

4 Way-0° 50Ω 500 to 26500 MHz

The Big Deal

- Super wideband, 0.5 to 26.5 GHz
- Low insertion loss, 2.7 dB typ.
- High Isolation, 34 dB typ.
- 20W power handling
- Low amplitude unbalance, 0.15 dB typ.



CASE STYLE: UU2413-1

Product Overview

Mini-Circuits' ZC4PD-5R263-S+ is a super wideband 4-way 0° splitter/combiner providing coverage from 0.5 to 26.5 GHz, supporting a wide range of applications including 5G, 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 ZC4PD-5R263-S+ comes housed in a case measuring 6.24 x 2.03 x 0.5".

Key Features

Feature	Advantages
Ultra-wideband, 0.5 to 26.5 GHz	Extremely wide frequency range supports many broadband applications in a single model.
Low insertion loss, 2.7 dB typ. at 18 GHz	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, 34 dB typ. at 18 GHz	Minimizes interference between ports.
High power handling: • 20W as a splitter at 25°C • 2W as a combiner	The ZC4PD-5R263-S+ is suitable for systems with a wide range of power requirements.
Low amplitude unbalance, 0.15 dB at 18 GHz	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

ZC4PD-5R263-S+

4 Way-0° 50Ω 500 to 26500 MHz

Maximum Ratings

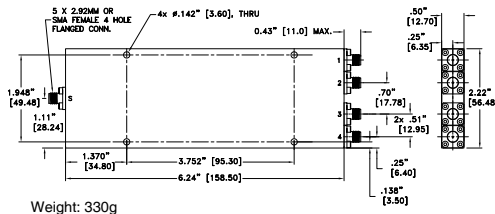
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	20W* max.
Internal Dissipation	2W max.
DC Pass	530mA

Permanent damage may occur if any of these limits are exceeded.
*Derates linearly to 14W at 100°C

Coaxial Connections

Sum Port	S
Port 1	1
Port 2	2
Port 3	3
Port 4	4

Outline Drawing



Features

- Super wideband, 500 to 26500 MHz
- Low insertion loss, 2.7 dB typ.
- Low amplitude unbalance, 0.15 dB typ.
- Excellent VSWR, 1.17:1 typ.
- High isolation, 34 dB typ.

Applications

- 5G
- Fixed satellite
- Space research
- Mobile



Generic photo used for illustration purposes only

CASE STYLE: UU2413-1

Connectors	Model
SMA-Fem	ZC4PD-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 6.0 dB	500-8000		1.3	2.4	dB
	8000-18000		2.7	4	
	18000-26500		4.1	5.2	
Isolation	500-8000	15	31	—	dB
	8000-18000	18	34	—	
	18000-26500	18	35	—	
Phase Unbalance (±) ¹	500-8000		0.8	4	Degree
	8000-18000		1.6	5	
	18000-26500		3.1	6	
Amplitude Unbalance (±) ¹	500-8000		0.11	0.4	dB
	8000-18000		0.15	0.4	
	18000-26500		0.22	0.4	
VSWR (Port S)	500-8000		1.13	1.6	:1
	8000-18000		1.17	1.5	
	18000-26500		1.17	1.6	
VSWR (Port 1-4)	500-8000		1.11	1.4	:1
	8000-18000		1.15	1.5	
	18000-26500		1.22	1.6	

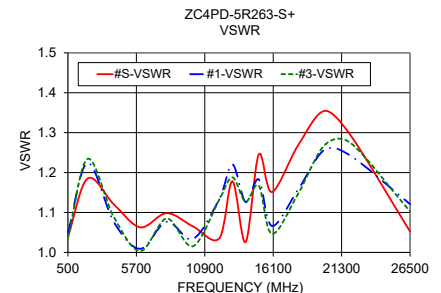
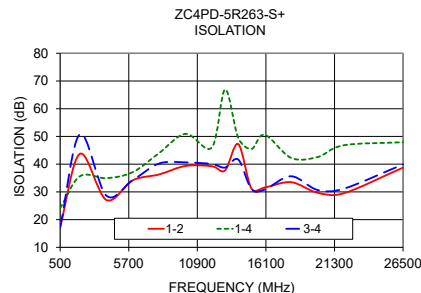
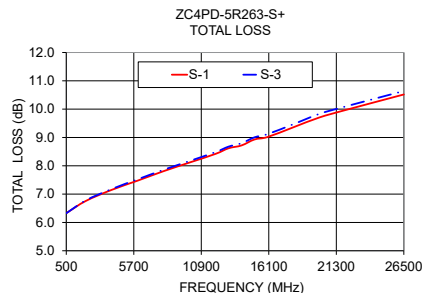
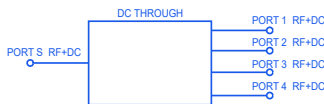
1. With reference to average

