

DC Pass, High Power

Power Splitter/Combiner

ZC2PD-E1653+

2 Way-0° 50Ω 1000 to 65000 MHz

The Big Deal

- Super wideband, 1 to 65 GHz
- Low insertion loss, 1.8 dB typ.
- High Isolation, 32 dB typ.
- 16W power handling
- Low amplitude unbalance, 0.1 dB typ.



CASE STYLE: UU2624-2

Product Overview

Mini-Circuits' ZC2PD-E1653+ is a super wideband 2-way 0° splitter/combiner providing coverage from 1 to 65 GHz, supporting a wide range of applications including 5G, Ku, Ka, V and K-Band, instrumentation and many more. This model provides 12W 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 ZC2PD-E1653+ comes housed in a case measuring 3.75 x 1.02 x 0.5".

Key Features

Feature	Advantages
Ultra-wideband, 1 to 65 GHz	Extremely wide frequency range supports many broadband applications in a single model. Ideal for use in wideband instrumentation
Low insertion loss, 1.8 dB typ. at 28 GHz	The combination of 16W power handling and low insertion loss makes this model a suitable candidate for distributing signals while maintaining excellent transmission of signal power.
High isolation, 32 dB typ. at 24 GHz	Minimizes interference between ports.
High power handling: • 12W as a splitter at 25°C • 0.78W as a combiner	The ZC2PD-E1653+ is suitable for systems with a wide range of power requirements.
Low amplitude unbalance, 0.1 dB at 13 GHz	Produces nearly equal output signals, ideal for parallel path and multichannel systems.
DC Passing, 352mA	Supports applications where DC power is needed to pass 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



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2 Way-0° 50Ω 1000 to 65000 MHz

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	12W* max.
Internal Dissipation	0.78W max.
DC Current	352mA

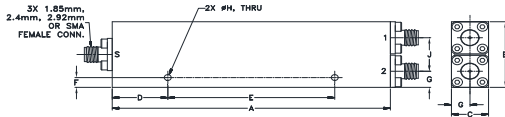
Permanent damage may occur if any of these limits are exceeded.

* Derate linearly to 6.2W at 100°C

Coaxial Connections

Sum Port	S
Port 1	1
Port 2	2

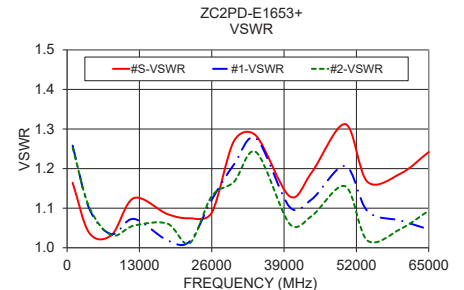
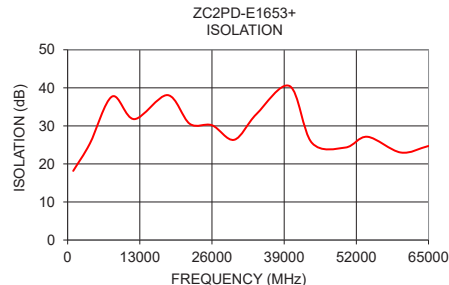
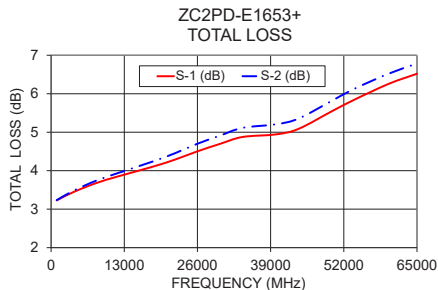
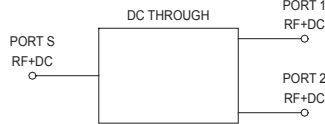
Outline Drawing



Outline Dimensions (inch mm)

A	B	C	D	E	F	G
3.75	1.02	.50	.750	2.250	.151	.25
95.25	25.91	12.70	19.05	57.15	3.84	6.35
H	J					wt
.094	.52					grams
2.4	13.21					105

Electrical Schematic



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ZC2PD-E1653+



Generic photo used for illustration purposes only

CASE STYLE: UU2624-2

Connectors	Model
1.85mm-Fem	ZC2PD-E1653+

+RoHS Compliant

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

Features

- Super wideband, 1000 - 65000 MHz
- Low insertion loss, 1.8 dB typ.
- Low amplitude unbalance, 0.1 dB typ.
- Excellent VSWR, 1.12:1 typ.
- High isolation, 32 dB typ.

