DC Pass, High Power

Power Splitter/Combiner ZC16PD-K1844+

16 Way-0° 50Ω 18000 to 40000 MHz

The Big Deal

- Ultra wideband, 18 to 40 GHz
- High Isolation, 22 dB typ.
- 20W power handling
- Low amplitude unbalance, 0.2 dB typ.

CASE STYLE: UU640-2

Product Overview

Mini-Circuits' ZC16PD-K1844+ is a ultra wideband 16-way 0˚ splitter/combiner providing coverage from 18 to 40 GHz, supporting a wide range of applications including 5G, K-Band, Ka-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 ZC16PD-K1844+ comes housed in a case measuring 8.27 x 1.42 x 0.5" with 2.92mm connectors.

Key Features

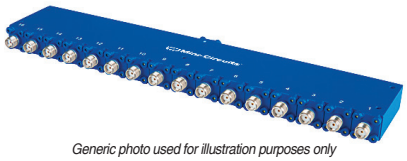
Feature	Advantages
Ultra-wideband, 18 to 40 GHz	Extremely wide frequency range supports many broadband applications in a single model.
High isolation, 22 dB typ.	Minimizes interference between ports.
High power handling: • 20W as a splitter at 25°C • 1.35W as a combiner	The ZC16PD-K1844+ is suitable 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, 447mA	Supports applications where DC power is needed through the RF line.

DC Pass, High Power

Power Splitter/Combiner

ZC16PD-K1844+

16 Way-0° 50Ω 18000 to 40000 MHz



Generic photo used for illustration purposes only

CASE STYLE: UU640-2

Connectors	Model
2.92mm-Fem	ZC16PD-K1844+

+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	1.35W max.
DC Current	447 mA

Permanent damage may occur if any of these limits are exceeded.
* Derate linearly to 10W at 100°C

Coaxial Connections

Sum Port	S
Port 1-16	1-16

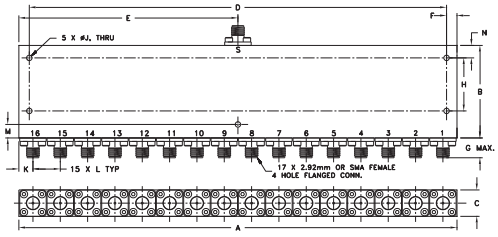
Features

- Ultra wideband, 18000 - 40000 MHz
- Low amplitude unbalance, 0.2 dB typ.
- Excellent VSWR, 1.36:1 typ.
- High isolation, 22 dB typ.

Applications

- Fixed satellite
- 5G
- Mobile
- Space research

Outline Drawing



Outline Dimensions (inch / mm)

A	B	C	D	E	F	G
8.27	1.42	.50	7.953	4.13	.157	.43
210	36.1	12.70	202.0	105	4.0	11

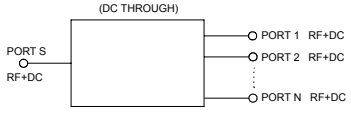
H	J	K	L	M	wt
.945	.10	.27	.52	.394	grams
24.0	2.5	6.86	13.21	10.0	350

Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		18000		40000	MHz
Insertion Loss Above 12.0 dB	18000-26500		3.1	4	dB
	26500-40000		4.1	5	
Isolation	18000-26500	16	22		dB
	26500-40000	16	24		
Phase Unbalance (±)[1]	18000-26500		5.9	10	Degree
	26500-40000		8.8	15	
Amplitude Unbalance (±)[1]	18000-26500		0.2	0.4	dB
	26500-40000		0.3	0.6	
VSWR (Port S)	18000-26500		1.36	1.8	:1
	26500-40000		1.21	1.8	
VSWR (Port 1-16)	18000-26500		1.38	1.8	:1
	26500-40000		1.26	1.8	

