

DC Pass, High Power

Power Splitter/Combiner ZC4PD-02263-S+

4 Way-0° 50Ω 2000 to 26500 MHz

The Big Deal

- Super wideband, 2 to 26.5 GHz
- Low insertion loss, 1.5 dB typ.
- High Isolation, 31 dB typ.
- 20W power handling
- Low amplitude unbalance, 0.07 dB typ.



CASE STYLE: UU2625

Product Overview

Mini-Circuits' ZC4PD-02263-S+ is a super wideband 4-way 0° splitter/combiner providing coverage from 2 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-02263-S+ comes housed in a case measuring 2.03 x 3.12 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, 1.5 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 • 1.2W as a combiner	The ZC4PD-02263-S+ is suitable for systems with a wide range of power requirements.
Low amplitude unbalance, 0.07 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

4 Way-0° 50Ω 2000 to 26500 MHz

ZC4PD-02263-S+



Generic photo used for illustration purposes only

CASE STYLE: UU2625

Connectors Model
SMA-Fem ZC4PD-02263-S+

+RoHS Compliant

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

Maximum Ratings

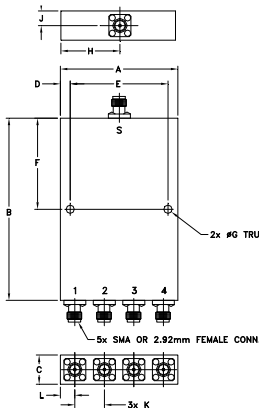
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	20W* max.
Internal Dissipation	1.2W max.

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

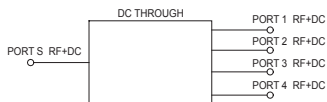
Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
2.03	3.12	.50	.17	1.690	1.56	.142
51.56	79.25	12.70	4.32	42.93	39.62	3.61
H	J	K	L			
1.02	.25	.512	.25			
25.91	6.35	13.00	6.35			
				wt		
				grams		
				160		

Electrical Schematic



Features

- Super wideband, 2000 to 26500 MHz
- Low insertion loss, 1.5 dB typ.
- Low amplitude unbalance, 0.07 dB typ.
- Excellent VSWR, 1.11:1 typ.
- High isolation, 31 dB typ.

Applications

- 5G
- Fixed satellite
- Space research
- Mobile

Electrical Specifications at 25°C

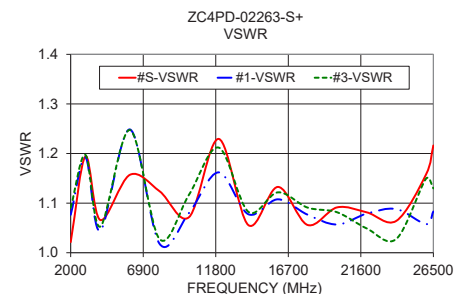
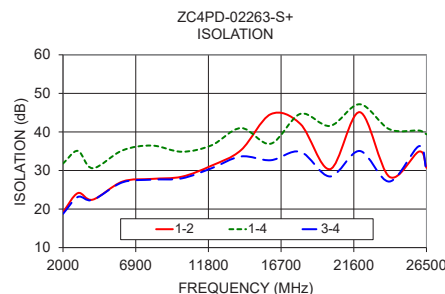
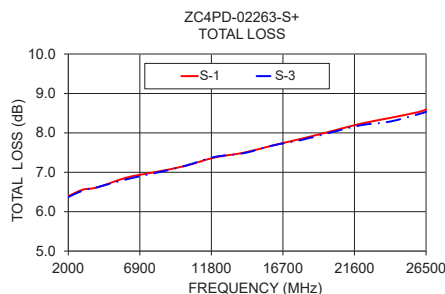
Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range	2000 - 8000	2000	—	26500	MHz
Insertion Loss Above 6.0 dB	8000 - 18000	—	0.7	1.3	dB
	18000 - 26500	—	1.5	2.2	dB
		—	2.2	2.7	dB
Isolation	2000 - 8000	17	27	—	dB
	8000 - 18000	18	31	—	dB
	18000 - 26500	18	34	—	dB
Phase Unbalance (±)¹	2000 - 8000	—	0.6	3.0	Degree
	8000 - 18000	—	1.5	4.0	Degree
	18000 - 26500	—	2.5	5.0	Degree
Amplitude Unbalance (±)¹	2000 - 8000	—	0.04	0.2	dB
	8000 - 18000	—	0.07	0.3	dB
	18000 - 26500	—	0.10	0.4	dB
VSWR (Port S)	2000 - 8000	—	1.11	1.4	:1
	8000 - 18000	—	1.11	1.5	:1
	18000 - 26500	—	1.10	1.6	:1
VSWR (Port 1-4)	2000 - 8000	—	1.11	1.4	:1
	8000 - 18000	—	1.10	1.5	:1
	18000 - 26500	—	1.10	1.5	:1