Applications

- 5G
- Fixed satellite
- Space research
- Mobile

Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		1000		65000	MHz
Insertion Loss Above 3.0 dB	1000-18000		0.8	2.2	dB
	18000-40000		1.8	3.2	
	40000-50000		2.6	4	
	50000-65000		3.3	5.4	
Isolation	1000-18000	16	31		dB
	18000-40000	16	32		
	40000-50000	16	28		
	50000-65000	16	28		
Phase Unbalance (±)¹	1000-18000		0.6	4	Degree
	18000-40000		1.3	5	
	40000-50000		1.9	7	
	50000-65000		2.4	9	
Amplitude Unbalance (±)¹	1000-18000		0.04	0.3	dB
	18000-40000		0.10	0.4	
	40000-50000		0.14	0.6	
	50000-65000		0.20	0.8	
VSWR (Port S)	1000-18000		1.07	1.6	:1
	18000-40000		1.12	1.7	
	40000-50000		1.17	1.8	
	50000-65000		1.13	1.9	
VSWR (Port 1-2)	1000-18000		1.08	1.6	:1
	18000-40000		1.12	1.7	
	40000-50000		1.13	1.8	
	50000-65000		1.08	1.9	

1. With reference to average.

Typical Performance Data

Frequency (MHz)	Total Loss¹ (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2
	S-1	S-2						
1000	3.23	3.23	0.01	18.17	0.20	1.16	1.26	1.25
4000	3.45	3.48	0.03	25.35	0.59	1.04	1.10	1.10
8000	3.68	3.74	0.06	37.72	0.93	1.03	1.03	1.03
12000	3.86	3.94	0.09	31.77	1.25	1.13	1.07	1.06
18000	4.10	4.24	0.13	38.09	1.60	1.09	1.02	1.06
22000	4.29	4.45	0.17	30.53	1.91	1.07	1.02	1.01
26000	4.50	4.70	0.20	30.17	2.01	1.09	1.12	1.13
30000	4.70	4.91	0.21	26.34	2.19	1.27	1.21	1.17
34000	4.88	5.11	0.24	33.09	2.30	1.28	1.28	1.24
40000	4.94	5.21	0.26	40.46	2.47	1.13	1.10	1.06
44000	5.09	5.36	0.27	25.53	2.59	1.19	1.12	1.08
50000	5.55	5.83	0.27	24.30	2.76	1.31	1.21	1.16
54000	5.85	6.14	0.28	27.14	2.86	1.17	1.09	1.02
60000	6.26	6.52	0.26	23.00	2.98	1.19	1.07	1.05
65000	6.52	6.78	0.26	24.72	3.61	1.24	1.05	1.09