1. With reference to average

Electrical Schematic

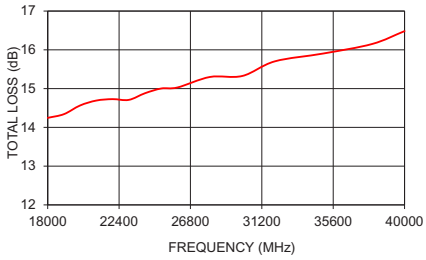


Typical Performance Data

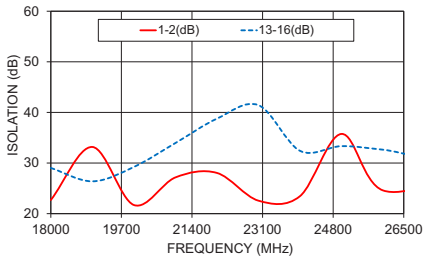
Freq. (MHz)	Total Loss[1] (dB)	Amplitude Unbalance (dB)	Isolation (dB)		Phase Unbalance (deg.)	VSWR S	VSWR 1
	S-1		1-2	13-16			
18000	14.24	0.10	22.69	29.03	1.90	1.07	1.03
19000	14.34	0.13	33.18	26.39	2.28	1.18	1.21
20000	14.56	0.12	21.71	29.23	3.06	1.30	1.20
21000	14.69	0.14	27.16	33.95	2.61	1.19	1.36
22000	14.73	0.12	28.05	38.77	2.55	1.17	1.36
23000	14.71	0.14	22.56	41.44	2.73	1.09	1.20
24000	14.88	0.18	23.45	32.42	3.32	1.08	1.16
25000	15.00	0.14	35.75	33.34	3.65	1.20	1.07
26000	15.03	0.16	24.59	32.64	2.88	1.09	1.02
28000	15.30	0.26	27.17	30.80	3.58	1.24	1.22
30000	15.33	0.27	26.01	40.28	3.26	1.04	1.21
32000	15.70	0.39	27.74	49.46	3.36	1.20	1.14
35000	15.91	0.53	29.04	33.14	3.50	1.02	1.08
38000	16.15	0.47	33.15	38.66	3.50	1.12	1.26
40000	16.48	0.43	39.57	34.31	4.92	1.13	1.19

1. Total Loss = Insertion Loss +12dB splitter loss.

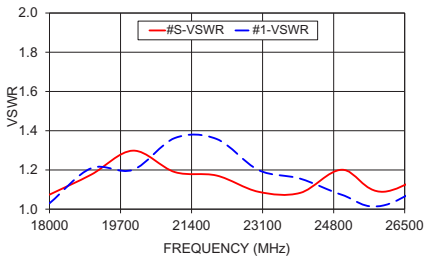
ZC16PD-K1844+
TOTAL LOSS[1]



ZC16PD-K1844+
ISOLATION



ZC16PD-K1844+
VSWR



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

16 Way-0° Power Splitter/Combiner ZC16PD-K1844+

Typical Performance Data

Data tested at 25DegC

FREQ. (MHz)	TOTAL LOSS[1] (dB)						AMP. UNBAL. (dB)	ISOLATION (dB)				PHASE UNBAL. (deg.)
	S-1	S-5	S-8	S-9	S-13	S-16		1-2	5-7	9-11	13-16	
16000	14.11	13.97	13.99	14.10	14.00	13.97	0.15	20.65	31.76	35.73	30.72	1.95
16500	14.16	14.11	14.14	14.14	14.10	14.08	0.11	36.27	33.90	32.26	34.42	2.02
17000	14.16	14.08	14.10	14.16	14.08	14.05	0.12	29.12	28.73	28.04	28.60	2.26
17500	14.22	14.18	14.19	14.21	14.19	14.16	0.09	30.17	23.76	24.09	23.56	1.80
18000	14.24	14.19	14.22	14.23	14.23	14.20	0.10	22.69	29.91	30.63	29.03	1.90
18500	14.32	14.31	14.31	14.31	14.30	14.27	0.13	24.64	35.49	40.30	34.70	2.76
19000	14.34	14.34	14.34	14.32	14.32	14.29	0.13	33.18	27.53	26.01	26.39	2.28
19500	14.43	14.37	14.37	14.39	14.39	14.37	0.11	26.79	29.55	27.62	28.04	2.01
20000	14.56	14.52	14.55	14.54	14.58	14.55	0.12	21.71	30.46	29.12	29.23	3.06
20500	14.53	14.43	14.46	14.49	14.46	14.43	0.11	23.73	40.21	35.76	35.91	2.83
21000	14.69	14.55	14.59	14.63	14.62	14.60	0.14	27.16	37.01	33.93	33.95	2.61
21500	14.70	14.55	14.59	14.65	14.66	14.63	0.16	25.63	32.91	30.18	30.93	2.58
22000	14.73	14.63	14.67	14.68	14.70	14.67	0.12	28.05	38.93	35.79	38.77	2.55
22500	14.69	14.60	14.64	14.66	14.68	14.65	0.14	23.66	49.66	39.26	46.35	2.39
23000	14.71	14.70	14.72	14.69	14.73	14.71	0.14	22.56	37.35	47.82	41.44	2.73
23500	14.77	14.69	14.68	14.75	14.75	14.72	0.16	23.79	31.81	36.88	34.42	3.49
24000	14.88	14.74	14.77	14.84	14.82	14.79	0.18	23.45	31.44	35.58	32.42	3.32
24500	14.99	14.88	14.94	14.97	14.93	14.91	0.15	27.88	37.99	43.51	37.88	3.08
25000	15.00	14.89	14.91	14.97	14.96	14.93	0.14	35.75	33.65	35.68	33.34	3.65
25500	15.04	14.94	14.97	15.04	15.03	15.00	0.17	30.13	27.96	28.65	28.54	2.96
26000	15.03	14.93	14.97	15.01	15.01	14.98	0.16	24.59	31.54	32.65	32.64	2.88
26500	15.12	15.04	15.09	15.12	15.20	15.17	0.24	25.60	34.04	36.11	34.44	3.27
27000	15.09	15.00	15.04	15.07	15.11	15.08	0.18	34.75	30.61	29.77	30.01	3.29
27500	15.21	15.12	15.16	15.19	15.19	15.17	0.19	29.28	29.89	30.41	30.19	2.99
28000	15.30	15.20	15.26	15.29	15.36	15.33	0.26	27.17	30.37	31.39	30.80	3.58
28500	15.33	15.17	15.24	15.31	15.32	15.29	0.25	25.30	36.35	34.81	35.67	3.40
29000	15.35	15.27	15.35	15.35	15.38	15.36	0.22	29.82	38.72	32.95	33.14	3.23
29500	15.35	15.25	15.33	15.34	15.42	15.39	0.30	27.71	32.63	30.51	30.64	3.67
30000	15.33	15.30	15.39	15.32	15.43	15.41	0.27	26.01	45.16	39.93	40.28	3.26
31000	15.48	15.41	15.51	15.50	15.58	15.55	0.34	25.55	36.83	35.41	36.54	3.72
32000	15.70	15.49	15.62	15.73	15.75	15.72	0.39	27.74	46.93	48.03	49.46	3.36
33000	15.76	15.59	15.73	15.79	15.88	15.86	0.44	25.89	39.62	45.46	40.45	3.86
34000	15.77	15.72	15.90	15.75	16.01	15.99	0.49	23.70	38.29	40.76	41.81	3.60
35000	15.91	15.77	15.97	15.91	16.10	16.08	0.53	29.04	33.11	32.83	33.14	3.50
36000	16.13	15.86	16.09	16.13	16.26	16.23	0.59	24.41	35.71	35.54	34.65	4.22
37000	16.15	16.02	16.27	16.18	16.42	16.39	0.54	27.84	37.89	35.82	34.90	3.63
38000	16.15	16.02	16.30	16.26	16.47	16.44	0.47	33.15	37.61	38.77	38.66	3.50
39000	16.28	16.06	16.36	16.46	16.52	16.49	0.46	28.43	35.11	33.52	33.89	4.67
40000	16.48	16.21	16.60	16.64	16.60	16.58	0.43	39.57	35.09	34.08	34.31	4.92
43500	17.02	16.54	17.07	17.38	16.98	16.95	0.84	32.15	32.30	35.22	32.89	5.56