Typical Performance Data

Freq. (MHz)	Total Loss ¹ (dB)				Amp. Unb. (dB)	Isolation (dB)			Phase Unb. (deg.)	VSWR	VSWR	VSWR	VSWR	VSWR
	S-1	S-2	S-3	S-4		1-2	1-4	3-4		S	1	2	3	4
500	6.33	6.34	6.32	6.33	0.01	17.46	24.14	17.23	0.18	1.04	1.05	1.05	1.04	1.04
2000	6.76	6.78	6.78	6.79	0.03	43.73	35.64	50.79	0.28	1.18	1.22	1.22	1.23	1.24
4000	7.15	7.18	7.18	7.20	0.05	27.10	34.95	28.68	0.46	1.12	1.08	1.07	1.09	1.09
6000	7.48	7.51	7.52	7.56	0.08	34.19	37.11	34.22	0.57	1.06	1.01	1.01	1.00	1.01
8000	7.81	7.84	7.86	7.92	0.10	36.29	44.01	40.23	0.64	1.10	1.08	1.09	1.09	1.09
10000	8.12	8.14	8.17	8.24	0.12	39.35	50.93	40.65	0.69	1.07	1.03	1.04	1.02	1.01
12000	8.42	8.45	8.48	8.57	0.15	39.26	46.02	40.04	0.68	1.04	1.13	1.10	1.13	1.15
13000	8.62	8.64	8.68	8.77	0.15	37.75	66.91	38.78	0.72	1.18	1.22	1.21	1.19	1.22
14000	8.72	8.74	8.80	8.88	0.16	47.27	49.47	41.67	0.64	1.03	1.13	1.09	1.13	1.13
15000	8.93	8.95	9.00	9.10	0.17	31.21	45.48	31.05	0.60	1.25	1.18	1.17	1.17	1.18
16000	9.01	9.05	9.12	9.20	0.19	31.56	50.61	30.83	0.76	1.15	1.07	1.05	1.05	1.07
18000	9.36	9.40	9.47	9.55	0.19	33.50	42.29	35.63	0.66	1.27	1.16	1.16	1.15	1.16
20000	9.71	9.75	9.83	9.93	0.22	29.71	42.54	30.72	0.64	1.35	1.26	1.27	1.27	1.29
22000	9.97	10.04	10.09	10.21	0.24	29.51	46.82	31.14	0.64	1.29	1.24	1.28	1.27	1.28
26500	10.52	10.60	10.64	10.80	0.28	38.76	47.93	39.93	0.89	1.05	1.12	1.08	1.10	1.11

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

Electrical Schematic



Notes

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4 Way-0° Power Splitter/Combiner

