DC PASS, HIGH POWER

Power Splitter/Combiner ZN16PD-0563-S+

16 Way-0° 50Ω 500 to 6000 MHz

THE BIG DEAL

- Wideband, 0.5 – 6 GHz
- High Isolation, 22 dB typ.
- 30W power handling
- Low amplitude unbalance, 0.3 dBtyp.

Generic photo used for illustration purposes only

Model No.	ZN16PD-0563-S+
Case Style	UU3178
Connectors	SMA-Female

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

APPLICATIONS

- Broadcasting
- Fixed Satellite
- Mobile

PRODUCT OVERVIEW

Mini-Circuits' ZN16PD-0563-S+ is a wideband 16-way 0° splitter/combiner providing coverage from 0.5 to 6 GHz, supporting a wide range of applications from S-Band, C-Band and many more. This model provides 30W 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 ZN16PD-0563-S+ is housed in a case measuring 9.5 x 9.0 x 0.55" with SMA connectors.

KEY FEATURES

Feature	Advantages
Ultra-wideband, 0.5 to 6 GHz	Wide frequency range supports many broadband applications in a single model.
High isolation, 22 dB typ.	Minimizes interference between ports.
High power handling: •30W as a splitter •2.5W as a combiner	The ZN16PD-0563-S+ is suitable for systems with a wide range of power requirements
Low amplitude unbalance, 0.3 dB	Produces nearly equal output signals, ideal for parallel path and multichannel systems.
DC Passing, 223mA	Supports applications where DC power is needed through the RF line.

DC PASS, HIGH POWER

Power Splitter/Combiner ZN16PD-0563-S+

MAXIMUM RATINGS

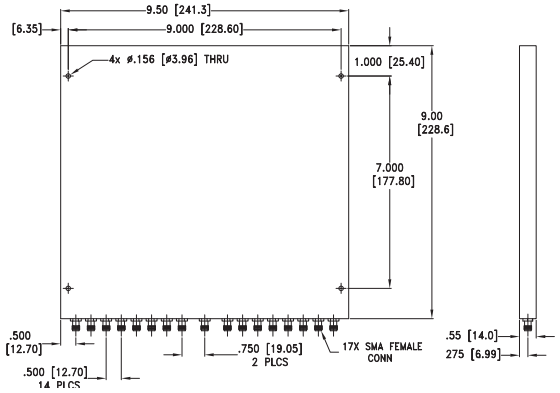
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	30W max.
Internal Dissipation	2.5W max.
DC Current	223 mA

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

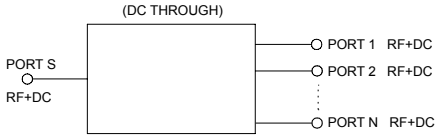
COAXIAL CONNECTIONS

Sum Port	S
Port 1-16	1-16

OUTLINE DRAWING



ELECTRICAL SCHEMATIC



ELECTRICAL SPECIFICATIONS AT 25°C

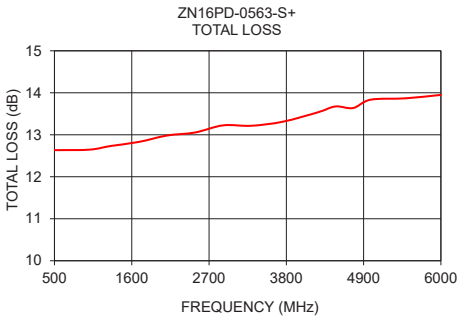
Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units
Frequency Range		500		6000	MHz
Insertion Loss Above 12.0 dB	500-6000		1.5	4.5	dB
Isolation	500-600	16	27	-	dB
	600-6000	18	28	-	
Phase Unbalance (±)[1]	500-6000	-	4	16	Degree
Amplitude Unbalance (±)[1]	500-6000	-	0.3	1.2	dB
VSWR (Port S)	500-6000	-	1.12	2.0	:1
VSWR (Port 1-16)	500-6000	-	1.06	1.4	:1

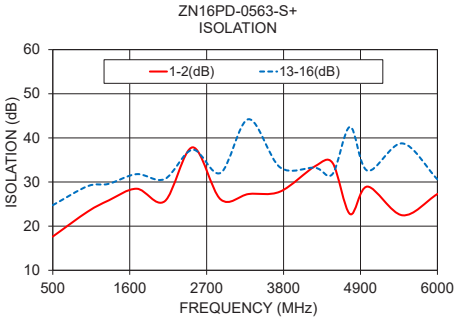
1. With reference to average.