FREQ. (MHz)	VSWR (:1)		
	S	1	16
16000	1.13	1.27	1.21
16500	1.14	1.27	1.27
17000	1.12	1.13	1.20
17500	1.22	1.12	1.20
18000	1.07	1.03	1.07
18500	1.25	1.21	1.22
19000	1.18	1.21	1.31
19500	1.20	1.24	1.33
20000	1.30	1.20	1.25
20500	1.11	1.26	1.32
21000	1.19	1.36	1.43
21500	1.15	1.37	1.40
22000	1.17	1.36	1.35
22500	1.07	1.24	1.24
23000	1.09	1.20	1.19
23500	1.07	1.18	1.12
24000	1.08	1.16	1.06
24500	1.27	1.15	1.03
25000	1.20	1.07	1.07
25500	1.19	1.05	1.11
26000	1.09	1.02	1.12
26500	1.23	1.13	1.14
27000	1.13	1.19	1.26
27500	1.11	1.20	1.28
28000	1.24	1.22	1.28
28500	1.07	1.23	1.28
29000	1.07	1.31	1.31
29500	1.05	1.26	1.25
30000	1.04	1.21	1.17
31000	1.11	1.17	1.10
32000	1.20	1.14	1.02
33000	1.22	1.06	1.10
34000	1.07	1.08	1.05
35000	1.02	1.08	1.13
36000	1.08	1.14	1.09
37000	1.06	1.22	1.10
38000	1.12	1.26	1.11
39000	1.06	1.18	1.06
40000	1.13	1.19	1.11
43500	1.34	1.17	1.14