1. With reference to average.

Typical Performance Data

Freq. (MHz)	Total Loss² (dB)				Amp. Unb. (dB)	Isolation (dB)			Phase Unb. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3	VSWR 4
	S-1	S-2	S-3	S-4		1-2	1-4	3-4						
2000	6.39	6.38	6.37	6.40	0.03	19.23	31.81	18.76	0.26	1.02	1.08	1.08	1.09	1.10
3000	6.56	6.53	6.53	6.57	0.04	24.14	35.09	23.14	0.33	1.19	1.19	1.19	1.20	1.21
4000	6.62	6.59	6.62	6.64	0.04	22.44	30.59	22.36	0.35	1.07	1.04	1.04	1.05	1.07
6000	6.86	6.82	6.82	6.85	0.04	27.12	35.21	26.92	0.39	1.16	1.25	1.24	1.25	1.23
8000	7.01	6.97	6.98	7.03	0.06	27.83	36.47	27.63	0.58	1.12	1.02	1.03	1.03	1.06
10000	7.16	7.13	7.16	7.19	0.06	28.39	34.87	27.96	0.68	1.07	1.08	1.11	1.12	1.12
12000	7.37	7.35	7.39	7.40	0.05	31.24	36.51	30.57	0.84	1.23	1.16	1.19	1.21	1.20
14000	7.50	7.46	7.48	7.50	0.04	35.29	41.01	33.65	0.99	1.06	1.08	1.09	1.08	1.09
16000	7.68	7.62	7.68	7.69	0.07	44.61	36.95	32.67	1.13	1.13	1.11	1.11	1.12	1.10
18000	7.85	7.79	7.82	7.84	0.06	42.07	44.69	34.86	1.31	1.06	1.08	1.05	1.09	1.07
20000	8.04	7.98	8.01	8.02	0.06	30.35	41.56	28.46	1.35	1.09	1.06	1.02	1.08	1.06
22000	8.23	8.16	8.19	8.22	0.07	45.13	47.18	35.06	1.45	1.08	1.08	1.08	1.05	1.06
24000	8.38	8.30	8.28	8.31	0.09	28.37	40.70	27.14	1.55	1.06	1.09	1.08	1.03	1.05
26000	8.53	8.46	8.48	8.51	0.07	34.92	40.37	36.32	1.68	1.16	1.06	1.11	1.15	1.16
26500	8.59	8.53	8.53	8.56	0.06	30.69	39.39	29.76	1.79	1.22	1.08	1.14	1.13	1.13

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



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4 Way-0° Power Splitter/Combiner