ZC4PD-5R263-S+

Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0 dBm @Temperature = +25°C

FREQ.	TOTAL LOSS ¹				AMP. UNBAL.	PHASE UNBAL.	ISOLATION			VSWR				
(MHz)	(dB)				(dB)	(deg.)	(dB)			(:1)				
	S-1	S-2	S-3	S-4			1-2	1-4	3-4	S	1	2	3	4
100	6.92	6.90	6.93	6.93	0.03	0.16	3.16	12.84	3.14	2.27	1.65	1.65	1.66	1.66
500	6.33	6.34	6.32	6.33	0.01	0.18	17.46	24.14	17.23	1.04	1.05	1.05	1.04	1.04
1000	6.53	6.54	6.54	6.55	0.01	0.23	27.71	27.39	27.93	1.23	1.06	1.06	1.06	1.05
1500	6.62	6.63	6.63	6.64	0.03	0.27	28.42	35.04	28.68	1.08	1.09	1.09	1.08	1.08
2000	6.76	6.78	6.78	6.79	0.03	0.28	43.73	35.64	50.79	1.18	1.22	1.22	1.23	1.24
2500	6.83	6.85	6.86	6.88	0.04	0.34	30.60	34.81	31.82	1.02	1.11	1.10	1.10	1.11
3000	7.01	7.03	7.04	7.06	0.04	0.37	31.68	47.86	31.32	1.27	1.25	1.24	1.25	1.25
3500	7.06	7.08	7.09	7.10	0.05	0.41	29.31	33.32	27.87	1.13	1.15	1.15	1.13	1.14
4000	7.15	7.18	7.18	7.20	0.05	0.46	27.10	34.95	28.68	1.12	1.08	1.07	1.09	1.09
4500	7.23	7.26	7.27	7.29	0.06	0.47	27.73	37.60	28.22	1.11	1.12	1.13	1.13	1.13
5000	7.39	7.41	7.43	7.46	0.07	0.48	27.01	38.28	25.70	1.27	1.14	1.14	1.13	1.13
5500	7.41	7.44	7.45	7.48	0.08	0.54	33.85	37.32	36.64	1.12	1.06	1.08	1.05	1.06
6000	7.48	7.51	7.52	7.56	0.08	0.57	34.19	37.11	34.22	1.06	1.01	1.01	1.00	1.01
6500	7.61	7.64	7.65	7.69	0.08	0.59	27.89	48.11	29.69	1.21	1.09	1.12	1.11	1.10
7000	7.69	7.71	7.73	7.78	0.09	0.57	30.70	44.35	32.06	1.18	1.11	1.10	1.09	1.10
7500	7.73	7.76	7.78	7.83	0.10	0.65	38.60	37.75	37.71	1.07	1.04	1.04	1.03	1.04
8000	7.81	7.84	7.86	7.92	0.10	0.64	36.29	44.01	40.23	1.10	1.08	1.09	1.09	1.09
8500	7.93	7.96	7.98	8.04	0.10	0.70	29.77	38.34	29.41	1.23	1.13	1.15	1.12	1.11
9000	7.97	8.00	8.02	8.08	0.11	0.67	33.38	42.81	38.34	1.08	1.06	1.08	1.06	1.07
9500	8.04	8.06	8.09	8.16	0.12	0.68	41.71	40.08	43.12	1.05	1.02	1.03	1.04	1.05
10000	8.12	8.14	8.17	8.24	0.12	0.69	39.35	50.93	40.65	1.07	1.03	1.04	1.02	1.01
10500	8.21	8.23	8.27	8.34	0.14	0.69	37.04	49.42	32.71	1.15	1.05	1.04	1.06	1.06
11000	8.29	8.30	8.34	8.42	0.13	0.69	32.77	39.17	35.23	1.08	1.10	1.07	1.07	1.09
11500	8.38	8.41	8.44	8.52	0.14	0.73	34.71	43.38	35.99	1.17	1.19	1.16	1.17	1.19
12000	8.42	8.45	8.48	8.57	0.15	0.68	39.26	46.02	40.04	1.04	1.13	1.10	1.13	1.15
12500	8.51	8.53	8.58	8.67	0.15	0.71	37.39	51.06	35.95	1.11	1.19	1.15	1.17	1.20
13000	8.62	8.64	8.68	8.77	0.15	0.72	37.75	66.91	38.78	1.18	1.22	1.21	1.19	1.22
13500	8.71	8.73	8.79	8.88	0.17	0.76	26.63	41.61	27.30	1.19	1.22	1.20	1.22	1.24