1. Total Loss = Insertion Loss + 3dB splitter theoretical loss.

2 Way-0° Power Splitter/Combiner

ZC2PD-E1653+

Typical Performance Data

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

FREQUENCY (MHz)	TOTAL LOSS ¹ (dB)		AMPLITUDE UNBALANCE (dB)	ISOLATION (dB) 1-2	PHASE UNBALANCE (Deg)	FREQUENCY (MHz)	VSWR (:1)		
	S-1	S-2					S	1	2
500	3.44	3.45	0.01	9.49	0.11	500	1.61	1.46	1.46
700	3.34	3.35	0.01	12.65	0.14	700	1.42	1.36	1.35
1000	3.23	3.23	0.01	18.17	0.20	1000	1.16	1.26	1.25
2000	3.28	3.30	0.01	23.05	0.31	2000	1.02	1.23	1.22
3000	3.37	3.39	0.03	22.37	0.42	3000	1.02	1.20	1.20
4000	3.45	3.48	0.03	25.35	0.59	4000	1.04	1.10	1.10
5000	3.50	3.55	0.04	27.70	0.67	5000	1.07	1.04	1.05
6000	3.56	3.61	0.05	27.58	0.74	6000	1.10	1.07	1.06
7000	3.62	3.68	0.05	29.02	0.84	7000	1.05	1.16	1.15
8000	3.68	3.74	0.06	37.72	0.93	8000	1.03	1.03	1.03
9000	3.73	3.81	0.07	32.00	1.03	9000	1.06	1.00	1.01
10000	3.78	3.85	0.08	26.25	1.11	10000	1.11	1.03	1.02
11000	3.81	3.90	0.08	34.60	1.14	11000	1.15	1.10	1.10
12000	3.86	3.94	0.09	31.77	1.25	12000	1.13	1.07	1.06
13000	3.90	4.00	0.10	41.67	1.29	13000	1.08	1.08	1.09
14000	3.96	4.06	0.10	27.64	1.34	14000	1.15	1.07	1.07
15000	4.01	4.11	0.11	37.68	1.45	15000	1.18	1.16	1.15
16000	4.04	4.16	0.12	33.73	1.54	16000	1.15	1.13	1.12
17000	4.06	4.18	0.12	33.00	1.55	17000	1.05	1.03	1.05
18000	4.10	4.24	0.13	38.09	1.60	18000	1.09	1.02	1.06
19000	4.15	4.29	0.13	31.56	1.68	19000	1.06	1.05	1.02
20000	4.18	4.33	0.14	31.58	1.81	20000	1.02	1.04	1.02
22000	4.29	4.45	0.17	30.53	1.91	22000	1.07	1.02	1.01
24000	4.40	4.58	0.18	31.74	1.97	24000	1.10	1.12	1.14
26000	4.50	4.70	0.20	30.17	2.01	26000	1.09	1.12	1.13
28000	4.60	4.80	0.20	49.72	2.10	28000	1.13	1.13	1.11
30000	4.70	4.91	0.21	26.34	2.19	30000	1.27	1.21	1.17
32000	4.76	5.00	0.24	24.93	2.20	32000	1.24	1.20	1.19
34000	4.88	5.11	0.24	33.09	2.30	34000	1.28	1.28	1.24
36000	4.92	5.19	0.26	27.04	2.34	36000	1.32	1.18	1.17
38000	4.89	5.15	0.26	25.02	2.32	38000	1.17	1.11	1.08
40000	4.94	5.21	0.26	40.46	2.47	40000	1.13	1.10	1.06
42000	5.00	5.26	0.26	25.84	2.43	42000	1.14	1.05	1.03
44000	5.09	5.36	0.27	25.53	2.59	44000	1.19	1.12	1.08
46000	5.14	5.43	0.29	27.31	2.54	46000	1.16	1.11	1.12
48000	5.34	5.62	0.28	26.60	2.57	48000	1.21	1.14	1.08
50000	5.55	5.83	0.27	24.30	2.76	50000	1.31	1.21	1.16
52000	5.74	6.01	0.27	33.00	2.82	52000	1.21	1.20	1.07
54000	5.85	6.14	0.28	27.14	2.86	54000	1.17	1.09	1.02
56000	6.05	6.33	0.28	24.98	2.85	56000	1.16	1.12	1.14
58000	6.16	6.43	0.28	27.15	2.87	58000	1.06	1.13	1.11
60000	6.26	6.52	0.26	23.00	2.98	60000	1.19	1.07	1.05
62000	6.42	6.67	0.25	33.18	3.07	62000	1.11	1.11	1.13
64000	6.44	6.69	0.25	26.98	3.26	64000	1.17	1.12	1.11
65000	6.52	6.78	0.26	24.72	3.61	65000	1.24	1.05	1.09
67000	6.53	6.79	0.26	30.15	3.49	67000	1.30	1.18	1.18