ZC4PD-02263-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
10	7.94	7.97	7.95	7.95	0.03	0.29	7.78	8.06	7.77	3.95	3.90	3.85	3.89	3.89
50	7.92	7.95	7.93	7.93	0.03	0.05	5.74	8.86	5.73	3.81	3.27	3.25	3.28	3.27
100	7.72	7.75	7.73	7.73	0.02	0.13	3.79	10.33	3.78	3.47	2.48	2.46	2.48	2.48
500	6.62	6.62	6.59	6.60	0.03	0.12	6.74	12.29	6.75	1.83	1.49	1.49	1.49	1.49
1000	6.41	6.43	6.39	6.40	0.04	0.20	11.02	23.12	11.49	1.42	1.14	1.14	1.14	1.14
1500	6.41	6.43	6.38	6.42	0.05	0.20	18.98	38.81	19.61	1.28	1.25	1.25	1.19	1.20
2000	6.40	6.43	6.38	6.41	0.06	0.18	19.63	32.29	20.94	1.01	1.13	1.12	1.06	1.08
2500	6.46	6.50	6.44	6.47	0.05	0.23	26.01	34.05	30.02	1.03	1.18	1.20	1.15	1.15
3000	6.56	6.58	6.53	6.57	0.05	0.21	22.87	36.67	24.85	1.18	1.18	1.17	1.18	1.18
3500	6.60	6.62	6.57	6.62	0.05	0.18	27.73	31.74	26.30	1.15	1.20	1.19	1.17	1.18
4000	6.62	6.66	6.60	6.63	0.05	0.18	23.04	29.91	22.45	1.04	1.07	1.06	1.03	1.04
4500	6.71	6.73	6.68	6.73	0.05	0.19	22.93	34.11	22.80	1.16	1.14	1.10	1.11	1.13
5000	6.76	6.77	6.73	6.78	0.05	0.30	36.09	41.20	37.44	1.18	1.23	1.19	1.20	1.21
5500	6.77	6.79	6.76	6.79	0.03	0.23	27.49	34.70	29.22	1.05	1.24	1.22	1.23	1.22
6000	6.85	6.89	6.85	6.88	0.04	0.30	25.15	34.22	27.26	1.18	1.26	1.27	1.28	1.26
6500	6.90	6.91	6.87	6.92	0.05	0.31	21.42	33.59	21.69	1.20	1.09	1.06	1.08	1.07
7000	6.91	6.91	6.89	6.93	0.03	0.33	34.65	34.05	33.03	1.07	1.16	1.11	1.11	1.12
7500	6.98	6.98	6.96	6.98	0.02	0.21	46.14	38.12	41.88	1.13	1.14	1.10	1.10	1.07
8000	7.02	7.02	7.00	7.03	0.03	0.24	26.11	40.26	26.26	1.15	1.02	1.02	1.01	1.04
8500	7.03	7.03	7.03	7.04	0.01	0.36	25.49	41.67	25.53	1.03	1.05	1.05	1.06	1.07
9000	7.09	7.10	7.10	7.10	0.01	0.35	23.89	38.81	23.71	1.14	1.04	1.04	1.05	1.05
9500	7.11	7.11	7.11	7.12	0.01	0.30	36.35	35.50	36.97	1.08	1.10	1.10	1.09	1.09
10000	7.15	7.15	7.16	7.16	0.02	0.36	30.31	35.09	29.96	1.03	1.05	1.05	1.06	1.06
10500	7.23	7.24	7.26	7.24	0.03	0.30	31.75	34.07	35.18	1.23	1.19	1.18	1.21	1.21
11000	7.25	7.24	7.26	7.26	0.02	0.40	26.75	35.06	28.55	1.13	1.06	1.05	1.09	1.08
11500	7.28	7.28	7.31	7.31	0.03	0.47	27.70	46.05	28.70	1.15	1.09	1.12	1.13	1.13
12000	7.35	7.35	7.40	7.37	0.05	0.41	29.22	40.43	30.08	1.24	1.14	1.16	1.18	1.18
12500	7.37	7.37	7.41	7.38	0.04	0.43	37.21	38.40	40.48	1.17	1.11	1.12	1.15	1.14
13000	7.40	7.39	7.44	7.41	0.06	0.54	30.67	44.95	31.53	1.13	1.08	1.08	1.11	1.10
13500	7.44	7.44	7.48	7.45	0.04	0.62	26.14	39.93	26.16	1.16	1.07	1.05	1.08	1.08
14000	7.47	7.46	7.51	7.48	0.06	0.56	34.86	37.65	35.60	1.09	1.10	1.09	1.12	1.12
14500	7.51	7.48	7.55	7.52	0.08	0.70	28.85	35.42	28.28	1.02	1.10	1.07	1.06	1.06
15000	7.58	7.56	7.63	7.59	0.07	0.75	37.14	34.59	34.43	1.21	1.15	1.13	1.13	1.13
15500	7.63	7.61	7.66	7.63	0.05	0.64	30.80	41.76	31.31	1.21	1.14	1.16	1.15	1.14
16000	7.66	7.63	7.70	7.67	0.07	0.71	48.34	37.71	39.53	1.12	1.09	1.11	1.12	1.09
16500	7.70	7.68	7.74	7.71	0.06	0.84	36.41	33.40	38.80	1.21	1.15	1.17	1.13	1.12
17000	7.80	7.78	7.85	7.81	0.07	0.77	32.72	35.81	36.52	1.19	1.15	1.17	1.17	1.16
17500	7.76	7.72	7.81	7.77	0.09	0.85	32.67	43.33	36.00	1.04	1.05	1.06	1.06	1.05
18000	7.79	7.76	7.85	7.81	0.08	1.00	38.61	42.06	37.99	1.09	1.08	1.10	1.07	1.05
18500	7.85	7.82	7.93	7.88	0.10	0.99	33.52	49.01	33.44	1.05	1.11	1.15	1.17	1.13
19000	7.89	7.85	7.94	7.90	0.09	1.09	31.94	44.75	31.98	1.16	1.09	1.12	1.10	1.08
19500	7.95	7.91	7.99	7.96	0.09	1.23	31.55	47.36	30.11	1.20	1.14	1.16	1.10	1.10
20000	7.96	7.93	8.02	7.98	0.09	1.10	28.91	44.09	29.64	1.01	1.10	1.12	1.06	1.05
20500	8.02	7.99	8.09	8.04	0.10	1.24	30.96	38.00	33.82	1.10	1.09	1.10	1.08	1.06
21000	8.08	8.02	8.13	8.10	0.10	1.30	34.07	39.07	36.81	1.13	1.04	1.03	1.06	1.02
21500	8.14	8.10	8.20	8.16	0.10	1.36	32.71	52.36	33.04	1.09	1.14	1.14	1.04	1.09
22000	8.15	8.09	8.20	8.18	0.10	1.41	39.11	51.46	41.09	1.05	1.13	1.14	1.05	1.09
22500	8.19	8.15	8.24	8.22	0.10	1.38	39.20	50.60	34.24	1.08	1.12	1.10	1.07	1.11
23000	8.34	8.28	8.37	8.35	0.09	1.44	39.38	48.70	47.37	1.19	1.25	1.25	1.22	1.24
23500	8.32	8.26	8.35	8.32	0.09	1.45	55.64	46.23	35.98	1.16	1.25	1.23	1.20	1.20
24000	8.32	8.25	8.34	8.33	0.09	1.60	27.08	40.76	25.51	1.13	1.18	1.16	1.09	1.09
24500	8.35	8.28	8.37	8.36	0.09	1.50	32.42	36.37	30.20	1.14	1.15	1.12	1.07	1.07
25000	8.38	8.31	8.45	8.43	0.14	1.58	37.73	38.29	33.26	1.15	1.12	1.07	1.06	1.06
25500	8.39	8.33	8.44	8.42	0.11	1.63	30.99	51.06	34.14	1.07	1.11	1.09	1.05	1.06
26000	8.43	8.37	8.52	8.49	0.15	1.60	33.99	43.20	37.05	1.06	1.04	1.04	1.01	1.02
26500	8.47	8.40	8.54	8.52	0.13	1.77	29.56	44.95	30.85	1.10	1.05	1.05	1.01	1.02
27000	8.57	8.52	8.63	8.61	0.12	1.65	36.17	42.08	36.29	1.09	1.16	1.13	1.09	1.10