[1]Total Loss = Insertion Loss + 12dB Splitter Loss

16 Way-0° Power Splitter/Combiner ZC16PD-K1844+

Typical Performance Data

Data tested at -55DegC

FREQ. (MHz)	TOTAL LOSS[1] (dB)						AMP. UNBAL. (dB)	ISOLATION (dB)				PHASE UNBAL. (deg.)
	S-1	S-5	S-8	S-9	S-13	S-16		1-2	5-7	9-11	13-16	
16000	13.94	13.99	14.02	14.10	14.06	14.04	0.17	21.03	32.84	44.91	30.98	1.05
16500	14.01	14.10	14.11	14.09	14.10	14.08	0.11	39.87	33.16	41.72	34.42	0.98
17000	14.02	14.10	14.13	14.14	14.12	14.10	0.14	28.69	28.23	38.09	28.52	1.03
17500	14.16	14.12	14.17	14.21	14.20	14.18	0.11	28.61	23.92	34.66	23.52	1.09
18000	14.11	14.23	14.23	14.21	14.26	14.25	0.20	23.08	29.91	40.92	29.05	1.10
18500	14.23	14.31	14.32	14.34	14.32	14.31	0.14	25.16	38.92	55.14	35.30	1.12
19000	14.26	14.24	14.28	14.29	14.30	14.28	0.13	34.33	27.32	36.46	26.31	1.35
19500	14.23	14.40	14.39	14.36	14.39	14.38	0.21	26.84	29.14	37.67	27.89	1.21
20000	14.44	14.46	14.52	14.51	14.56	14.54	0.17	21.48	31.53	39.52	29.43	1.09
20500	14.36	14.41	14.45	14.47	14.46	14.45	0.16	24.43	39.62	45.82	35.94	1.16
21000	14.47	14.53	14.58	14.62	14.62	14.60	0.19	27.43	36.24	43.80	33.86	1.18
21500	14.55	14.59	14.60	14.63	14.68	14.66	0.17	26.35	33.17	39.98	30.69	1.20
22000	14.62	14.62	14.66	14.67	14.69	14.68	0.13	27.82	38.74	45.95	39.07	1.18
22500	14.60	14.62	14.65	14.66	14.69	14.67	0.15	23.13	45.56	50.24	45.75	1.20
23000	14.66	14.70	14.70	14.70	14.73	14.71	0.15	22.56	37.91	58.28	42.46	1.22
23500	14.69	14.73	14.70	14.75	14.75	14.73	0.14	23.64	32.01	47.30	34.11	1.26
24000	14.78	14.71	14.75	14.89	14.83	14.81	0.20	23.38	31.16	46.20	32.04	1.30
24500	14.81	14.80	14.84	14.88	14.86	14.85	0.17	29.76	38.93	52.41	38.22	1.35
25000	14.76	14.88	14.86	14.89	14.88	14.87	0.19	34.94	34.38	47.84	33.51	1.41
25500	14.88	14.80	14.85	14.96	14.94	14.92	0.20	30.87	27.73	39.52	28.07	1.44
26000	14.86	14.91	14.93	14.97	14.98	14.97	0.22	25.17	31.21	42.64	32.40	1.45
26500	14.96	14.99	14.99	15.02	15.09	15.07	0.20	26.79	36.82	49.51	35.03	1.48
27000	14.99	14.95	14.97	15.03	15.03	15.01	0.15	34.37	30.43	40.74	29.68	1.48
27500	15.02	15.07	15.09	15.10	15.12	15.11	0.20	29.58	29.20	40.44	29.75	1.50
28000	15.10	15.13	15.14	15.21	15.25	15.24	0.23	26.31	31.36	43.26	31.06	1.53
28500	15.14	15.13	15.15	15.26	15.24	15.22	0.19	25.94	36.92	46.54	35.62	1.55
29000	15.21	15.21	15.24	15.29	15.29	15.28	0.22	31.12	38.16	42.38	32.81	1.60
29500	15.23	15.23	15.24	15.29	15.34	15.33	0.26	28.37	32.89	39.57	30.73	1.64
30000	15.22	15.25	15.26	15.27	15.33	15.31	0.31	25.42	43.26	47.19	40.80	1.75
31000	15.29	15.35	15.36	15.43	15.45	15.44	0.30	25.41	38.18	45.45	36.48	1.86
32000	15.36	15.39	15.44	15.59	15.53	15.52	0.27	28.72	46.19	56.68	49.00	1.95
33000	15.45	15.49	15.53	15.65	15.64	15.64	0.30	25.67	40.07	66.41	40.37	2.04
34000	15.62	15.68	15.73	15.66	15.77	15.76	0.35	24.44	37.04	53.30	41.55	2.14
35000	15.73	15.68	15.77	15.81	15.84	15.82	0.29	29.06	33.56	42.63	33.31	2.24
36000	15.76	15.76	15.81	15.95	15.90	15.89	0.30	24.19	36.14	45.12	34.35	2.31
37000	15.87	15.96	16.02	15.96	16.06	16.05	0.44	29.60	38.96	45.66	35.47	2.37
38000	15.97	15.96	16.03	15.99	16.12	16.11	0.39	31.63	35.62	48.63	37.84	2.36
39000	16.03	16.07	16.08	16.22	16.21	16.19	0.35	28.25	36.70	42.70	34.14	2.54
40000	16.12	16.12	16.20	16.29	16.35	16.34	0.46	44.58	34.64	41.94	33.89	2.58
43500	16.54	16.45	16.56	16.70	16.84	16.83	0.71	30.28	34.74	43.04	33.27	3.06