14000	8.72	8.74	8.80	8.88	0.16	0.64	47.27	49.47	41.67	1.03	1.13	1.09	1.13	1.13
14500	8.83	8.85	8.92	9.01	0.18	0.64	40.18	41.70	37.36	1.22	1.20	1.16	1.18	1.19
15000	8.93	8.95	9.00	9.10	0.17	0.60	31.21	45.48	31.05	1.25	1.18	1.17	1.17	1.18
15500	8.98	9.00	9.09	9.18	0.20	0.65	30.87	43.79	30.15	1.08	1.18	1.16	1.19	1.20
16000	9.01	9.05	9.12	9.20	0.19	0.76	31.56	50.61	30.83	1.15	1.07	1.05	1.05	1.07
16500	9.12	9.15	9.22	9.30	0.18	0.62	37.60	44.65	38.43	1.25	1.10	1.10	1.08	1.10
17000	9.19	9.24	9.30	9.38	0.19	0.66	33.29	38.38	33.88	1.27	1.07	1.09	1.04	1.04
17500	9.22	9.26	9.34	9.42	0.20	0.58	33.55	48.18	34.43	1.07	1.04	1.05	1.04	1.04
18000	9.36	9.40	9.47	9.55	0.19	0.66	33.50	42.29	35.63	1.27	1.16	1.16	1.15	1.16
18500	9.38	9.42	9.50	9.59	0.21	0.68	33.73	43.07	34.90	1.18	1.14	1.13	1.13	1.15
19000	9.50	9.54	9.61	9.70	0.21	0.75	31.72	39.72	31.64	1.24	1.22	1.22	1.20	1.23
19500	9.54	9.57	9.67	9.76	0.22	0.64	35.29	52.44	36.98	1.18	1.19	1.18	1.20	1.23
20000	9.71	9.75	9.83	9.93	0.22	0.64	29.71	42.54	30.72	1.35	1.26	1.27	1.27	1.29
20500	9.68	9.74	9.81	9.90	0.22	0.60	43.76	39.58	39.70	1.10	1.22	1.24	1.22	1.22
21000	9.75	9.81	9.88	9.98	0.22	0.62	34.08	45.50	39.29	1.10	1.20	1.23	1.21	1.21
21500	9.82	9.89	9.97	10.07	0.25	0.68	36.09	50.24	38.57	1.11	1.16	1.20	1.22	1.23
22000	9.97	10.04	10.09	10.21	0.24	0.64	29.51	46.82	31.14	1.29	1.24	1.28	1.27	1.28
22500	9.95	10.03	10.08	10.19	0.24	0.61	32.62	42.61	38.59	1.04	1.18	1.21	1.19	1.19
23000	10.02	10.09	10.16	10.28	0.26	0.65	42.93	51.59	39.07	1.06	1.13	1.14	1.17	1.16
23500	10.11	10.17	10.24	10.36	0.25	0.66	33.72	50.03	40.43	1.05	1.15	1.15	1.19	1.18
24000	10.22	10.28	10.35	10.48	0.26	0.66	33.63	49.93	32.12	1.19	1.17	1.16	1.21	1.18
24500	10.25	10.33	10.37	10.51	0.26	0.75	32.32	52.10	33.98	1.01	1.11	1.06	1.11	1.11
25000	10.37	10.43	10.49	10.63	0.26	0.80	32.07	49.54	33.38	1.17	1.20	1.14	1.18	1.20
25500	10.44	10.52	10.59	10.73	0.29	0.79	33.90	48.46	33.97	1.06	1.14	1.08	1.16	1.16
26000	10.45	10.54	10.59	10.73	0.28	0.79	38.47	51.62	35.77	1.06	1.15	1.09	1.13	1.13
26500	10.52	10.60	10.64	10.80	0.28	0.89	38.76	47.93	39.93	1.05	1.12	1.08	1.10	1.11
27000	10.63	10.76	10.79	10.93	0.29	0.87	29.88	50.30	29.92	1.17	1.18	1.12	1.17	1.16

¹Total Loss = Insertion Loss + 6dB 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

REV. OR
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4 Way-0° Power Splitter/Combiner