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-02263-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
10	7.94	7.93	7.92	7.94	0.02	0.04	7.72	8.05	7.80	3.86	3.88	3.88	3.88	3.84
50	7.95	7.92	7.90	7.93	0.04	0.30	5.78	8.81	5.81	3.70	3.27	3.28	3.26	3.24
100	7.77	7.72	7.68	7.73	0.09	0.24	3.83	10.20	3.83	3.39	2.49	2.49	2.46	2.47
500	6.60	6.60	6.69	6.59	0.09	0.29	6.92	12.31	6.78	1.80	1.50	1.50	1.54	1.52
1000	6.41	6.37	6.41	6.38	0.04	0.35	12.03	23.55	11.57	1.42	1.13	1.13	1.14	1.15
1500	6.42	6.37	6.38	6.40	0.06	0.43	19.74	36.45	19.19	1.27	1.16	1.16	1.19	1.21
2000	6.44	6.38	6.40	6.39	0.06	0.41	19.86	31.99	19.15	1.02	1.06	1.06	1.11	1.11
2500	6.50	6.45	6.48	6.45	0.05	0.46	30.71	33.97	25.86	1.04	1.14	1.14	1.20	1.20
3000	6.60	6.52	6.54	6.53	0.08	0.54	26.22	34.31	23.24	1.13	1.15	1.15	1.16	1.16
3500	6.66	6.57	6.60	6.58	0.08	0.63	27.55	30.02	28.64	1.15	1.17	1.16	1.18	1.17
4000	6.66	6.61	6.64	6.60	0.06	0.79	23.43	29.05	23.07	1.03	1.04	1.04	1.05	1.04
4500	6.76	6.67	6.70	6.68	0.09	0.83	23.96	33.81	23.57	1.13	1.16	1.15	1.13	1.14
5000	6.80	6.72	6.75	6.74	0.08	0.89	37.05	44.35	35.39	1.17	1.17	1.18	1.19	1.19
5500	6.82	6.74	6.77	6.74	0.08	0.84	28.43	35.94	26.67	1.08	1.19	1.18	1.18	1.19
6000	6.91	6.80	6.83	6.81	0.11	0.91	28.27	34.20	27.22	1.13	1.27	1.26	1.24	1.25
6500	6.96	6.86	6.88	6.86	0.10	1.10	22.64	32.69	21.48	1.21	1.10	1.10	1.03	1.04
7000	6.95	6.87	6.89	6.88	0.08	1.18	33.10	34.21	29.95	1.12	1.14	1.11	1.12	1.14
7500	7.00	6.91	6.94	6.92	0.10	1.08	38.27	42.02	37.48	1.07	1.12	1.10	1.08	1.11
8000	7.05	6.95	6.99	6.97	0.10	1.20	27.46	40.26	27.57	1.16	1.05	1.03	1.01	1.02
8500	7.06	6.98	7.02	6.98	0.08	1.29	27.49	40.87	27.36	1.07	1.05	1.05	1.07	1.05
9000	7.12	7.04	7.08	7.05	0.08	1.30	25.21	40.81	24.72	1.11	1.02	1.03	1.05	1.04
9500	7.15	7.04	7.08	7.06	0.10	1.42	41.87	37.66	52.38	1.04	1.07	1.05	1.05	1.05
10000	7.18	7.10	7.15	7.10	0.08	1.61	30.77	37.61	29.72	1.02	1.04	1.08	1.08	1.08
10500	7.26	7.19	7.22	7.19	0.08	1.68	35.39	36.06	37.50	1.20	1.15	1.18	1.21	1.20
11000	7.30	7.19	7.22	7.21	0.11	1.64	28.18	38.28	27.40	1.14	1.05	1.08	1.09	1.08
11500	7.34	7.24	7.29	7.24	0.11	1.70	30.39	49.67	28.69	1.14	1.12	1.17	1.13	1.11
12000	7.39	7.30	7.35	7.29	0.09	1.88	31.12	35.16	29.07	1.19	1.14	1.18	1.17	1.15
12500	7.43	7.31	7.36	7.32	0.12	1.99	38.40	34.23	32.61	1.15	1.11	1.15	1.15	1.12
13000	7.46	7.34	7.40	7.35	0.12	2.09	34.86	40.93	37.43	1.14	1.08	1.13	1.11	1.08
13500	7.47	7.37	7.42	7.37	0.10	2.24	28.39	48.06	28.61	1.06	1.03	1.09	1.07	1.04
14000	7.50	7.40	7.46	7.40	0.10	2.29	34.59	42.46	33.29	1.03	1.07	1.12	1.11	1.08
14500	7.56	7.43	7.51	7.44	0.13	2.47	29.50	39.61	29.15	1.08	1.04	1.06	1.07	1.04
15000	7.63	7.51	7.58	7.51	0.12	2.57	34.35	38.75	32.49	1.19	1.14	1.10	1.11	1.13
15500	7.68	7.54	7.59	7.54	0.14	2.41	32.14	56.46	29.62	1.12	1.17	1.12	1.12	1.12
16000	7.71	7.56	7.63	7.57	0.16	2.54	36.97	35.38	31.42	1.08	1.15	1.10	1.04	1.07
16500	7.78	7.62	7.69	7.63	0.16	2.78	38.45	31.82	32.93	1.17	1.18	1.12	1.07	1.12
17000	7.85	7.67	7.76	7.67	0.18	2.66	31.48	34.46	36.84	1.07	1.21	1.16	1.16	1.18
17500	7.87	7.68	7.78	7.70	0.19	2.89	30.09	43.08	29.09	1.12	1.10	1.05	1.06	1.08
18000	7.91	7.73	7.83	7.74	0.17	2.96	44.42	41.52	41.40	1.18	1.11	1.07	1.04	1.09
18500	7.98	7.76	7.86	7.78	0.22	2.89	31.85	40.58	32.76	1.05	1.14	1.11	1.09	1.11
19000	8.02	7.81	7.91	7.82	0.21	2.78	34.91	37.38	33.47	1.21	1.13	1.09	1.07	1.09
19500	8.09	7.87	7.96	7.89	0.22	3.06	28.63	36.81	27.44	1.27	1.17	1.13	1.10	1.14
20000	8.10	7.87	7.99	7.88	0.23	3.02	33.96	40.54	31.21	1.04	1.11	1.06	1.05	1.10
20500	8.15	7.93	8.05	7.94	0.22	3.27	37.48	40.15	32.50	1.09	1.11	1.06	1.04	1.06
21000	8.18	7.96	8.08	7.98	0.22	3.39	35.41	40.64	31.00	1.13	1.06	1.06	1.04	1.06
21500	8.29	8.04	8.18	8.06	0.25	3.38	32.43	47.05	36.74	1.10	1.14	1.18	1.17	1.21
22000	8.31	8.06	8.21	8.09	0.25	3.33	39.04	55.09	33.73	1.10	1.12	1.13	1.13	1.15
22500	8.37	8.13	8.27	8.15	0.23	3.30	35.61	47.88	31.68	1.19	1.12	1.14	1.13	1.12
23000	8.47	8.20	8.34	8.22	0.27	3.34	37.20	40.57	40.52	1.17	1.22	1.23	1.19	1.20
23500	8.46	8.17	8.33	8.20	0.28	3.59	37.32	39.38	33.60	1.14	1.22	1.20	1.16	1.17
24000	8.50	8.23	8.37	8.25	0.27	3.62	28.40	40.05	28.88	1.25	1.18	1.16	1.15	1.16
24500	8.51	8.22	8.36	8.25	0.28	3.68	30.98	40.73	30.49	1.12	1.14	1.12	1.13	1.14
25000	8.54	8.26	8.41	8.28	0.28	3.73	36.41	42.62	34.64	1.04	1.07	1.06	1.09	1.12
25500	8.59	8.30	8.44	8.33	0.30	3.78	33.99	52.03	35.04	1.15	1.10	1.10	1.10	1.13
26000	8.62	8.35	8.52	8.36	0.27	3.91	41.91	65.39	33.75	1.09	1.06	1.08	1.04	1.08
26500	8.66	8.38	8.55	8.38	0.28	3.99	32.14	48.72	40.61	1.02	1.05	1.07	1.09	1.10
27000	8.80	8.54	8.76	8.53	0.27	3.83	32.27	40.56	30.07	1.17	1.09	1.07	1.06	1.08