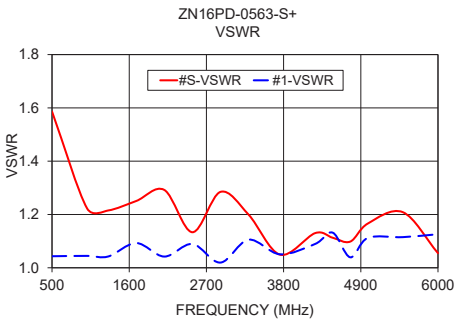
TYPICAL PERFORMANCE DATA

Frequency (MHz)	Insertion Loss (dB) S-1	Ampl. Unbal. (dB)	Isolation (dB) 1-2	Isolation (dB) 13-16	Phase Unbal. (deg.)	VSWR S	VSWR 1
500	12.63	0.10	17.65	24.76	0.89	1.59	1.04
1000	12.65	0.09	23.30	29.07	1.69	1.22	1.04
1300	12.73	0.08	25.84	29.59	1.79	1.22	1.04
1700	12.83	0.11	28.48	31.79	2.37	1.25	1.09
2100	12.98	0.11	25.64	30.67	2.42	1.29	1.04
2500	13.05	0.23	37.86	37.32	2.85	1.13	1.09
2900	13.22	0.26	26.07	32.07	3.60	1.28	1.02
3300	13.21	0.19	27.28	44.23	3.39	1.20	1.11
3750	13.31	0.20	27.83	33.32	3.63	1.05	1.05
4250	13.54	0.27	33.58	33.24	3.87	1.13	1.09
4500	13.67	0.22	34.34	31.81	4.76	1.11	1.13
4750	13.64	0.32	22.75	42.50	3.96	1.10	1.04
5000	13.84	0.42	28.97	32.57	4.47	1.17	1.11
5500	13.87	0.41	22.46	38.75	4.47	1.21	1.11
6000	13.95	0.60	27.29	30.60	4.84	1.05	1.13