ZC4PD-5R263-S+

Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0 dBm @Temperature = -55°C

FREQ.	TOTAL LOSS ¹				AMP. UNBAL.	PHASE UNBAL.	ISOLATION			VSWR				
(MHz)	(dB)				(dB)	(deg.)	(dB)			(:1)				
	S-1	S-2	S-3	S-4			1-2	1-4	3-4	S	1	2	3	4
100	6.89	6.89	6.88	6.88	0.01	0.05	3.15	12.68	3.14	2.27	1.64	1.64	1.64	1.64
500	6.31	6.31	6.31	6.31	0.01	0.30	17.41	23.84	17.21	1.04	1.05	1.05	1.03	1.03
1000	6.50	6.51	6.51	6.52	0.02	0.45	27.80	27.15	27.91	1.24	1.05	1.04	1.04	1.04
1500	6.57	6.58	6.58	6.60	0.03	0.58	27.54	34.77	27.86	1.08	1.10	1.10	1.09	1.09
2000	6.70	6.71	6.72	6.74	0.04	0.74	43.99	35.06	52.33	1.18	1.21	1.20	1.22	1.22
2500	6.76	6.78	6.79	6.82	0.05	0.87	30.06	35.24	30.87	1.01	1.10	1.10	1.09	1.09
3000	6.93	6.95	6.96	6.99	0.06	1.01	33.10	48.91	32.46	1.26	1.23	1.23	1.25	1.23
3500	6.97	6.98	6.99	7.02	0.06	1.00	30.18	32.87	28.53	1.10	1.13	1.13	1.12	1.11
4000	7.06	7.08	7.09	7.12	0.06	1.07	27.78	34.83	29.85	1.11	1.06	1.07	1.08	1.08
4500	7.12	7.14	7.17	7.20	0.08	0.94	28.17	38.29	28.29	1.07	1.08	1.11	1.11	1.10
5000	7.28	7.31	7.33	7.38	0.10	0.97	26.91	38.54	25.51	1.30	1.13	1.14	1.15	1.12
5500	7.29	7.31	7.33	7.38	0.10	1.15	33.63	36.33	35.53	1.11	1.05	1.07	1.06	1.04
6000	7.35	7.38	7.40	7.46	0.10	1.29	37.91	37.97	35.35	1.05	1.03	1.01	1.01	1.01
6500	7.46	7.49	7.50	7.57	0.11	1.45	29.83	48.60	32.28	1.16	1.06	1.10	1.10	1.09
7000	7.56	7.59	7.61	7.68	0.12	1.49	28.23	42.67	29.20	1.24	1.12	1.11	1.12	1.10
7500	7.58	7.61	7.63	7.71	0.13	1.71	43.24	36.16	42.57	1.08	1.03	1.02	1.04	1.03
8000	7.66	7.68	7.71	7.79	0.13	1.95	34.81	43.85	38.23	1.12	1.06	1.08	1.10	1.08
8500	7.76	7.78	7.80	7.89	0.13	2.17	29.84	37.43	29.67	1.20	1.09	1.12	1.11	1.07
9000	7.82	7.85	7.86	7.96	0.13	2.16	30.86	39.36	34.66	1.15	1.06	1.08	1.08	1.06
9500	7.87	7.89	7.91	8.02	0.15	2.45	40.89	39.54	40.77	1.06	1.00	1.03	1.05	1.03
10000	7.94	7.97	7.99	8.10	0.16	2.64	32.43	53.53	35.46	1.11	1.02	1.04	1.05	1.01
10500	8.03	8.05	8.08	8.20	0.17	2.62	37.65	46.80	33.84	1.18	1.09	1.07	1.08	1.09
11000	8.09	8.10	8.13	8.25	0.17	2.71	33.70	37.84	36.66	1.08	1.10	1.07	1.05	1.09
11500	8.19	8.20	8.23	8.36	0.17	2.53	39.17	44.11	39.41	1.17	1.20	1.16	1.15	1.20
12000	8.22	8.24	8.26	8.39	0.17	2.06	36.81	45.17	35.29	1.03	1.12	1.09	1.10	1.14
12500	8.32	8.33	8.36	8.50	0.18	1.34	41.14	48.11	39.17	1.14	1.20	1.16	1.17	1.21
13000	8.37	8.39	8.40	8.55	0.18	1.38	35.86	52.17	39.63	1.07	1.17	1.17	1.13	1.18
13500	8.51	8.54	8.58	8.72	0.20	1.45	27.57	41.55	28.22	1.29	1.22	1.22	1.21	1.24
14000	8.50	8.51	8.55	8.68	0.19	1.54	37.18	58.01	35.87	1.09	1.14	1.11	1.13	1.14
14500	8.59	8.61	8.64	8.78	0.20	1.75	36.25	43.14	36.09	1.19	1.18	1.16	1.15	1.17
15000	8.63	8.66	8.67	8.82	0.19	1.84	38.50	44.17	36.39	1.06	1.12	1.13	1.10	1.13
15500	8.76	8.78	8.83	8.98	0.22	2.09	28.57	43.61	28.26	1.26	1.20	1.20	1.21	1.22
16000	8.76	8.79	8.84	9.00	0.23	1.96	33.86	54.84	32.32	1.16	1.12	1.11	1.11	1.14
16500	8.85	8.89	8.90	9.06	0.21	2.13	36.12	46.52	34.24	1.25	1.10	1.12	1.07	1.09
17000	8.90	8.93	8.95	9.11	0.21	2.21	41.32	37.28	39.76	1.21	1.05	1.07	1.02	1.01
17500	8.97	8.99	9.01	9.17	0.21	2.38	29.70	47.46	31.34	1.14	1.02	1.03	1.01	1.01
18000	9.02	9.05	9.08	9.25	0.23	2.38	37.62	43.89	38.48	1.08	1.14	1.12	1.13	1.13
18500	9.17	9.19	9.21	9.39	0.23	2.34	30.25	42.02	30.45	1.35	1.19	1.17	1.17	1.18
19000	9.23	9.25	9.27	9.47	0.24	2.57	44.01	38.85	38.38	1.35	1.26	1.23	1.24	1.26
19500	9.22	9.25	9.28	9.48	0.26	2.80	36.81	45.27	39.70	1.12	1.20	1.18	1.20	1.24
20000	9.31	9.35	9.36	9.56	0.25	3.17	35.82	45.16	38.97	1.08	1.23	1.23	1.24	1.26
20500	9.43	9.48	9.49	9.67	0.24	3.31	33.20	38.19	32.64	1.31	1.26	1.28	1.25	1.24
21000	9.46	9.51	9.52	9.71	0.25	3.51	36.22	46.44	38.54	1.24	1.24	1.26	1.24	1.24
21500	9.50	9.55	9.57	9.77	0.28	3.50	35.83	47.12	37.61	1.16	1.18	1.22	1.23	1.25
22000	9.57	9.63	9.64	9.85	0.29	3.54	31.19	51.35	34.86	1.10	1.21	1.24	1.24	1.25
22500	9.67	9.74	9.72	9.92	0.25	3.55	31.87	40.85	33.95	1.22	1.25	1.29	1.24	1.24
23000	9.67	9.73	9.74	9.95	0.28	3.48	41.63	50.65	47.90	1.11	1.14	1.17	1.17	1.18
23500	9.76	9.83	9.83	10.06	0.29	3.54	33.82	50.06	39.16	1.17	1.14	1.16	1.18	1.19
24000	9.83	9.90	9.91	10.13	0.30	3.62	37.98	45.81	36.13	1.11	1.17	1.17	1.18	1.18
24500	9.95	10.01	10.01	10.23	0.29	3.71	28.44	49.74	29.93	1.15	1.13	1.13	1.12	1.14
25000	9.93	10.01	10.00	10.22	0.29	3.89	41.05	49.09	38.63	1.05	1.11	1.05	1.08	1.12
25500	10.05	10.13	10.14	10.37	0.31	4.03	30.89	51.75	32.52	1.11	1.13	1.08	1.13	1.14
26000	10.06	10.14	10.15	10.37	0.31	4.10	38.85	46.59	34.52	1.06	1.11	1.06	1.10	1.11
26500	10.11	10.20	10.20	10.42	0.31	4.18	37.87	57.26	38.99	1.05	1.09	1.04	1.06	1.07
27000	10.21	10.32	10.31	10.53	0.32	4.67	32.46	52.96	30.19	1.13	1.12	1.10	1.10	1.12