¹Total Loss = Insertion Loss + 6dB Splitter Loss



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4 Way-0° Power Splitter/Combiner

ZC4PD-02263-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
10	7.93	7.94	7.94	7.93	0.01	0.27	7.77	8.09	7.77	4.02	3.91	3.88	3.89	3.90
50	7.91	7.91	7.92	7.91	0.02	0.11	5.67	8.91	5.68	3.84	3.28	3.28	3.28	3.27
100	7.71	7.71	7.73	7.71	0.03	0.10	3.70	10.40	3.70	3.50	2.49	2.49	2.50	2.49
500	6.59	6.59	6.55	6.57	0.04	0.18	5.84	11.58	5.84	1.83	1.56	1.56	1.56	1.56
1000	6.40	6.39	6.36	6.37	0.04	0.10	11.91	21.86	12.13	1.44	1.26	1.26	1.28	1.28
1500	6.38	6.37	6.35	6.37	0.03	0.25	18.73	27.69	19.19	1.29	1.06	1.07	1.05	1.06
2000	6.37	6.37	6.34	6.37	0.03	0.39	18.91	26.48	19.45	1.02	1.11	1.11	1.07	1.08
2500	6.43	6.43	6.41	6.42	0.02	0.43	26.37	29.20	28.60	1.04	1.26	1.27	1.24	1.24
3000	6.52	6.51	6.50	6.53	0.03	0.44	21.86	38.19	22.76	1.18	1.25	1.24	1.25	1.26
3500	6.56	6.54	6.53	6.57	0.04	0.44	21.81	33.63	21.20	1.14	1.21	1.20	1.19	1.21
4000	6.58	6.58	6.58	6.58	0.01	0.47	20.61	27.87	20.22	1.03	1.02	1.01	1.02	1.02
4500	6.68	6.65	6.64	6.67	0.04	0.52	24.16	29.59	23.85	1.15	1.18	1.15	1.15	1.17
5000	6.72	6.69	6.69	6.72	0.04	0.66	34.79	33.14	37.16	1.17	1.22	1.20	1.20	1.21
5500	6.73	6.71	6.72	6.74	0.03	0.75	31.07	30.38	33.73	1.03	1.24	1.22	1.23	1.23
6000	6.82	6.81	6.80	6.82	0.02	0.87	23.44	30.35	24.81	1.18	1.28	1.28	1.29	1.28
6500	6.85	6.83	6.81	6.85	0.04	0.76	19.92	30.31	20.11	1.18	1.09	1.06	1.08	1.07
7000	6.87	6.84	6.85	6.86	0.03	0.81	32.97	30.78	33.74	1.04	1.18	1.13	1.14	1.15
7500	6.94	6.91	6.92	6.91	0.03	0.97	50.18	37.48	45.43	1.14	1.16	1.13	1.13	1.10
8000	6.97	6.94	6.95	6.96	0.04	1.04	25.67	45.47	25.15	1.14	1.02	1.02	1.00	1.02
8500	6.98	6.96	6.99	6.97	0.03	1.18	25.46	38.29	25.20	1.01	1.03	1.02	1.05	1.06
9000	7.05	7.03	7.06	7.04	0.03	1.25	23.63	40.09	23.19	1.16	1.03	1.03	1.05	1.04
9500	7.07	7.04	7.07	7.06	0.03	1.25	37.91	37.42	35.22	1.08	1.10	1.10	1.09	1.09
10000	7.11	7.08	7.12	7.10	0.04	1.34	32.19	36.26	30.35	1.04	1.07	1.08	1.09	1.09
10500	7.19	7.17	7.22	7.19	0.05	1.38	29.16	34.41	31.86	1.23	1.20	1.20	1.23	1.23
11000	7.21	7.17	7.22	7.20	0.05	1.51	25.45	33.69	26.94	1.12	1.06	1.06	1.09	1.09
11500	7.24	7.22	7.28	7.25	0.06	1.60	26.74	38.98	27.81	1.14	1.10	1.13	1.15	1.15
12000	7.31	7.30	7.37	7.31	0.08	1.57	28.18	50.83	28.92	1.25	1.16	1.17	1.20	1.20