FREQ. (MHz)	VSWR (:1)		
	S	1	16
16000	1.20	1.29	1.23
16500	1.07	1.25	1.26
17000	1.10	1.11	1.19
17500	1.25	1.11	1.20
18000	1.02	1.04	1.06
18500	1.29	1.22	1.25
19000	1.07	1.19	1.30
19500	1.11	1.21	1.32
20000	1.24	1.15	1.22
20500	1.07	1.26	1.33
21000	1.15	1.34	1.43
21500	1.14	1.37	1.42
22000	1.20	1.34	1.36
22500	1.13	1.22	1.24
23000	1.17	1.20	1.20
23500	1.16	1.16	1.13
24000	1.24	1.15	1.08
24500	1.18	1.14	1.03
25000	1.09	1.06	1.06
25500	1.11	1.05	1.12
26000	1.07	1.03	1.12
26500	1.16	1.15	1.15
27000	1.06	1.17	1.26
27500	1.04	1.19	1.29
28000	1.18	1.19	1.28
28500	1.06	1.24	1.31
29000	1.07	1.29	1.34
29500	1.12	1.26	1.30
30000	1.12	1.19	1.19
31000	1.13	1.16	1.13
32000	1.08	1.13	1.02
33000	1.09	1.07	1.10
34000	1.06	1.07	1.06
35000	1.10	1.09	1.15
36000	1.08	1.13	1.15
37000	1.12	1.26	1.18
38000	1.12	1.25	1.18
39000	1.15	1.18	1.07
40000	1.10	1.16	1.10
43500	1.40	1.19	1.15

[1]Total Loss = Insertion Loss + 12dB Splitter Loss

16 Way-0° Power Splitter/Combiner ZC16PD-K1844+

Typical Performance Data

Data tested at 100DegC

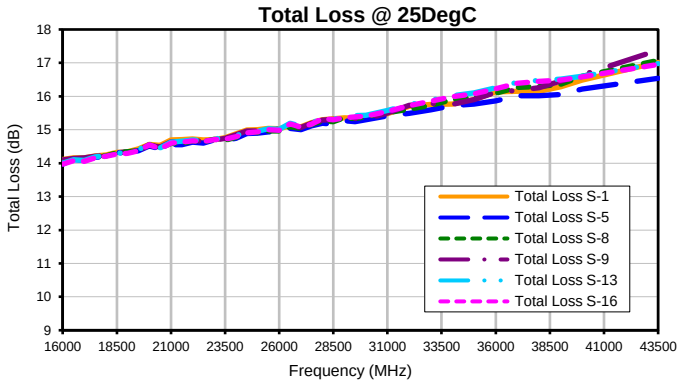
FREQ. (MHz)	TOTAL LOSS[1] (dB)						AMP. UNBAL. (dB)	ISOLATION (dB)				PHASE UNBAL. (deg.)
	S-1	S-5	S-8	S-9	S-13	S-16		1-2	5-7	9-11	13-16	
16000	13.99	14.03	14.02	14.06	14.01	13.97	0.16	20.58	31.67	35.67	30.74	4.09
16500	14.17	14.18	14.18	14.19	14.12	14.08	0.15	34.30	34.53	32.52	34.77	3.96
17000	14.11	14.16	14.13	14.19	14.08	14.03	0.21	30.05	28.94	28.38	28.62	4.16
17500	14.24	14.18	14.18	14.19	14.17	14.14	0.18	31.65	23.49	23.93	23.24	4.57
18000	14.27	14.30	14.29	14.34	14.26	14.21	0.16	22.77	30.12	30.91	29.16	5.15
18500	14.34	14.37	14.33	14.33	14.30	14.26	0.21	24.23	34.78	40.06	34.48	5.05
19000	14.39	14.39	14.36	14.36	14.35	14.32	0.21	33.26	27.35	25.94	26.07	4.86
19500	14.43	14.49	14.45	14.48	14.44	14.38	0.21	26.89	29.31	27.41	27.65	4.98
20000	14.57	14.57	14.57	14.53	14.60	14.56	0.23	21.81	30.53	29.30	29.22	5.02
20500	14.48	14.49	14.49	14.49	14.47	14.43	0.21	23.67	40.70	35.91	36.01	5.25
21000	14.60	14.60	14.61	14.60	14.64	14.59	0.23	26.99	36.86	33.28	33.11	5.16
21500	14.65	14.64	14.65	14.68	14.67	14.63	0.24	25.49	32.97	30.30	30.84	5.37
22000	14.71	14.68	14.69	14.67	14.70	14.66	0.19	27.82	40.64	36.35	39.32	5.25
22500	14.69	14.69	14.70	14.66	14.69	14.65	0.21	23.97	46.96	37.94	43.11	5.62
23000	14.78	14.78	14.77	14.71	14.75	14.71	0.19	22.75	37.91	52.48	42.53	5.85
23500	14.79	14.83	14.79	14.76	14.77	14.73	0.24	24.01	31.57	36.74	34.03	6.22
24000	14.83	14.80	14.79	14.76	14.83	14.79	0.30	23.59	31.73	36.16	32.53	6.68
24500	15.06	15.03	15.04	15.03	14.99	14.93	0.25	27.14	38.40	46.56	38.72	6.42
25000	14.97	15.03	15.00	14.97	14.97	14.92	0.25	36.81	33.33	35.80	32.90	6.41
25500	15.04	15.01	15.00	14.88	15.04	15.00	0.34	30.25	27.81	28.60	28.09	6.46
26000	15.03	15.05	15.03	14.93	15.05	14.99	0.30	24.64	31.86	33.18	32.63	7.08
26500	15.17	15.15	15.16	15.01	15.21	15.16	0.39	25.43	33.42	35.93	33.71	6.59
27000	15.14	15.14	15.13	15.01	15.15	15.11	0.33	35.52	30.41	29.78	29.45	6.60
27500	15.21	15.21	15.20	15.13	15.23	15.17	0.32	29.34	29.89	30.51	29.72	6.96
28000	15.32	15.35	15.37	15.31	15.40	15.36	0.30	27.34	30.35	31.67	30.44	7.01
28500	15.28	15.28	15.30	15.28	15.32	15.27	0.33	25.24	35.95	35.20	35.27	7.00
29000	15.39	15.38	15.42	15.36	15.41	15.35	0.31	29.71	37.99	32.76	32.40	7.10
29500	15.39	15.39	15.43	15.35	15.43	15.39	0.34	27.73	32.79	30.86	30.42	7.58
30000	15.43	15.45	15.48	15.35	15.45	15.40	0.32	26.26	47.01	40.76	39.73	7.65
31000	15.57	15.60	15.66	15.50	15.61	15.56	0.30	25.78	36.61	35.70	36.26	8.73
32000	15.68	15.66	15.78	15.73	15.78	15.73	0.36	27.50	48.05	45.84	46.64	8.30
33000	15.78	15.78	15.92	15.83	15.92	15.87	0.37	26.18	39.30	45.98	40.23	8.31
34000	15.89	15.89	16.08	15.80	16.03	15.97	0.39	23.66	38.94	41.54	42.05	9.00
35000	15.95	15.92	16.18	15.90	16.14	16.08	0.43	29.37	33.05	33.35	32.92	9.55
36000	16.08	16.08	16.38	16.14	16.29	16.24	0.38	24.72	35.26	36.10	34.19	8.72
37000	16.21	16.18	16.52	16.14	16.41	16.36	0.42	27.77	37.66	36.57	34.62	8.25
38000	16.29	16.21	16.48	16.14	16.43	16.37	0.49	34.52	37.33	39.61	37.81	8.43
39000	16.32	16.31	16.54	16.43	16.45	16.40	0.38	28.45	35.52	34.69	34.04	8.86
40000	16.47	16.45	16.67	16.48	16.53	16.49	0.41	38.55	34.75	34.37	33.80	8.34
43500	16.75	16.66	16.76	16.76	16.79	16.75	0.57	32.09	32.13	35.62	32.69	9.08