¹Total Loss = Insertion Loss + 6dB Splitter Loss



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4 Way-0° Power Splitter/Combiner

ZC4PD-5R263-S+

Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0 dBm @Temperature = +100°C

FREQ.	TOTAL LOSS ¹				AMP. UNBAL.	PHASE UNBAL.	ISOLATION			VSWR				
(MHz)	(dB)				(dB)	(deg.)	(dB)			(:1)				
	S-1	S-2	S-3	S-4			1-2	1-4	3-4	S	1	2	3	4
100	6.90	6.90	6.96	6.96	0.06	0.14	3.13	12.98	3.14	2.27	1.67	1.67	1.69	1.69
500	6.35	6.35	6.33	6.33	0.02	0.09	16.30	23.33	15.83	1.05	1.02	1.02	1.02	1.02
1000	6.55	6.55	6.55	6.56	0.00	0.10	25.55	25.99	25.82	1.22	1.11	1.11	1.11	1.11
1500	6.64	6.65	6.65	6.66	0.02	0.16	26.32	33.26	26.58	1.07	1.08	1.09	1.08	1.08
2000	6.79	6.80	6.80	6.81	0.03	0.22	38.43	34.50	42.31	1.18	1.25	1.24	1.26	1.26
2500	6.87	6.88	6.88	6.90	0.03	0.29	30.04	33.05	30.90	1.04	1.12	1.11	1.11	1.11
3000	7.04	7.06	7.06	7.08	0.04	0.33	28.55	41.83	29.03	1.26	1.26	1.25	1.26	1.26
3500	7.10	7.12	7.12	7.15	0.04	0.42	27.26	32.33	26.15	1.14	1.17	1.16	1.15	1.15
4000	7.20	7.22	7.22	7.24	0.04	0.49	26.44	34.32	27.84	1.14	1.08	1.08	1.09	1.10
4500	7.29	7.33	7.33	7.35	0.06	0.58	27.10	36.72	27.77	1.17	1.15	1.16	1.15	1.15
5000	7.42	7.45	7.46	7.49	0.07	0.68	27.45	37.69	25.97	1.23	1.12	1.12	1.11	1.10
5500	7.46	7.49	7.49	7.53	0.07	0.79	34.36	37.74	36.80	1.10	1.06	1.08	1.05	1.05
6000	7.54	7.57	7.57	7.61	0.07	0.86	31.83	35.85	32.22	1.06	1.00	1.02	1.01	1.01
6500	7.69	7.72	7.71	7.75	0.06	0.95	26.84	45.38	28.26	1.24	1.10	1.13	1.11	1.11
7000	7.74	7.77	7.77	7.82	0.09	1.01	32.31	46.54	33.67	1.12	1.08	1.07	1.06	1.07
7500	7.80	7.83	7.84	7.89	0.09	1.11	35.80	39.25	35.60	1.05	1.03	1.02	1.02	1.03
8000	7.89	7.92	7.93	7.98	0.10	1.17	36.64	44.54	41.71	1.07	1.06	1.07	1.07	1.07
8500	8.03	8.06	8.06	8.12	0.09	1.23	30.80	38.53	29.64	1.25	1.14	1.16	1.12	1.12
9000	8.06	8.09	8.09	8.15	0.09	1.34	34.69	44.30	40.33	1.02	1.04	1.06	1.04	1.05
9500	8.14	8.16	8.17	8.24	0.11	1.42	44.58	39.55	48.00	1.06	1.01	1.03	1.04	1.04
10000	8.22	8.25	8.26	8.33	0.11	1.49	47.44	48.12	50.54	1.05	1.04	1.02	1.02	1.03
10500	8.31	8.34	8.36	8.44	0.13	1.59	36.27	52.98	32.31	1.12	1.05	1.04	1.05	1.05
11000	8.40	8.42	8.44	8.52	0.12	1.65	33.77	40.53	35.71	1.08	1.13	1.09	1.10	1.11
11500	8.50	8.52	8.53	8.62	0.12	1.66	32.85	43.68	34.67	1.14	1.20	1.17	1.18	1.20
12000	8.56	8.58	8.59	8.68	0.13	1.75	38.79	45.74	40.57	1.07	1.15	1.11	1.15	1.17
12500	8.65	8.66	8.68	8.77	0.13	1.76	36.31	53.38	35.25	1.08	1.18	1.14	1.17	1.19
13000	8.79	8.81	8.83	8.93	0.14	1.83	34.46	62.23	34.33	1.25	1.26	1.24	1.23	1.25
13500	8.82	8.85	8.88	8.98	0.16	1.95	27.03	41.18	27.64	1.12	1.20	1.17	1.20	1.22
14000	8.87	8.90	8.93	9.02	0.15	2.02	44.85	46.59	42.57	1.05	1.13	1.09	1.14	1.14
14500	8.97	8.99	9.02	9.13	0.16	2.02	53.74	40.58	40.84	1.17	1.19	1.14	1.17	1.19
15000	9.12	9.15	9.18	9.28	0.16	2.05	28.76	45.58	29.26	1.33	1.21	1.19	1.21	1.21
15500	9.12	9.15	9.20	9.31	0.19	2.16	34.02	42.58	32.56	1.10	1.16	1.14	1.17	1.18
16000	9.21	9.24	9.24	9.36	0.15	2.20	30.10	47.14	29.87	1.19	1.05	1.04	1.05	1.06
16500	9.28	9.32	9.33	9.45	0.17	2.26	34.21	43.18	38.45	1.23	1.05	1.05	1.05	1.08
17000	9.38	9.42	9.41	9.54	0.16	2.30	31.38	38.88	32.36	1.23	1.04	1.07	1.03	1.03
17500	9.42	9.46	9.47	9.59	0.18	2.43	35.81	45.49	35.99	1.08	1.09	1.08	1.06	1.07
18000	9.57	9.61	9.62	9.75	0.18	2.48	31.54	40.89	33.70	1.34	1.16	1.17	1.15	1.16
18500	9.64	9.68	9.68	9.81	0.17	2.56	39.42	43.23	44.68	1.31	1.22	1.21	1.19	1.21
19000	9.67	9.71	9.71	9.85	0.18	2.61	30.97	39.95	31.09	1.10	1.21	1.20	1.18	1.21
19500	9.76	9.79	9.80	9.95	0.19	2.64	43.87	49.24	41.64	1.07	1.22	1.20	1.21	1.24
20000	9.92	9.96	9.97	10.12	0.21	2.61	29.81	41.64	29.22	1.35	1.25	1.26	1.24	1.28
20500	9.94	10.00	10.00	10.14	0.20	2.77	38.27	40.81	35.17	1.25	1.25	1.26	1.24	1.24
21000	9.99	10.05	10.04	10.19	0.20	2.85	40.34	43.77	49.92	1.13	1.20	1.22	1.20	1.21
21500	10.09	10.16	10.14	10.30	0.21	2.89	31.05	49.31	34.64	1.10	1.20	1.23	1.23	1.24
22000	10.18	10.25	10.23	10.40	0.21	2.97	33.63	45.42	32.33	1.20	1.22	1.26	1.23	1.27
22500	10.20	10.28	10.27	10.43	0.22	3.12	33.60	44.59	41.46	1.08	1.16	1.19	1.17	1.18
23000	10.31	10.39	10.38	10.54	0.23	3.17	37.39	47.49	36.29	1.15	1.18	1.19	1.19	1.19
23500	10.41	10.48	10.48	10.64	0.23	3.27	30.71	49.87	35.58	1.16	1.18	1.19	1.21	1.21
24000	10.44	10.52	10.51	10.68	0.24	3.35	34.89	52.95	32.71	1.07	1.13	1.13	1.16	1.16
24500	10.54	10.61	10.60	10.76	0.23	3.42	37.75	51.33	39.02	1.07	1.17	1.11	1.15	1.15
25000	10.63	10.70	10.70	10.88	0.25	3.43	32.20	47.11	33.27	1.09	1.19	1.14	1.18	1.21
25500	10.73	10.82	10.80	10.98	0.25	3.53	32.30	47.59	33.19	1.13	1.17	1.11	1.17	1.18
26000	10.75	10.84	10.84	11.00	0.25	3.62	38.95	55.71	37.57	1.09	1.15	1.09	1.13	1.14
26500	10.86	10.95	10.93	11.11	0.25	3.60	33.45	45.01	33.52	1.17	1.17	1.12	1.15	1.16
27000	10.92	11.02	11.01	11.18	0.26	3.68	35.46	47.13	34.82	1.04	1.15	1.08	1.13	1.14