12500	7.34	7.31	7.38	7.33	0.07	1.65	41.75	39.55	44.10	1.17	1.12	1.13	1.17	1.15
13000	7.37	7.33	7.42	7.36	0.09	1.70	28.91	40.19	28.90	1.14	1.08	1.08	1.11	1.10
13500	7.42	7.39	7.47	7.41	0.08	1.72	25.11	39.01	24.73	1.19	1.06	1.04	1.08	1.08
14000	7.44	7.40	7.50	7.44	0.09	1.79	34.37	38.60	34.01	1.10	1.09	1.09	1.13	1.12
14500	7.49	7.42	7.54	7.47	0.11	1.86	28.94	36.42	28.10	1.03	1.08	1.06	1.04	1.05
15000	7.58	7.53	7.63	7.56	0.10	2.02	41.26	34.75	36.88	1.24	1.17	1.16	1.15	1.15
15500	7.63	7.58	7.66	7.60	0.09	2.13	29.23	40.59	29.75	1.24	1.16	1.17	1.16	1.14
16000	7.68	7.61	7.72	7.66	0.11	2.18	47.63	39.45	38.64	1.14	1.10	1.12	1.14	1.10
16500	7.72	7.65	7.76	7.70	0.11	2.23	37.03	34.05	38.54	1.26	1.18	1.18	1.15	1.14
17000	7.79	7.72	7.85	7.77	0.12	2.33	33.33	35.76	35.85	1.24	1.18	1.18	1.19	1.18
17500	7.78	7.70	7.83	7.77	0.13	2.33	36.01	42.87	40.18	1.08	1.05	1.06	1.08	1.07
18000	7.81	7.73	7.86	7.79	0.13	2.51	32.68	42.55	32.99	1.11	1.07	1.08	1.06	1.05
18500	7.87	7.80	7.95	7.87	0.15	2.57	31.74	49.63	31.83	1.11	1.12	1.15	1.19	1.15
19000	7.90	7.81	7.96	7.87	0.15	2.62	32.18	51.12	31.22	1.12	1.08	1.09	1.09	1.06
19500	7.96	7.86	8.01	7.94	0.15	2.79	34.85	51.61	32.12	1.16	1.13	1.12	1.06	1.06
20000	7.99	7.91	8.06	7.98	0.15	2.71	27.40	43.09	28.18	1.02	1.09	1.09	1.05	1.03
20500	8.05	7.95	8.12	8.04	0.17	2.84	29.82	37.56	32.21	1.11	1.08	1.09	1.07	1.04
21000	8.10	8.00	8.16	8.10	0.16	2.91	33.60	38.41	37.14	1.13	1.04	1.02	1.06	1.02
21500	8.15	8.05	8.22	8.14	0.17	2.91	31.22	49.21	31.96	1.08	1.14	1.12	1.04	1.08
22000	8.19	8.08	8.25	8.17	0.16	3.12	37.75	51.36	39.79	1.04	1.12	1.13	1.04	1.07
22500	8.23	8.12	8.29	8.22	0.16	3.14	40.87	53.30	35.41	1.08	1.09	1.08	1.06	1.09
23000	8.36	8.25	8.41	8.33	0.16	3.23	37.07	55.11	41.28	1.21	1.24	1.25	1.22	1.23
23500	8.34	8.23	8.39	8.31	0.16	3.21	39.65	50.77	31.63	1.16	1.22	1.22	1.19	1.18
24000	8.34	8.22	8.39	8.33	0.17	3.39	25.92	39.97	24.52	1.13	1.13	1.12	1.05	1.05
24500	8.41	8.29	8.45	8.39	0.17	3.53	29.78	35.28	28.53	1.19	1.13	1.11	1.05	1.06
25000	8.43	8.31	8.51	8.43	0.21	3.64	34.58	37.52	32.14	1.19	1.11	1.07	1.04	1.05
25500	8.45	8.32	8.50	8.43	0.18	3.64	31.75	45.70	33.95	1.07	1.08	1.07	1.03	1.03
26000	8.49	8.37	8.57	8.49	0.21	3.86	32.68	40.74	33.75	1.13	1.02	1.02	1.04	1.03
26500	8.55	8.42	8.66	8.57	0.23	3.79	27.92	41.74	28.75	1.17	1.03	1.03	1.02	1.01
27000	8.58	8.46	8.65	8.58	0.19	3.87	43.08	40.54	45.40	1.01	1.14	1.11	1.06	1.07