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







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 ZN16PD-0563-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-5	S-8	S-9	S-13	S-16		1-2	5-7	9-11	13-16			S	1	16
500	12.63	12.57	12.61	12.63	12.62	12.64	0.10	17.65	24.68	24.60	24.76	0.89	500	1.59	1.04	1.04
600	12.54	12.49	12.51	12.52	12.51	12.52	0.07	23.34	28.31	28.08	28.05	1.06	600	1.35	1.05	1.05
700	12.47	12.44	12.47	12.48	12.47	12.47	0.07	29.32	33.61	33.55	34.26	1.25	700	1.08	1.08	1.09
800	12.58	12.55	12.58	12.59	12.57	12.57	0.06	35.68	40.91	40.66	40.94	1.53	800	1.29	1.14	1.15
900	12.61	12.57	12.59	12.58	12.57	12.58	0.07	26.52	31.38	31.70	31.09	1.76	900	1.23	1.10	1.12
1000	12.65	12.62	12.63	12.62	12.59	12.61	0.09	23.30	28.71	28.98	29.07	1.69	1000	1.22	1.04	1.06
1100	12.65	12.62	12.63	12.66	12.63	12.66	0.08	23.00	29.28	28.72	28.66	1.71	1100	1.20	1.02	1.04
1200	12.72	12.68	12.71	12.73	12.74	12.73	0.08	23.38	29.47	28.59	28.97	2.02	1200	1.29	1.03	1.04
1300	12.73	12.71	12.78	12.79	12.78	12.75	0.08	25.84	29.83	29.60	29.59	1.79	1300	1.22	1.04	1.05
1400	12.70	12.70	12.76	12.77	12.72	12.71	0.11	25.88	33.42	33.55	33.58	1.94	1400	1.12	1.03	1.05
1500	12.71	12.73	12.77	12.78	12.72	12.71	0.11	27.40	35.52	35.59	35.40	2.24	1500	1.08	1.05	1.06
1600	12.75	12.77	12.79	12.79	12.75	12.76	0.09	33.95	44.29	44.75	45.09	2.39	1600	1.04	1.10	1.11
1700	12.83	12.85	12.87	12.89	12.83	12.84	0.11	28.48	32.04	32.55	31.79	2.37	1700	1.25	1.09	1.09
1800	12.84	12.88	12.93	12.93	12.84	12.83	0.13	24.57	30.66	31.79	31.53	2.55	1800	1.21	1.05	1.05
1900	12.86	12.90	12.95	12.98	12.90	12.88	0.15	23.62	29.77	30.31	30.09	2.55	1900	1.21	1.00	1.01
2000	12.89	12.90	12.95	12.98	12.93	12.93	0.12	24.92	30.53	29.63	30.46	2.50	2000	1.19	1.03	1.04
2100	12.98	12.98	13.05	13.04	12.99	12.98	0.11	25.64	31.37	29.91	30.67	2.42	2100	1.29	1.04	1.07
2200	12.91	12.99	12.98	12.97	12.94	12.91	0.14	28.36	30.76	29.93	31.01	2.94	2200	1.03	1.05	1.08
2300	12.92	13.08	13.05	13.04	13.00	12.92	0.21	27.36	31.63	31.12	31.91	3.14	2300	1.12	1.03	1.05
2400	13.01	13.20	13.22	13.23	13.16	13.04	0.23	27.18	42.84	41.14	45.95	3.12	2400	1.15	1.08	1.10
2500	13.05	13.20	13.26	13.24	13.16	13.06	0.23	37.86	39.32	42.07	37.32	2.85	2500	1.13	1.09	1.11
2600	13.03	13.14	13.17	13.16	13.08	13.04	0.18	32.57	35.41	38.62	36.26	2.90	2600	1.07	1.07	1.09
2700	13.09	13.22	13.26	13.26	13.12	13.11	0.21	26.61	31.35	32.32	31.36	2.80	2700	1.18	1.02	1.03
2800	13.14	13.31	13.35	13.36	13.17	13.16	0.26	27.84	32.74	32.13	32.29	3.07	2800	1.13	1.02	1.03
2900	13.22	13.44	13.41	13.39	13.28	13.23	0.26	26.07	32.95	31.12	32.07	3.60	2900	1.28	1.02	1.04
3000	13.16	13.35	13.28	13.26	13.25	13.16	0.23	27.37	31.12	30.13	32.02	3.71	3000	1.08	1.04	1.05
3100	13.21	13.32	13.31	13.31	13.31	13.22	0.16	28.54	31.01	30.44	31.54	3.51	3100	1.23	1.04	1.05
3200	13.28	13.36	13.38	13.37	13.34	13.29	0.15	24.76	34.10	33.34	35.59	3.36	3200	1.30	1.05	1.07
3300	13.21	13.36	13.33	13.32	13.28	13.23	0.19	27.28	50.75	45.25	44.23	3.39	3300	1.20	1.11	1.12
3400	13.19	13.34	13.39	13.41	13.27	13.23	0.24	36.59	34.76	40.76	37.10	3.48	3400	1.06	1.10	1.12
3500	13.28	13.42	13.54	13.56	13.36	13.31	0.30	30.81	31.20	34.60	32.44	3.73	3500	1.03	1.07	1.08
3750	13.31	13.45	13.46	13.47	13.40	13.32	0.20	27.83	34.45	31.94	33.32	3.63	3750	1.05	1.05	1.06
4000	13.42	13.66	13.65	13.64	13.59	13.47	0.31	24.34	39.29	37.81	42.32	3.56	4000	1.17	1.01	1.05
4250	13.54	13.69	13.79	13.77	13.66	13.58	0.27	33.58	32.17	36.93	33.24	3.87	4250	1.13	1.09	1.10
4500	13.67	13.85	13.88	13.84	13.82	13.72	0.22	34.34	33.34	32.68	31.81	4.76	4500	1.11	1.13	1.10
4750	13.64	13.94	13.88	13.89	13.90	13.73	0.32	22.75	41.68	40.59	42.50	3.96	4750	1.10	1.04	1.02
5000	13.84	14.23	14.19	14.15	14.18	13.90	0.42	28.97	33.03	33.54	32.57	4.47	5000	1.17	1.11	1.07
5500	13.87	14.24	14.21	14.27	14.18	13.99	0.41	22.46	37.31	36.00	38.75	4.47	5500	1.21	1.11	1.10
6000	13.95	14.42	14.28	14.35	14.31	14.10	0.60	27.29	31.63	36.85	30.60	4.84	6000	1.05	1.13	1.10
6500	14.41	14.31	14.50	14.51	14.54	14.44	0.33	26.63	31.11	27.96	28.35	4.03	6500	1.09	1.12	1.12