¹Total Loss = Insertion Loss + 6dB Splitter Loss



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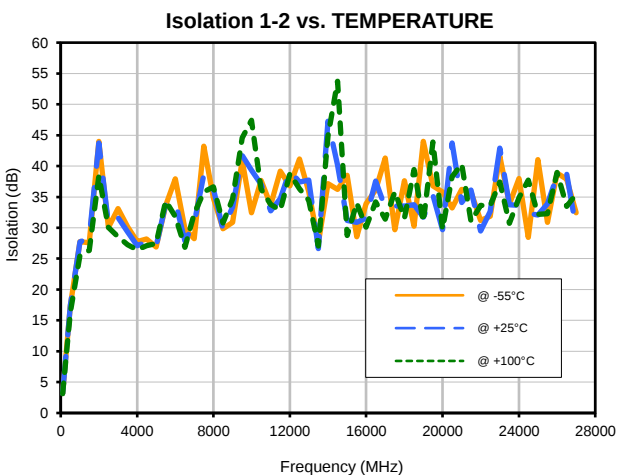
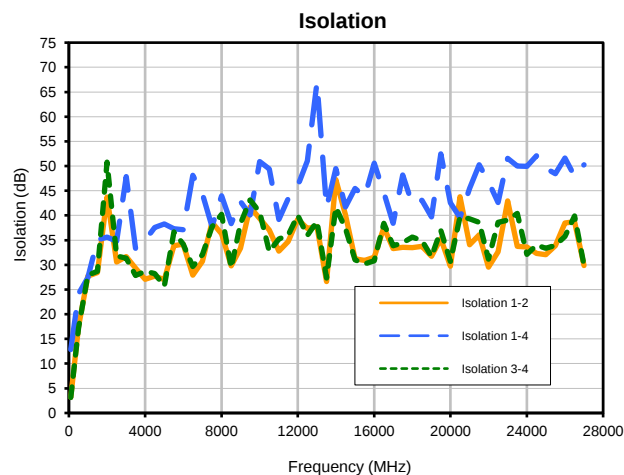
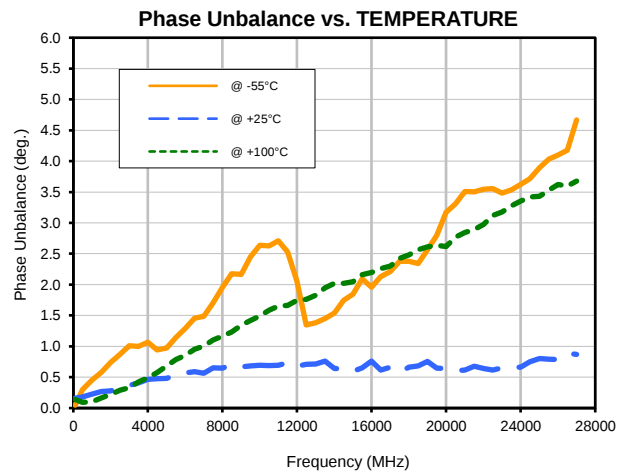
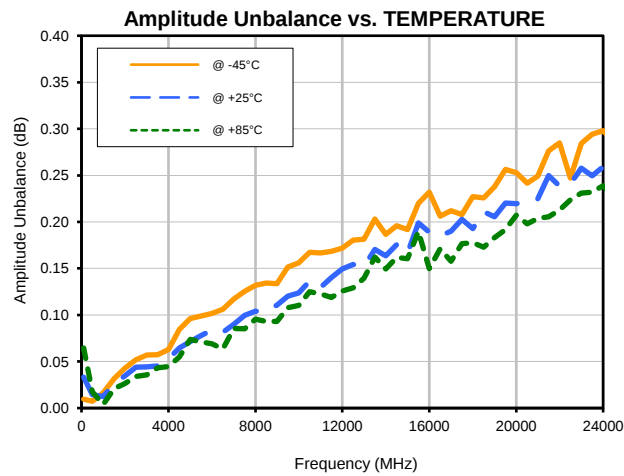
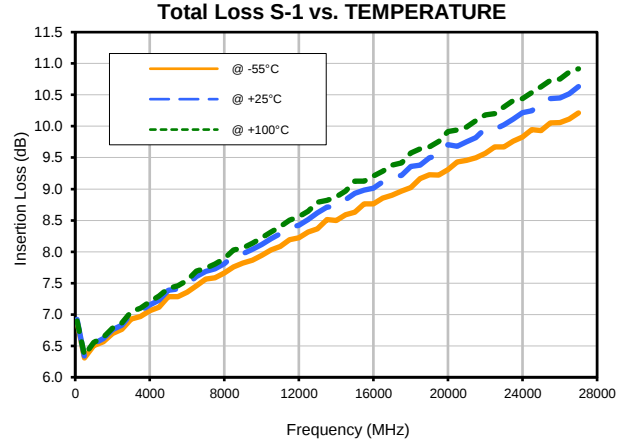
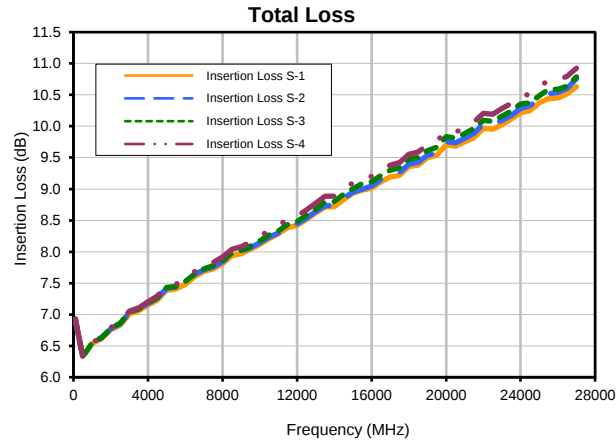
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4 Way-0° Power Splitter/Combiner