¹Total Loss = Insertion Loss + 6dB Splitter Loss

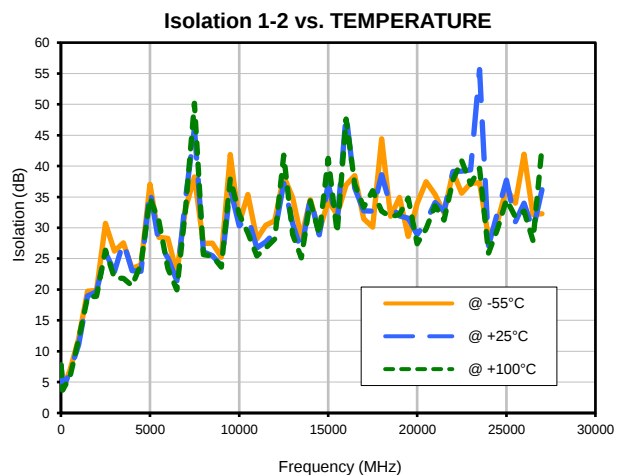
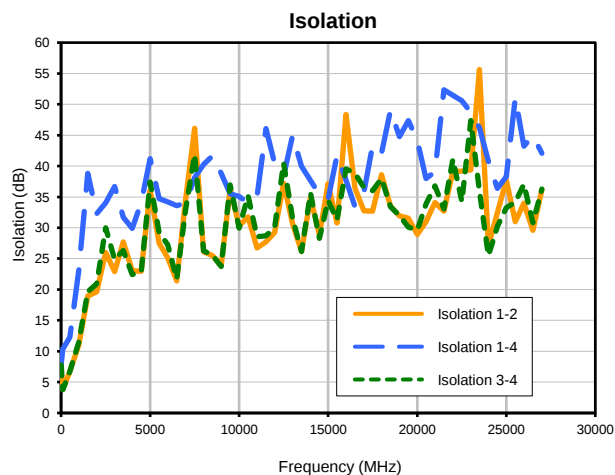
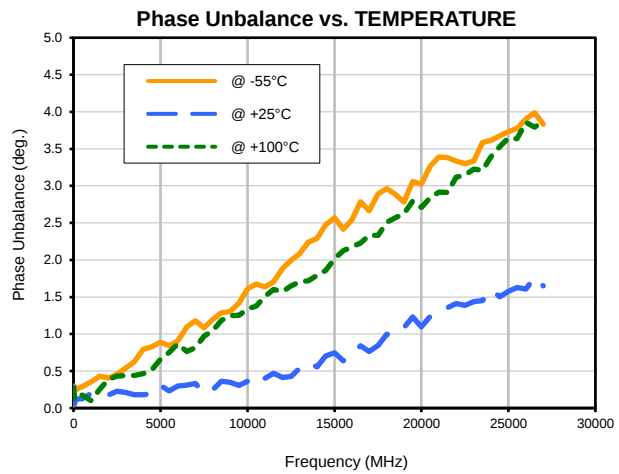
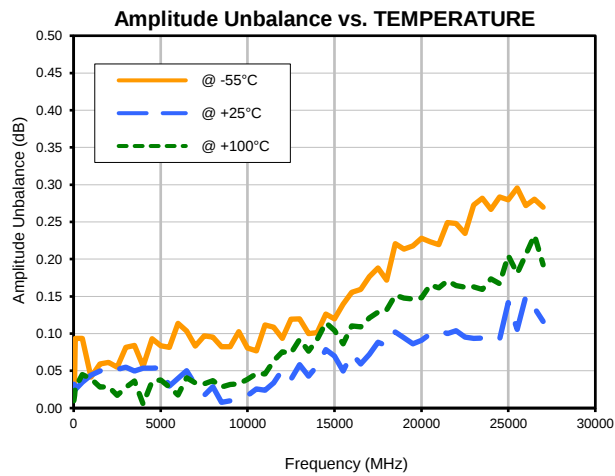
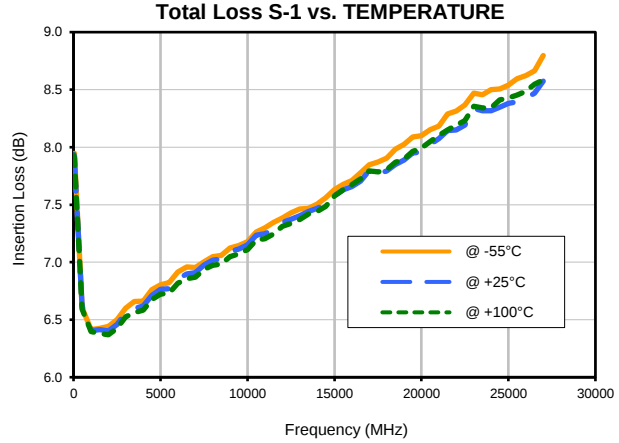
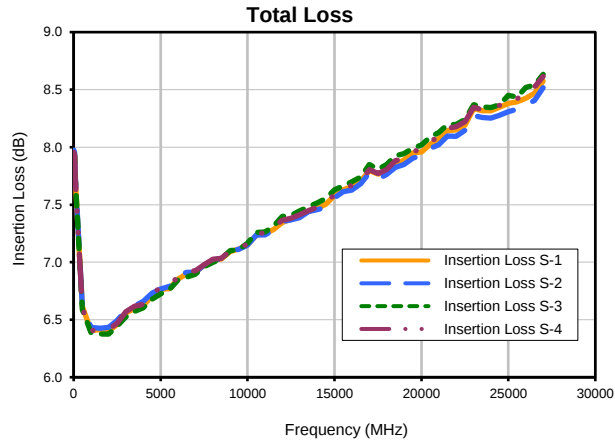