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

16 Way-0° Power Splitter/Combiner ZN16PD-0563-S+

Typical Performance Data

Data tested at -40DegC

FREQ. (MHz)	TOTAL LOSS[1] (dB)						AMP. UNBAL. (dB)	ISOLATION (dB)				PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1)		
	S-1	S-5	S-8	S-9	S-13	S-16		1-2	5-7	9-11	13-16			S	1	16
500	12.56	12.50	12.52	12.53	12.54	12.53	0.10	17.85	24.89	24.81	24.90	1.32	500	1.56	1.04	1.04
600	12.48	12.43	12.44	12.46	12.45	12.45	0.08	23.72	28.86	28.60	28.59	1.55	600	1.35	1.07	1.06
700	12.43	12.39	12.42	12.43	12.40	12.40	0.06	30.04	33.91	33.86	34.43	1.71	700	1.13	1.10	1.11
800	12.52	12.48	12.52	12.52	12.50	12.50	0.07	36.68	40.95	40.68	40.83	2.04	800	1.30	1.16	1.17
900	12.52	12.48	12.49	12.49	12.47	12.48	0.08	26.41	31.34	31.70	31.17	2.31	900	1.18	1.10	1.12
1000	12.59	12.55	12.56	12.56	12.50	12.54	0.11	23.29	28.72	28.94	28.97	2.68	1000	1.25	1.05	1.07
1100	12.57	12.53	12.55	12.59	12.53	12.56	0.09	23.17	29.50	28.84	28.83	2.68	1100	1.19	1.04	1.05
1200	12.64	12.59	12.62	12.64	12.65	12.63	0.09	23.58	29.60	28.72	29.05	2.80	1200	1.30	1.04	1.06
1300	12.64	12.61	12.67	12.68	12.68	12.63	0.08	26.13	30.25	30.07	29.99	3.13	1300	1.20	1.05	1.07
1400	12.60	12.60	12.66	12.68	12.62	12.60	0.10	26.29	34.12	34.26	34.32	3.06	1400	1.14	1.05	1.07
1500	12.61	12.63	12.67	12.67	12.60	12.60	0.11	27.82	36.36	36.41	36.08	3.28	1500	1.07	1.07	1.08
1600	12.66	12.67	12.68	12.68	12.64	12.65	0.09	36.71	40.83	41.21	41.07	3.50	1600	1.07	1.12	1.13
1700	12.71	12.73	12.75	12.77	12.69	12.70	0.11	27.59	31.81	32.39	31.59	3.50	1700	1.24	1.08	1.08
1800	12.73	12.77	12.81	12.82	12.71	12.70	0.15	24.45	30.71	31.91	31.66	3.88	1800	1.20	1.03	1.04
1900	12.74	12.77	12.81	12.85	12.76	12.74	0.14	23.93	29.85	30.21	30.04	3.97	1900	1.20	1.02	1.04
2000	12.80	12.79	12.83	12.86	12.82	12.81	0.09	25.09	31.00	29.80	30.75	4.05	2000	1.24	1.04	1.06
2100	12.85	12.85	12.91	12.88	12.83	12.83	0.13	26.11	31.50	30.03	30.75	4.06	2100	1.27	1.06	1.09
2200	12.79	12.88	12.86	12.84	12.81	12.77	0.17	28.86	31.00	30.21	31.37	4.62	2200	1.07	1.07	1.09