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Typical Performance Curves



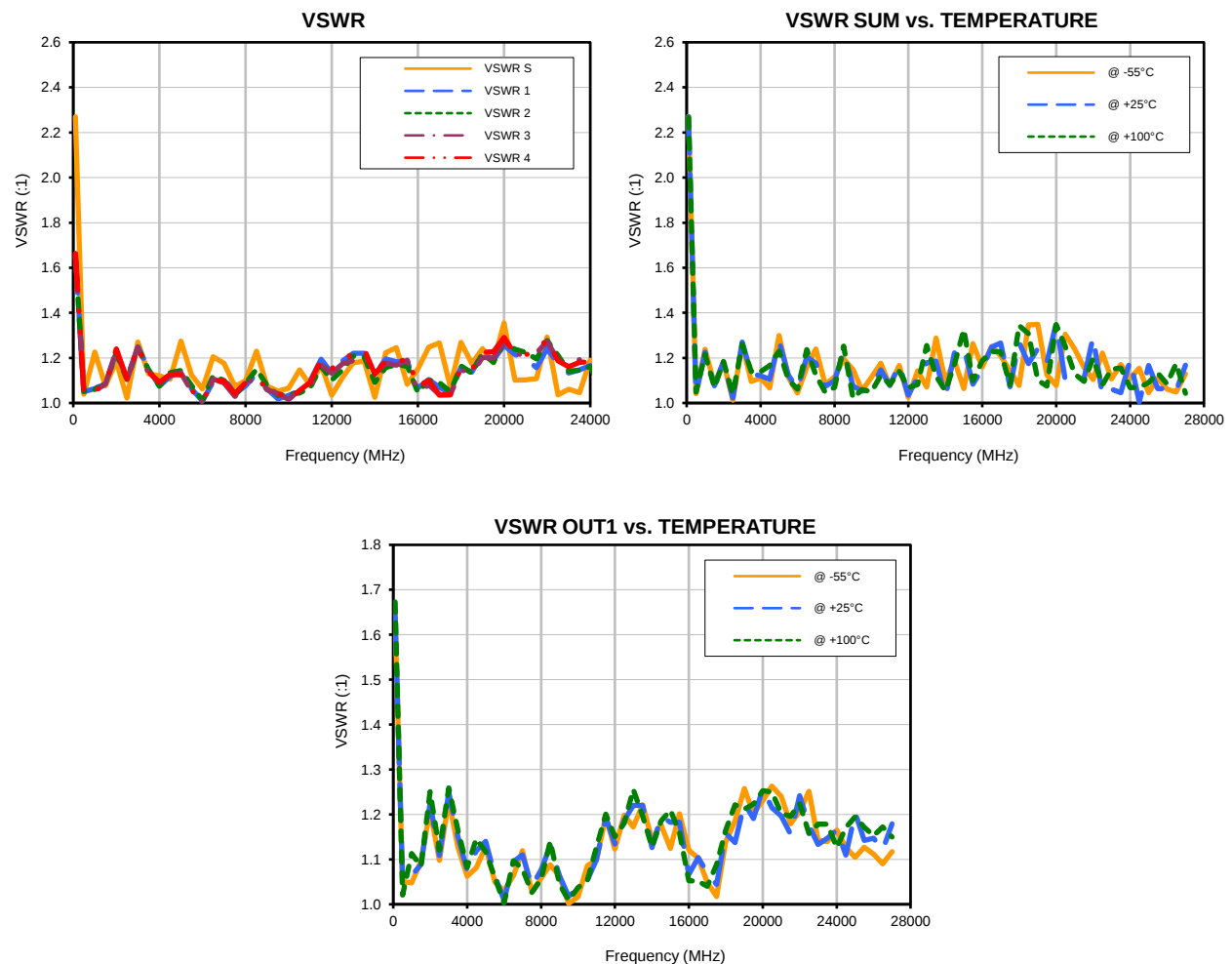
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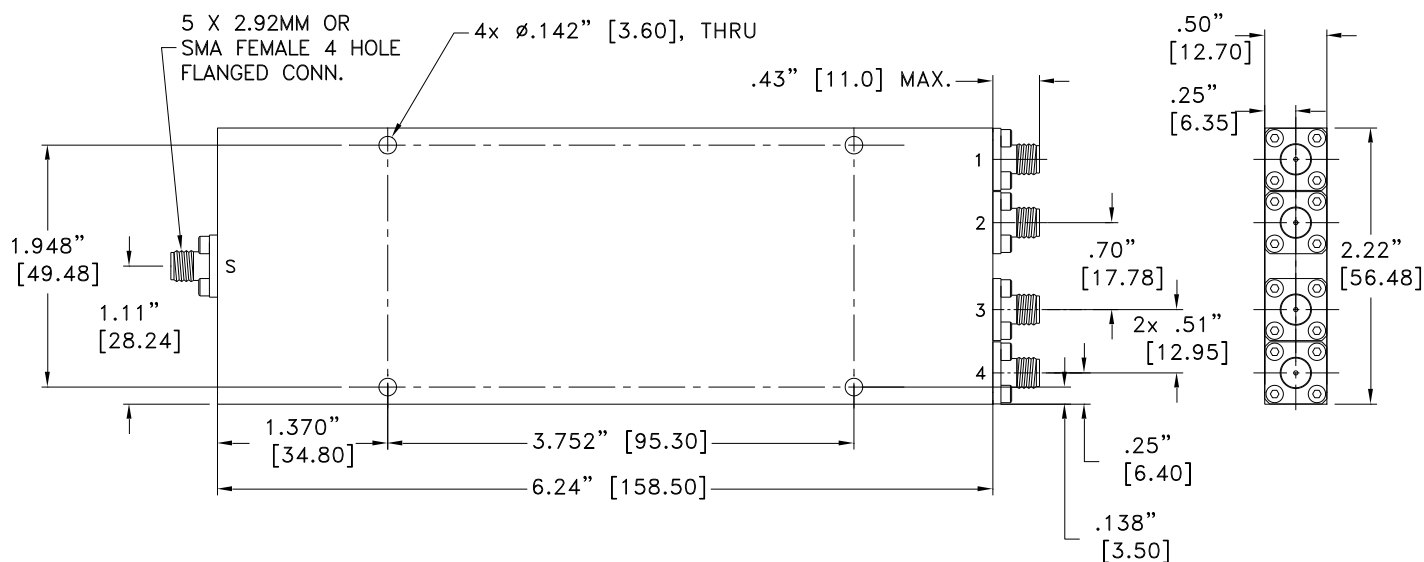
4 Way-0° Power Splitter/Combiner ZC4PD-5R263-S+

Typical Performance Curves



Outline Dimensions

UU2413-1



Weight: 340 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