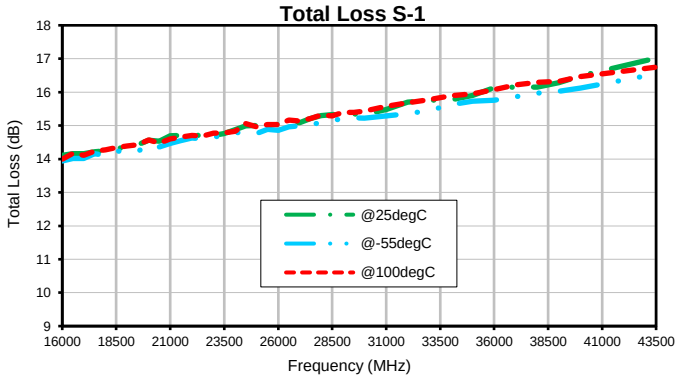
FREQ. (MHz)	VSWR (:1)		
	S	1	16
16000	1.09	1.25	1.20
16500	1.18	1.27	1.27
17000	1.11	1.14	1.21
17500	1.19	1.12	1.21
18000	1.13	1.02	1.08
18500	1.23	1.18	1.21
19000	1.24	1.21	1.32
19500	1.25	1.23	1.33
20000	1.31	1.21	1.25
20500	1.12	1.26	1.33
21000	1.19	1.37	1.45
21500	1.14	1.37	1.42
22000	1.13	1.37	1.37
22500	1.02	1.25	1.25
23000	1.03	1.19	1.19
23500	1.07	1.17	1.12
24000	1.04	1.15	1.06
24500	1.34	1.16	1.04
25000	1.25	1.08	1.06
25500	1.22	1.04	1.11
26000	1.13	1.01	1.14
26500	1.25	1.10	1.14
27000	1.17	1.20	1.29
27500	1.15	1.20	1.31
28000	1.25	1.23	1.30
28500	1.05	1.23	1.29
29000	1.06	1.30	1.33
29500	1.01	1.26	1.28
30000	1.06	1.22	1.20
31000	1.16	1.17	1.12
32000	1.27	1.14	1.01
33000	1.26	1.05	1.11
34000	1.10	1.09	1.07
35000	1.08	1.08	1.16
36000	1.17	1.13	1.11
37000	1.14	1.21	1.13
38000	1.18	1.29	1.11
39000	1.09	1.19	1.03
40000	1.15	1.17	1.07
43500	1.24	1.19	1.18

