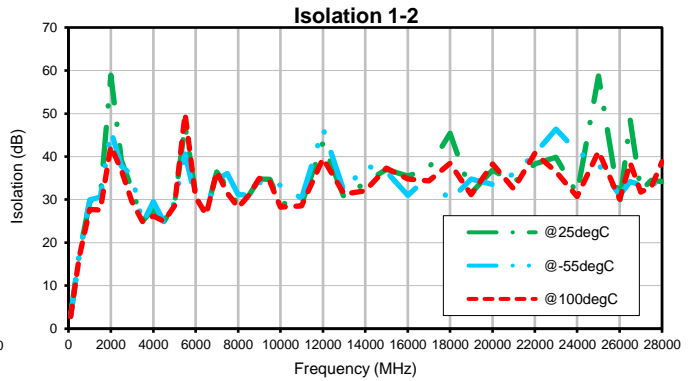
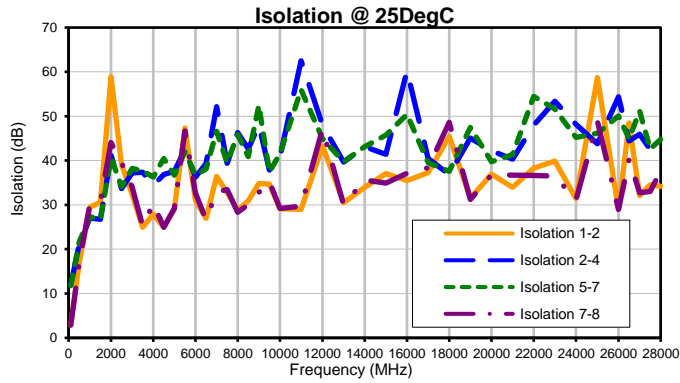
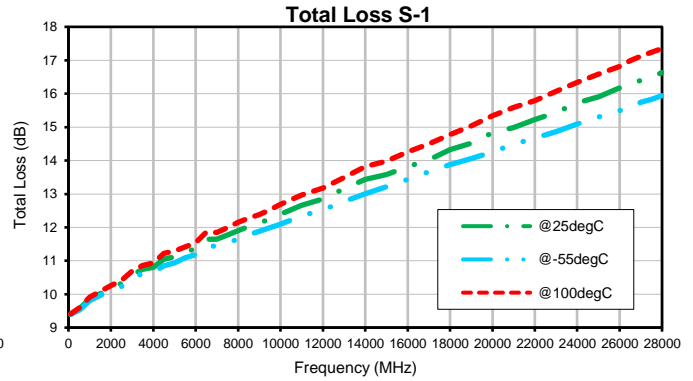
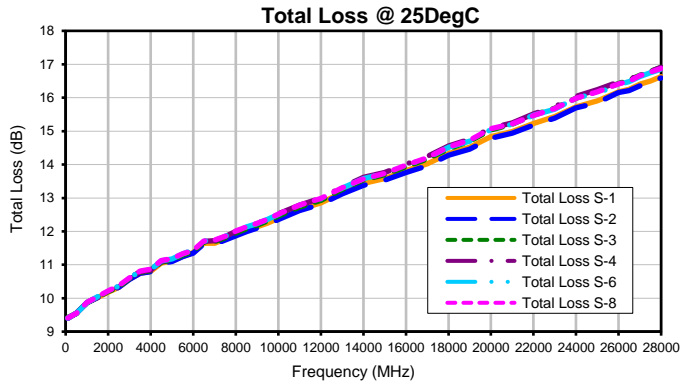


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Typical Performance Curves





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