2300	12.80	12.96	12.93	12.92	12.86	12.79	0.24	27.08	32.57	32.00	32.81	5.03	2300	1.13	1.05	1.07
2400	12.89	13.06	13.09	13.10	13.03	12.91	0.25	28.49	51.56	47.82	64.18	5.03	2400	1.19	1.11	1.13
2500	12.91	13.05	13.10	13.08	12.99	12.89	0.24	37.13	37.90	40.62	36.36	4.84	2500	1.11	1.09	1.11
2600	12.89	13.00	13.03	13.03	12.92	12.88	0.19	31.07	34.79	37.59	35.55	5.26	2600	1.09	1.07	1.09
2700	12.94	13.07	13.10	13.11	12.96	12.94	0.22	26.76	31.18	31.95	31.07	5.48	2700	1.18	1.03	1.03
2800	13.02	13.21	13.23	13.22	13.06	13.03	0.26	27.81	33.93	32.60	33.08	5.88	2800	1.19	1.04	1.05
2900	13.07	13.28	13.23	13.20	13.13	13.05	0.27	26.52	32.40	30.73	31.85	6.08	2900	1.27	1.05	1.08
3000	13.02	13.19	13.12	13.11	13.10	13.01	0.23	27.94	31.54	30.58	32.50	6.04	3000	1.13	1.06	1.08
3100	13.07	13.15	13.16	13.16	13.13	13.05	0.17	28.11	31.36	30.82	31.82	6.08	3100	1.25	1.04	1.06
3200	13.10	13.18	13.19	13.19	13.13	13.09	0.17	24.93	37.08	35.72	38.73	6.29	3200	1.29	1.09	1.11
3300	13.02	13.17	13.15	13.15	13.07	13.02	0.21	29.00	41.92	45.53	41.78	6.64	3300	1.15	1.12	1.14
3400	13.03	13.17	13.23	13.28	13.10	13.05	0.27	36.57	33.58	39.25	35.61	6.68	3400	1.04	1.10	1.12
3500	13.13	13.25	13.35	13.36	13.19	13.14	0.26	30.15	30.79	33.62	31.92	7.01	3500	1.06	1.07	1.08
3750	13.14	13.29	13.29	13.30	13.22	13.14	0.22	27.47	34.72	32.20	34.21	7.56	3750	1.07	1.03	1.06
4000	13.23	13.45	13.47	13.48	13.37	13.26	0.31	24.65	43.21	40.82	42.93	7.82	4000	1.20	1.05	1.09
4250	13.36	13.49	13.56	13.53	13.45	13.38	0.23	31.90	29.98	34.21	31.38	8.36	4250	1.12	1.07	1.08
4500	13.46	13.65	13.62	13.61	13.59	13.48	0.22	31.21	34.30	32.11	32.05	9.84	4500	1.10	1.11	1.08
4750	13.41	13.71	13.66	13.69	13.66	13.46	0.32	23.14	38.75	38.08	37.31	10.23	4750	1.13	1.02	1.03
5000	13.63	13.95	13.94	13.88	13.92	13.63	0.36	31.87	30.82	33.05	31.55	9.99	5000	1.19	1.11	1.07
5500	13.56	14.00	13.91	13.96	13.82	13.64	0.49	23.17	33.57	32.29	34.35	12.97	5500	1.16	1.08	1.04
6000	13.71	14.15	14.02	14.12	13.98	13.81	0.65	29.77	32.26	36.50	30.51	12.67	6000	1.03	1.18	1.12
6500	14.14	14.05	14.17	14.16	14.21	14.15	0.25	27.51	29.90	27.37	27.77	16.24	6500	1.12	1.10	1.11