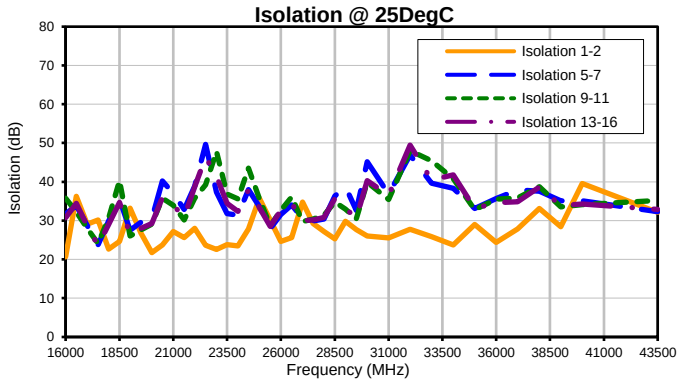
[1]Total Loss = Insertion Loss + 12dB Splitter Loss

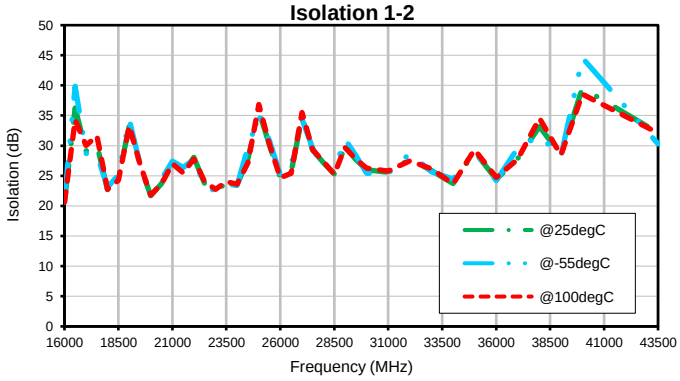
16 Way-0° Power Splitter/Combiner ZC16PD-K1844+