¹Total Loss = Insertion Loss + 3dB Splitter Loss



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IF/RF MICROWAVE COMPONENTS

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ZC2PD-E1653+
1/10/2020
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2 Way-0° Power Splitter/Combiner

ZC2PD-E1653+

Typical Performance Data

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

FREQUENCY (MHz)	TOTAL LOSS ¹ (dB)		AMPLITUDE UNBALANCE (dB)	ISOLATION (dB)	PHASE UNBALANCE (Deg)	FREQUENCY (MHz)	VSWR (:1)		
	S-1	S-2		1-2			S	1	2
500	3.47	3.46	0.01	9.43	0.06	500	1.62	1.43	1.43
700	3.37	3.36	0.01	12.57	0.09	700	1.43	1.34	1.33
1000	3.25	3.24	0.01	17.99	0.15	1000	1.17	1.25	1.25
2000	3.31	3.31	0.00	23.12	0.28	2000	1.02	1.22	1.21
3000	3.41	3.43	0.01	22.76	0.35	3000	1.00	1.20	1.20
4000	3.49	3.50	0.01	25.35	0.50	4000	1.04	1.10	1.11
5000	3.54	3.57	0.02	27.48	0.62	5000	1.08	1.03	1.05
6000	3.61	3.63	0.03	27.37	0.70	6000	1.11	1.07	1.06
7000	3.68	3.71	0.03	29.40	0.78	7000	1.08	1.17	1.16
8000	3.74	3.78	0.04	38.42	0.86	8000	1.06	1.06	1.05
9000	3.80	3.85	0.05	30.04	0.96	9000	1.10	1.03	1.03
10000	3.83	3.89	0.06	25.38	1.08	10000	1.15	1.04	1.03
11000	3.85	3.92	0.07	32.38	1.11	11000	1.17	1.12	1.13
12000	3.89	3.96	0.07	31.56	1.18	12000	1.13	1.09	1.08
13000	3.94	4.03	0.09	47.37	1.24	13000	1.10	1.08	1.10
14000	3.99	4.08	0.09	27.21	1.27	14000	1.18	1.08	1.08
15000	4.04	4.14	0.10	35.87	1.28	15000	1.21	1.16	1.16
16000	4.06	4.17	0.11	34.23	1.33	16000	1.17	1.14	1.14
17000	4.07	4.18	0.11	34.76	1.36	17000	1.08	1.05	1.07
18000	4.10	4.22	0.12	34.34	1.39	18000	1.09	1.03	1.07
19000	4.14	4.26	0.12	29.83	1.47	19000	1.08	1.03	1.01
20000	4.17	4.29	0.13	30.31	1.58	20000	1.04	1.03	1.04
22000	4.26	4.40	0.14	29.49	1.64	22000	1.06	1.03	1.04
24000	4.35	4.51	0.15	31.91	1.76	24000	1.14	1.12	1.13
26000	4.43	4.61	0.18	32.36	1.79	26000	1.12	1.11	1.13
28000	4.51	4.70	0.18	42.66	1.85	28000	1.14	1.11	1.10
30000	4.61	4.80	0.20	25.64	1.84	30000	1.24	1.17	1.13
32000	4.67	4.87	0.21	25.72	1.86	32000	1.16	1.15	1.14
34000	4.79	5.00	0.20	37.69	1.94	34000	1.21	1.22	1.19
36000	4.85	5.08	0.23	28.09	2.04	36000	1.24	1.11	1.10
38000	4.80	5.03	0.23	25.30	1.94	38000	1.08	1.03	1.08
40000	4.88	5.12	0.24	41.45	2.05	40000	1.07	1.07	1.03
42000	4.94	5.18	0.23	25.59	2.02	42000	1.15	1.08	1.11
44000	5.03	5.26	0.23	26.70	2.12	44000	1.19	1.16	1.13
46000	5.13	5.36	0.24	26.77	2.12	46000	1.19	1.15	1.16
48000	5.33	5.56	0.23	26.01	2.20	48000	1.23	1.14	1.08
50000	5.53	5.77	0.23	27.06	2.37	50000	1.26	1.15	1.14
52000	5.68	5.91	0.22	41.60	2.50	52000	1.08	1.13	1.06
54000	5.86	6.09	0.23	25.86	2.57	54000	1.21	1.03	1.04
56000	6.03	6.27	0.24	27.07	2.51	56000	1.06	1.08	1.15
58000	6.11	6.35	0.24	25.21	2.50	58000	1.22	1.09	1.11
60000	6.24	6.47	0.23	24.35	2.58	60000	1.11	1.06	1.06
62000	6.34	6.56	0.22	34.08	2.92	62000	1.07	1.06	1.09
64000	6.38	6.61	0.23	27.64	3.05	64000	1.13	1.06	1.03
65000	6.45	6.71	0.26	24.47	3.32	65000	1.16	1.04	1.05
67000	6.40	6.63	0.23	28.12	3.12	67000	1.08	1.09	1.09