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

16 Way-0° Power Splitter/Combiner ZN16PD-0563-S+

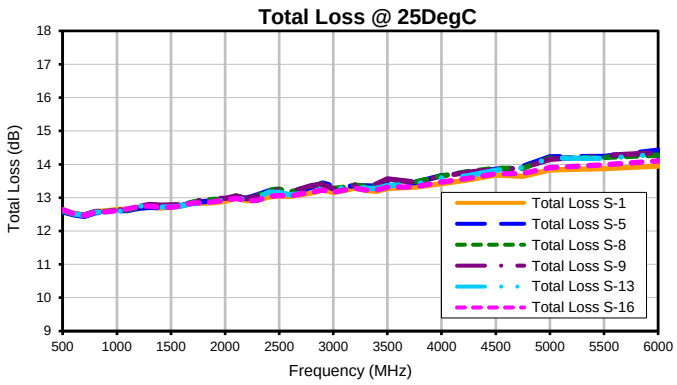
Typical Performance Data

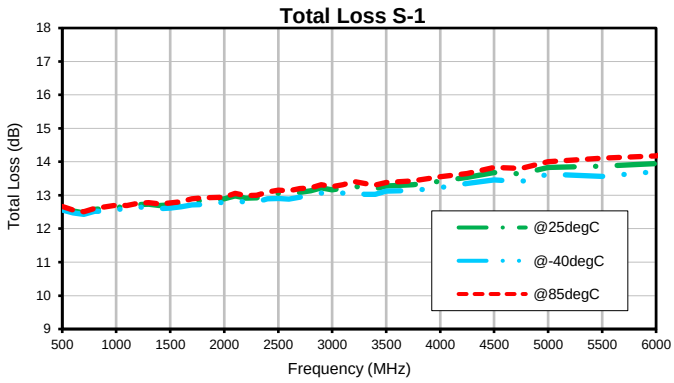
Data tested at 100DegC

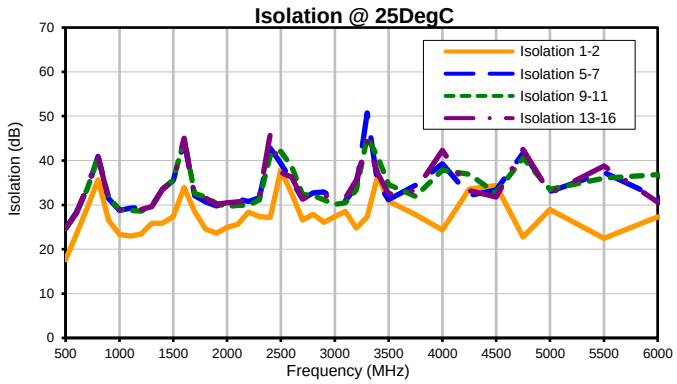
FREQ. (MHz)	TOTAL LOSS[1] (dB)						AMP. UNBAL. (dB)	ISOLATION (dB)				PHASE UNBAL. (deg.)	FREQ. (MHz)	VSWR (:1)		
	S-1	S-5	S-8	S-9	S-13	S-16		1-2	5-7	9-11	13-16			S	1	16
500	12.67	12.61	12.63	12.62	12.66	12.64	0.09	17.51	24.57	24.50	24.63	1.10	500	1.59	1.05	1.04
600	12.56	12.52	12.53	12.54	12.54	12.54	0.07	23.10	28.01	27.79	27.74	1.32	600	1.34	1.06	1.05
700	12.51	12.47	12.50	12.51	12.49	12.50	0.06	28.72	33.49	33.40	34.05	1.53	700	1.06	1.07	1.08
800	12.60	12.58	12.61	12.61	12.59	12.60	0.06	35.04	40.80	40.56	41.21	1.84	800	1.26	1.12	1.13
900	12.65	12.62	12.64	12.63	12.62	12.64	0.06	26.64	31.38	31.68	31.13	2.19	900	1.26	1.10	1.11
1000	12.70	12.67	12.68	12.67	12.62	12.66	0.10	23.24	28.67	28.96	28.95	2.21	1000	1.23	1.04	1.06
1100	12.70	12.67	12.68	12.72	12.66	12.70	0.09	22.84	29.16	28.65	28.67	2.16	1100	1.19	1.02	1.02
1200	12.76	12.72	12.75	12.76	12.77	12.76	0.08	23.25	29.36	28.48	28.76	2.42	1200	1.26	1.01	1.02
1300	12.78	12.76	12.81	12.82	12.83	12.79	0.08	25.50	29.63	29.36	29.43	2.51	1300	1.22	1.03	1.04
1400	12.75	12.75	12.81	12.81	12.77	12.76	0.09	25.65	32.95	33.07	32.88	2.73	1400	1.11	1.02	1.03
1500	12.77	12.79	12.83	12.83	12.77	12.77	0.11	26.98	35.13	35.19	35.14	2.84	1500	1.07	1.03	1.04
1600	12.81	12.83	12.84	12.84	12.81	12.82	0.09	32.09	46.69	47.18	48.86	3.04	1600	1.02	1.08	1.09
1700	12.90	12.92	12.94	12.94	12.89	12.91	0.10	29.55	32.29	32.76	32.06	3.43	1700	1.25	1.10	1.10
1800	12.92	12.97	13.02	13.01	12.91	12.91	0.15	24.60	30.55	31.61	31.24	3.51	1800	1.24	1.07	1.06
1900	12.93	12.98	13.03	13.05	12.96	12.95	0.15	23.41	29.76	30.41	30.19	3.15	1900	1.21	1.03	1.02
2000	12.95	12.95	12.99	13.02	12.99	12.98	0.10	24.68	30.20	29.47	30.11	3.37	2000	1.14	1.01	1.02
2100	13.06	13.06	13.13	13.10	13.07	13.06	0.12	25.24	31.28	29.84	30.65	3.61	2100	1.30	1.02	1.04
2200	12.99	13.05	13.05	13.04	13.01	12.99	0.12	27.95	30.61	29.75	30.64	4.16	2200	1.04	1.04	1.06