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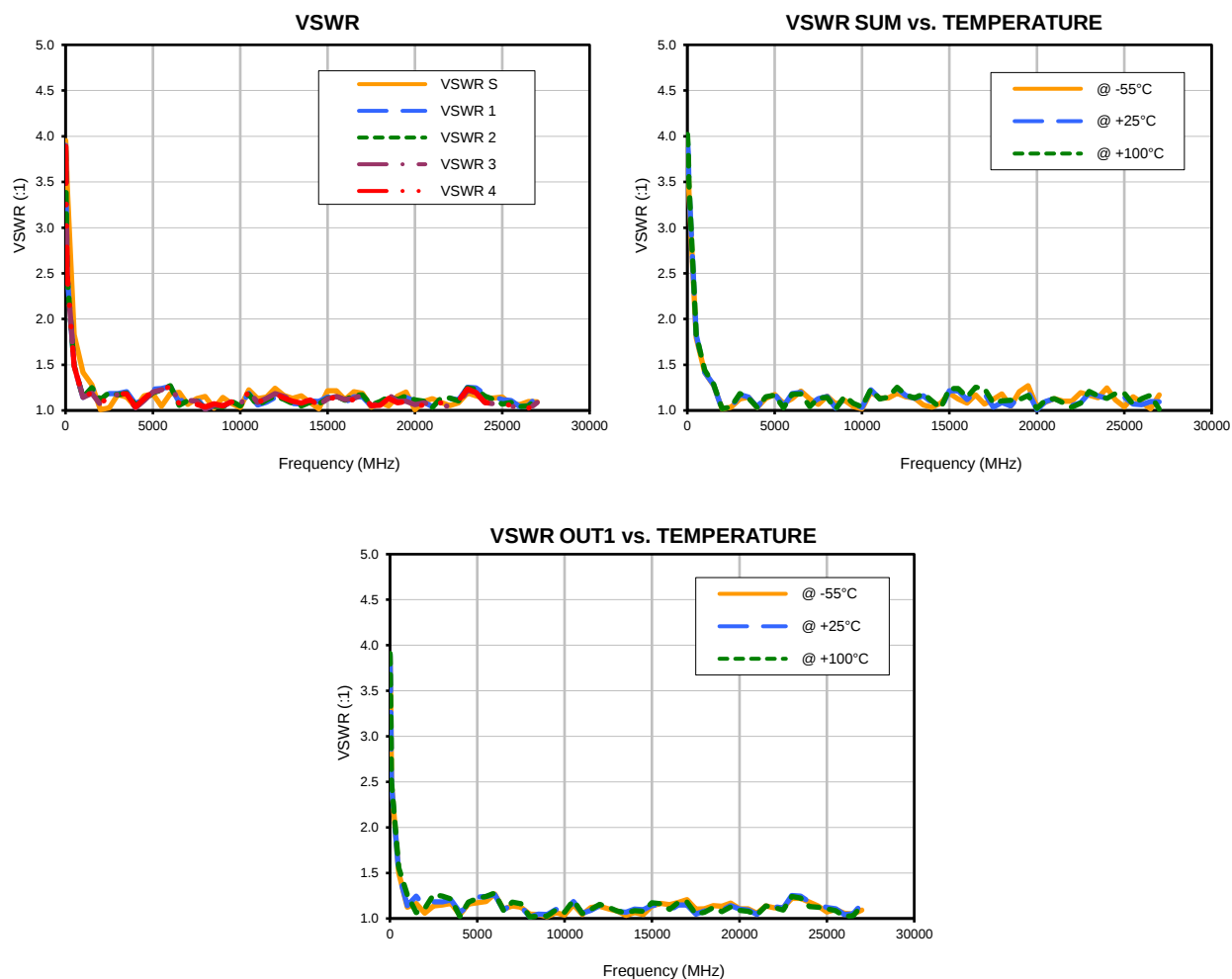
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Typical Performance Curves



Typical Performance Curves

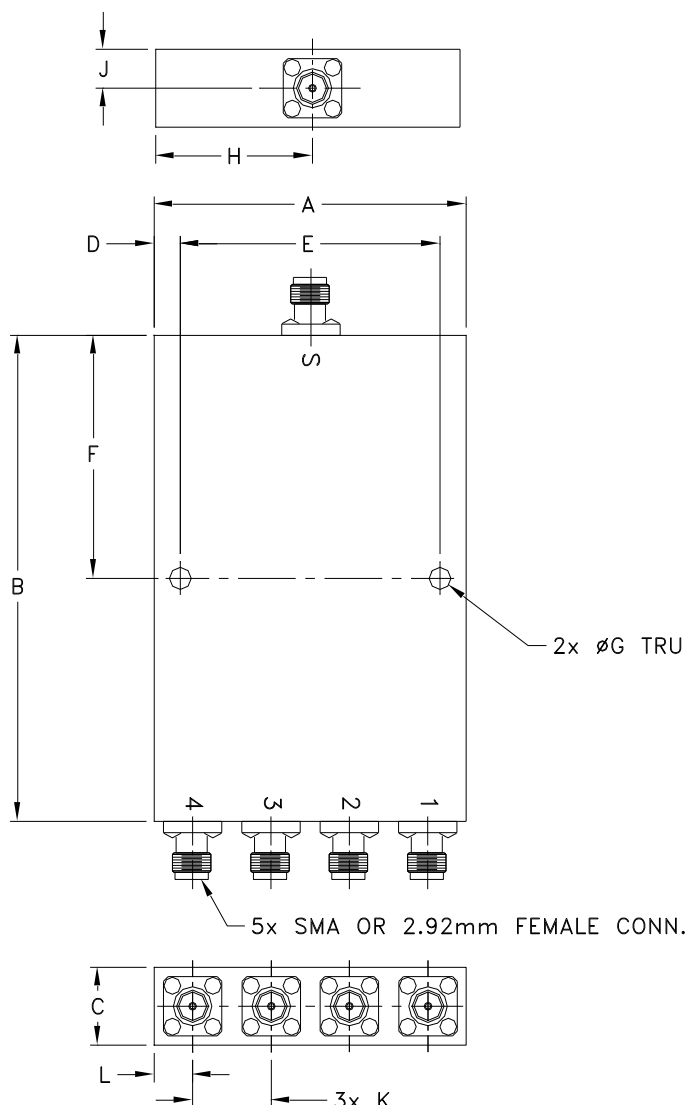


Case Style

UU

Outline Dimensions

UU2625



CASE#	A	B	C	D	E	F	G	H	J	K	L	WT. GRAMS
UU2625	2.03 (51.56)	3.12 (79.25)	.50 (12.70)	.17 (4.32)	1.690 (42.93)	1.56 (39.62)	.142 (3.60)	1.02 (25.91)	.25 (6.40)	.512 (13.00)	.25 (6.40)	160

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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RF/IF MICROWAVE COMPONENTS



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
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