¹Total Loss = Insertion Loss + 3dB Splitter Loss



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2 Way-0° Power Splitter/Combiner

ZC2PD-E1653+

Typical Performance Data

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

FREQUENCY (MHz)	TOTAL LOSS ¹ (dB)		AMPLITUDE UNBALANCE (dB)	ISOLATION (dB) 1-2	PHASE UNBALANCE (Deg)	FREQUENCY (MHz)	VSWR (:1)		
	S-1	S-2					S	1	2
500	3.44	3.44	0.00	9.73	0.09	500	1.60	1.53	1.52
700	3.34	3.34	0.00	13.23	0.14	700	1.41	1.38	1.37
1000	3.23	3.23	0.00	18.82	0.20	1000	1.16	1.24	1.24
2000	3.29	3.29	0.00	22.22	0.36	2000	1.03	1.25	1.24
3000	3.38	3.39	0.01	22.03	0.53	3000	1.02	1.20	1.20
4000	3.47	3.49	0.01	25.28	0.76	4000	1.04	1.10	1.11
5000	3.54	3.56	0.02	27.09	0.91	5000	1.07	1.05	1.06
6000	3.61	3.63	0.02	27.31	1.04	6000	1.09	1.07	1.06
7000	3.68	3.70	0.03	28.69	1.20	7000	1.05	1.15	1.15
8000	3.74	3.77	0.03	36.91	1.39	8000	1.02	1.03	1.03
9000	3.79	3.84	0.05	32.23	1.55	9000	1.05	1.01	1.02
10000	3.83	3.89	0.06	26.61	1.70	10000	1.11	1.03	1.03
11000	3.87	3.93	0.06	36.52	1.79	11000	1.15	1.09	1.10
12000	3.91	3.98	0.07	32.09	1.95	12000	1.14	1.07	1.05
13000	3.95	4.04	0.09	40.26	2.06	13000	1.09	1.08	1.09
14000	4.00	4.10	0.09	27.37	2.16	14000	1.14	1.07	1.06
15000	4.05	4.16	0.10	39.38	2.32	15000	1.17	1.16	1.14
16000	4.08	4.20	0.12	33.71	2.41	16000	1.15	1.12	1.11
17000	4.09	4.22	0.13	32.44	2.43	17000	1.05	1.02	1.04
18000	4.13	4.27	0.14	40.55	2.48	18000	1.09	1.02	1.07
19000	4.18	4.31	0.13	33.87	2.55	19000	1.06	1.05	1.03
20000	4.21	4.34	0.13	33.00	2.70	20000	1.02	1.05	1.01
22000	4.30	4.44	0.14	30.17	2.95	22000	1.05	1.02	1.01
24000	4.40	4.55	0.15	31.67	3.16	24000	1.11	1.12	1.13
26000	4.49	4.66	0.17	30.83	3.30	26000	1.11	1.09	1.10
28000	4.58	4.75	0.17	37.07	3.42	28000	1.10	1.11	1.09
30000	4.70	4.88	0.18	27.85	3.55	30000	1.27	1.18	1.15
32000	4.79	4.99	0.19	25.85	3.78	32000	1.27	1.19	1.18
34000	4.91	5.09	0.18	36.20	3.93	34000	1.27	1.27	1.25
36000	4.97	5.17	0.20	28.95	4.12	36000	1.27	1.18	1.17
38000	4.97	5.17	0.20	27.31	4.23	38000	1.16	1.14	1.13
40000	5.04	5.23	0.19	44.76	4.48	40000	1.09	1.09	1.08
42000	5.09	5.28	0.19	26.69	4.62	42000	1.06	1.03	1.01
44000	5.19	5.39	0.19	27.24	4.91	44000	1.10	1.08	1.05
46000	5.27	5.47	0.20	30.47	5.04	46000	1.10	1.07	1.09
48000	5.47	5.66	0.19	27.70	5.20	48000	1.10	1.08	1.04
50000	5.67	5.86	0.19	24.64	5.52	50000	1.17	1.17	1.13
52000	5.90	6.07	0.18	32.93	5.77	52000	1.15	1.16	1.05
54000	6.04	6.23	0.19	29.02	6.01	54000	1.06	1.06	1.04
56000	6.22	6.41	0.19	26.63	6.13	56000	1.14	1.12	1.16
58000	6.38	6.56	0.17	26.99	6.38	58000	1.03	1.12	1.11
60000	6.46	6.64	0.18	23.78	6.55	60000	1.21	1.08	1.06
62000	6.60	6.78	0.18	33.18	6.80	62000	1.13	1.11	1.13
64000	6.63	6.80	0.18	29.63	7.13	64000	1.12	1.08	1.09
65000	6.69	6.87	0.18	28.06	7.56	65000	1.14	1.01	1.07
67000	6.70	6.89	0.19	33.08	7.53	67000	1.22	1.14	1.16