2300	13.00	13.16	13.13	13.11	13.05	13.00	0.21	27.56	31.15	30.65	31.44	4.28	2300	1.09	1.03	1.04
2400	13.09	13.28	13.31	13.31	13.23	13.12	0.23	26.37	39.89	38.69	41.20	4.50	2400	1.14	1.05	1.07
2500	13.15	13.30	13.35	13.33	13.24	13.16	0.23	36.27	40.86	43.95	38.56	4.21	2500	1.14	1.09	1.11
2600	13.13	13.23	13.27	13.26	13.17	13.14	0.19	33.83	35.61	38.82	36.42	4.21	2600	1.08	1.08	1.10
2700	13.20	13.31	13.35	13.36	13.22	13.22	0.21	26.78	31.60	32.72	31.76	4.34	2700	1.18	1.05	1.06
2800	13.22	13.36	13.41	13.43	13.25	13.25	0.24	27.49	32.05	31.74	31.65	4.52	2800	1.08	1.02	1.02
2900	13.31	13.52	13.51	13.48	13.36	13.33	0.24	25.88	33.25	31.39	32.29	4.74	2900	1.28	1.00	1.02
3000	13.26	13.45	13.40	13.38	13.33	13.27	0.24	26.84	30.95	29.92	31.67	4.89	3000	1.08	1.03	1.04
3100	13.31	13.43	13.41	13.41	13.39	13.33	0.16	28.48	30.79	30.19	31.39	5.01	3100	1.19	1.03	1.04
3200	13.41	13.47	13.50	13.50	13.45	13.42	0.14	24.91	32.92	32.31	34.01	5.31	3200	1.30	1.03	1.05
3300	13.35	13.49	13.46	13.46	13.41	13.38	0.18	25.97	51.01	42.58	44.96	5.34	3300	1.24	1.09	1.11
3400	13.31	13.46	13.49	13.51	13.38	13.34	0.23	34.47	35.65	41.44	38.06	5.26	3400	1.08	1.10	1.13
3500	13.38	13.53	13.64	13.67	13.47	13.42	0.30	32.08	31.62	35.43	32.98	5.48	3500	1.01	1.07	1.10
3750	13.43	13.56	13.59	13.59	13.51	13.45	0.20	28.14	34.45	31.96	32.85	5.64	3750	1.04	1.06	1.07
4000	13.56	13.80	13.76	13.78	13.73	13.62	0.30	24.35	37.24	36.01	39.51	6.15	4000	1.16	1.02	1.03
4250	13.65	13.82	13.90	13.88	13.79	13.69	0.27	31.94	33.49	37.91	34.45	6.85	4250	1.10	1.09	1.10
4500	13.83	14.00	14.09	14.04	13.95	13.86	0.29	36.45	32.22	32.75	31.28	6.94	4500	1.11	1.13	1.09
4750	13.80	14.10	14.03	14.05	14.05	13.88	0.31	22.79	41.44	39.68	43.60	6.34	4750	1.11	1.08	1.05
5000	14.01	14.42	14.36	14.31	14.36	14.06	0.44	26.84	33.68	33.09	32.74	6.59	5000	1.15	1.10	1.05
5500	14.11	14.38	14.38	14.44	14.39	14.20	0.33	22.74	42.04	40.45	45.83	7.56	5500	1.20	1.18	1.15
6000	14.17	14.59	14.44	14.54	14.47	14.33	0.53	25.94	30.98	35.61	30.55	7.84	6000	1.10	1.12	1.10
6500	14.62	14.51	14.75	14.73	14.70	14.61	0.34	25.45	31.96	28.60	29.23	7.19	6500	1.09	1.14	1.13