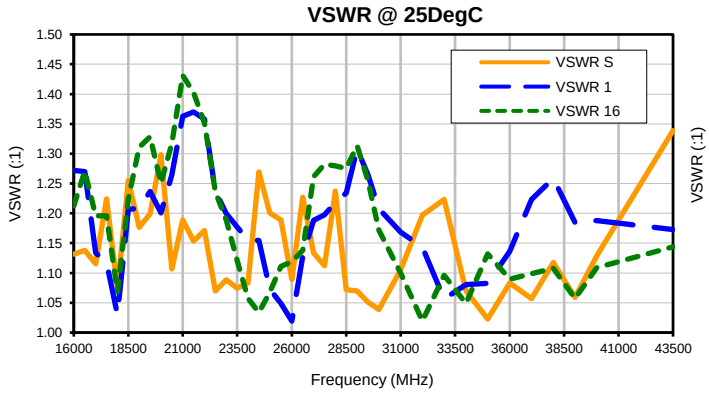
Typical Performance Curves

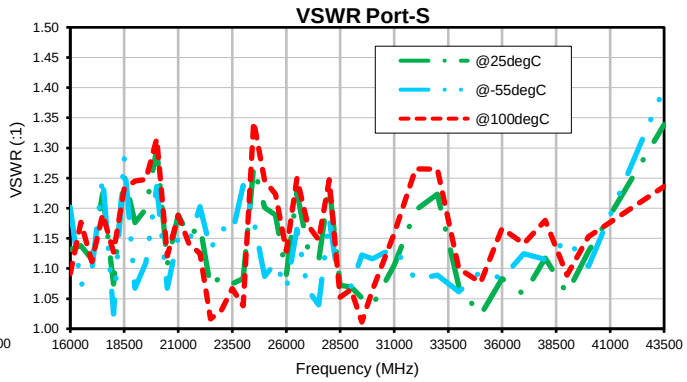


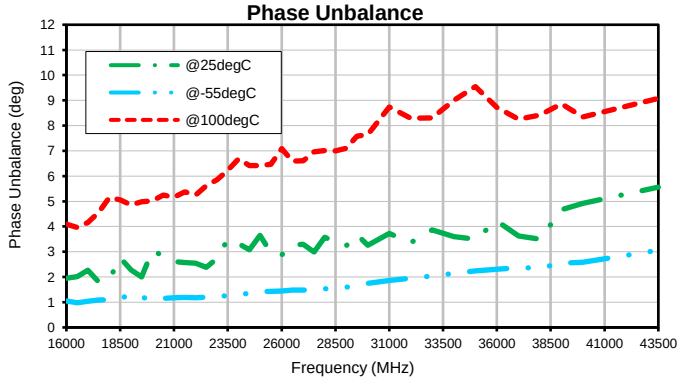


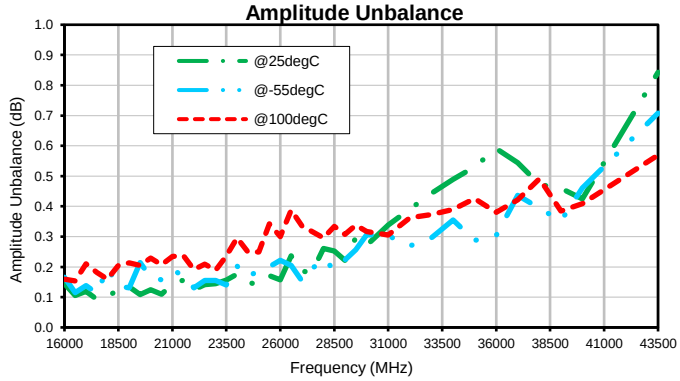








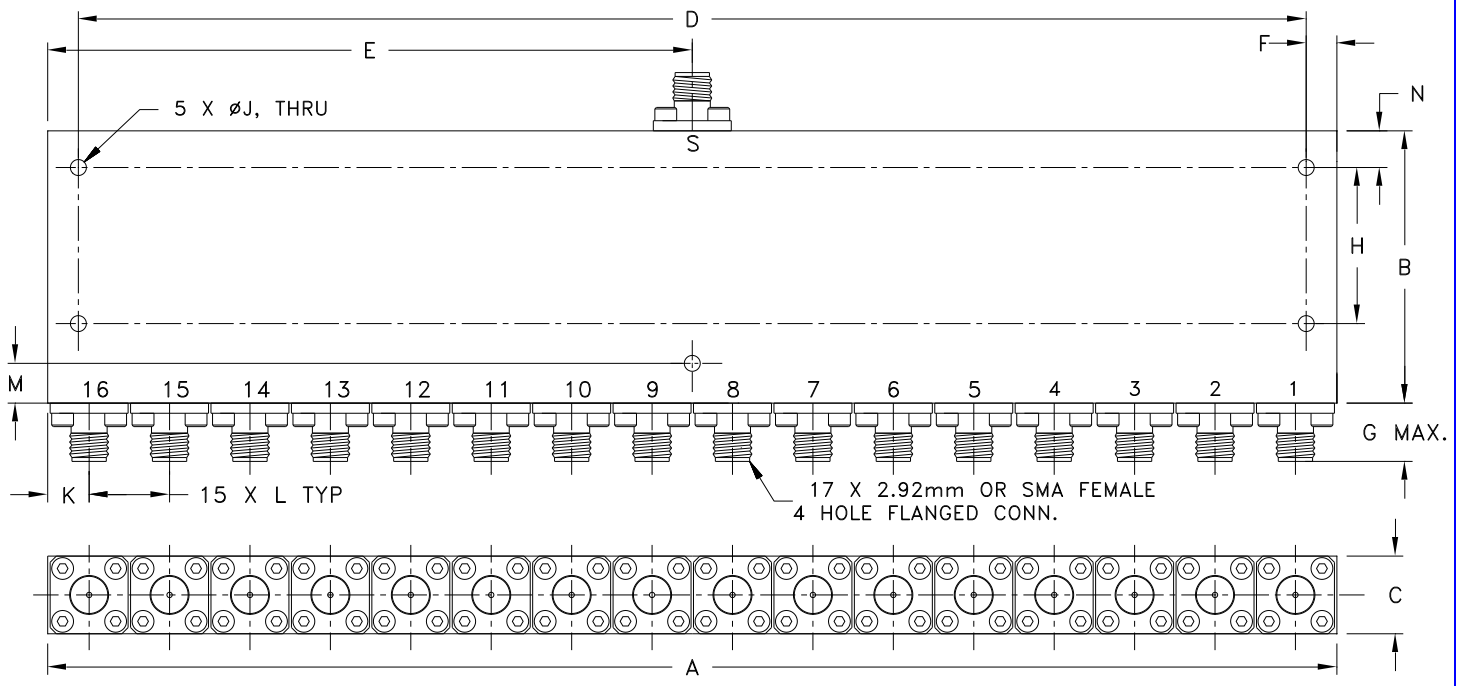




Case Style UU

Outline Dimensions

UU640-2



CASE#	A	B	C	D	E	F	G	H	J	K	L	M
UU640-2	8.27 (210.00)	1.42 (36.00)	.50 (12.70)	7.953 (202.00)	4.13 (105.00)	.157 (4.00)	.43 (11.0)	.945 (24.00)	.10 (2.60)	.27 (6.75)	.52 (13.10)	.394 (10.00)

CASE#	N	WT. GRAMS
UU640-2	.236 (6.0)	350

Dimensions are in inches (mm). Tolerances: 2 Pl. ± .03; 3 Pl. ± .015

Notes:

1. Case material: Aluminum alloy.
2. Case finish:
   For RoHS Case Styles: Clear chemical conversion coating, non-chrome or trivalent chrome based.
3. Refer to the individual model data sheet for the type of connectors available.

Mini-Circuits

Environmental Specifications ENV29

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