¹Total Loss = Insertion Loss + 3dB Splitter Loss



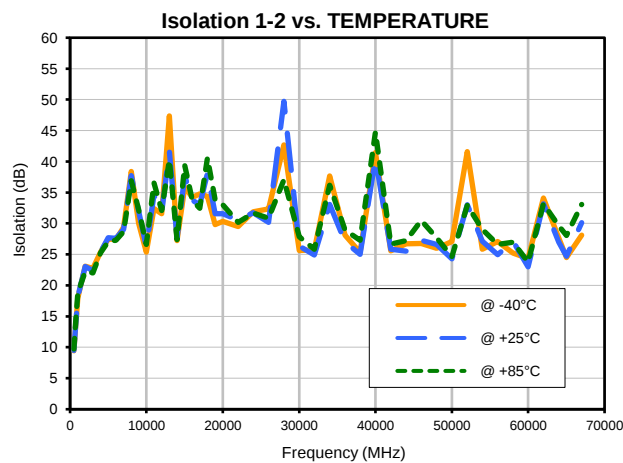
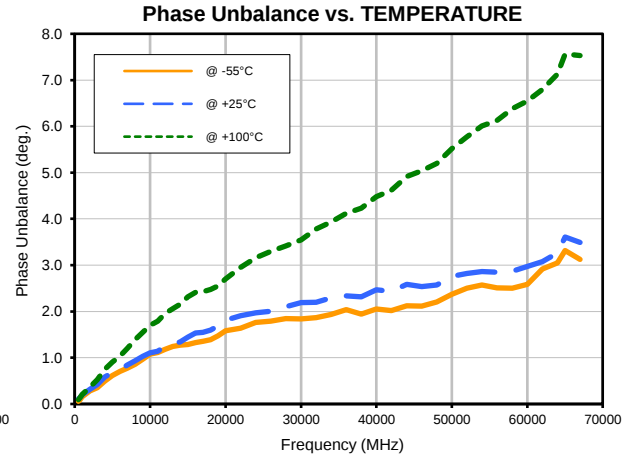
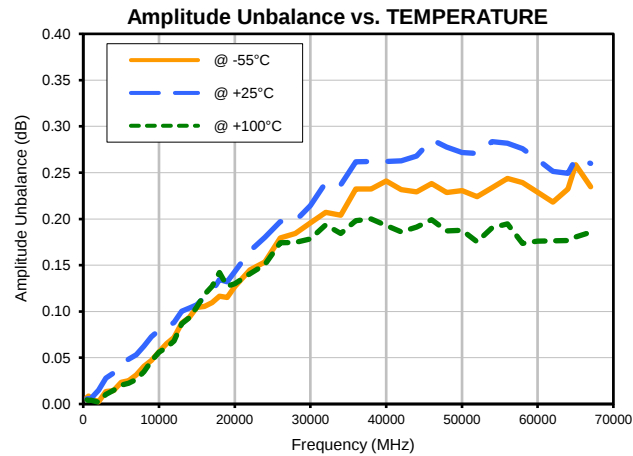
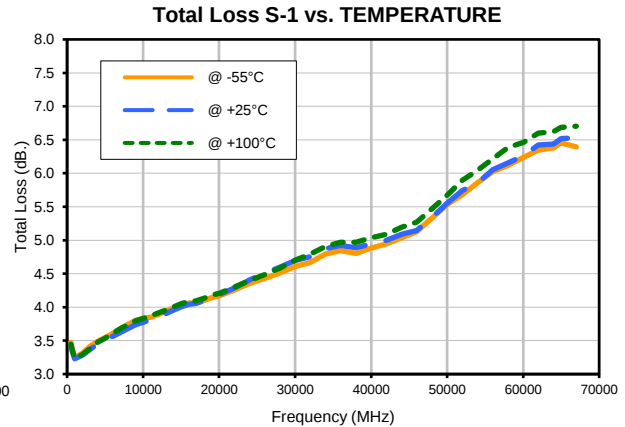
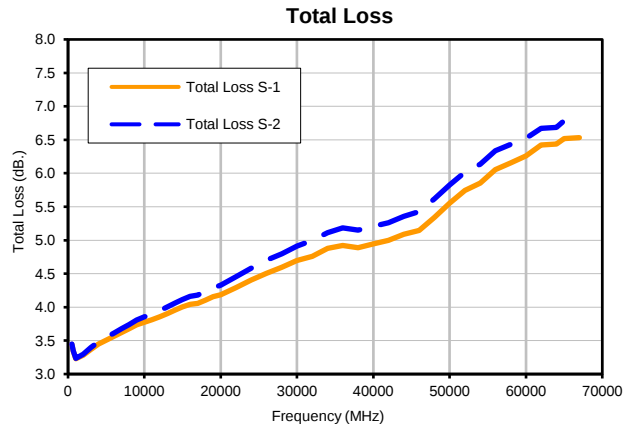
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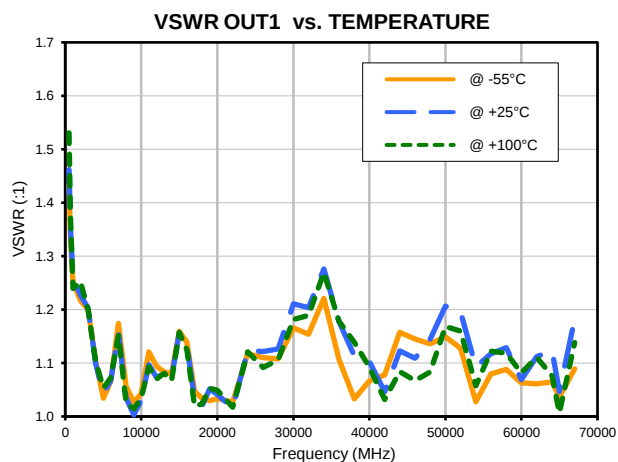
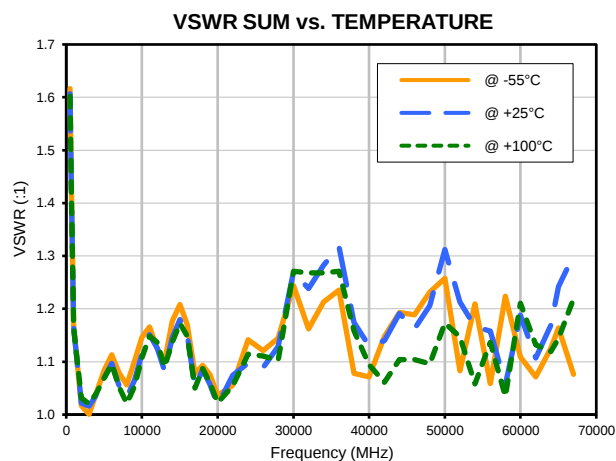
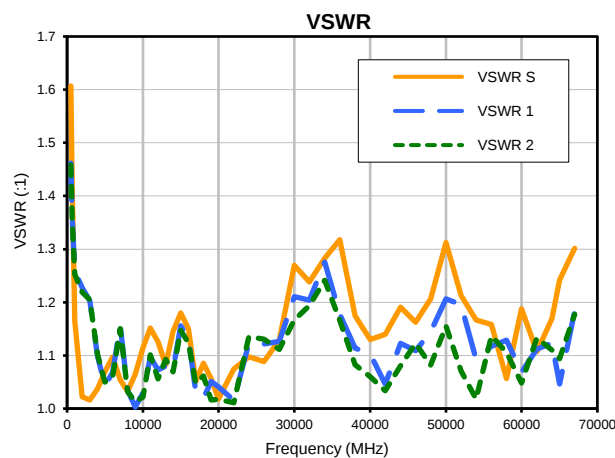
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Typical Performance Curves



Typical Performance Curves

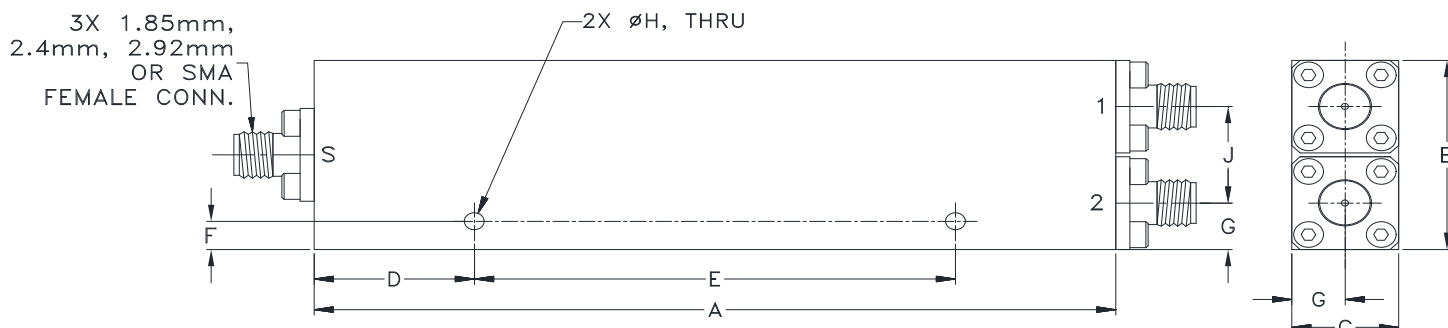


Case Style

UU

Outline Dimensions

UU2624-2



CASE #	A	B	C	D	E	F	G	H	J	WT. GRAM
UU2624-2	3.75 (95.25)	1.02 (25.91)	.50 (12.70)	.750 (19.05)	2.250 (57.15)	.151 (3.84)	.25 (6.35)	.094 (2.40)	.52 (13.21)	105

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
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