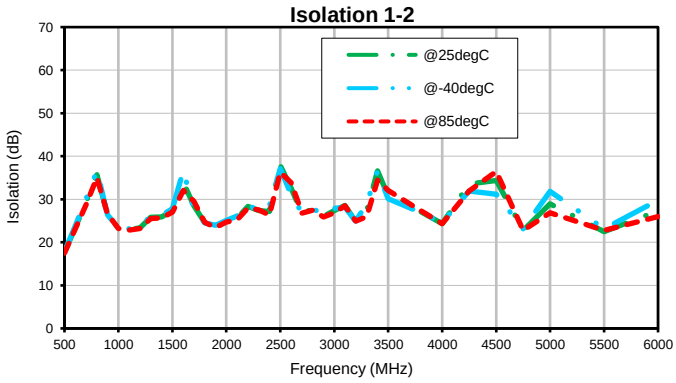
[1]Total Loss = Insertion Loss + 12dB Splitter Loss

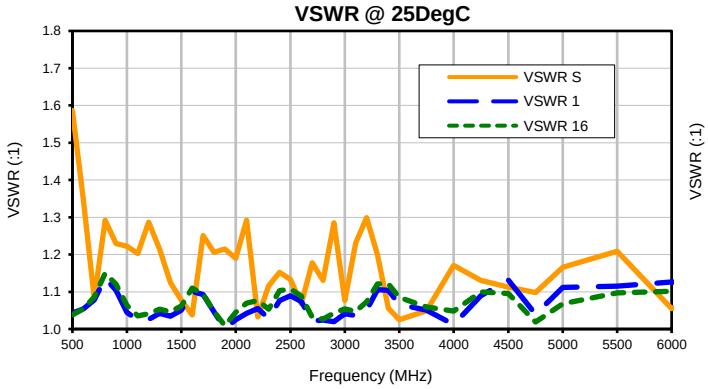
Typical Performance Curves

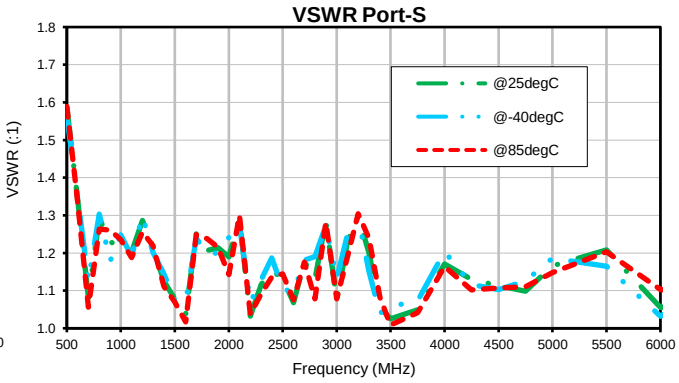


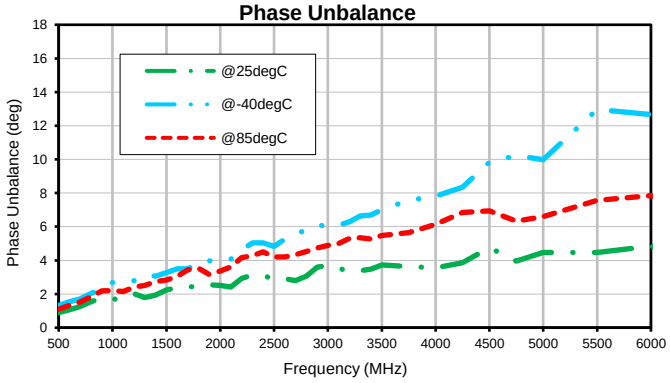


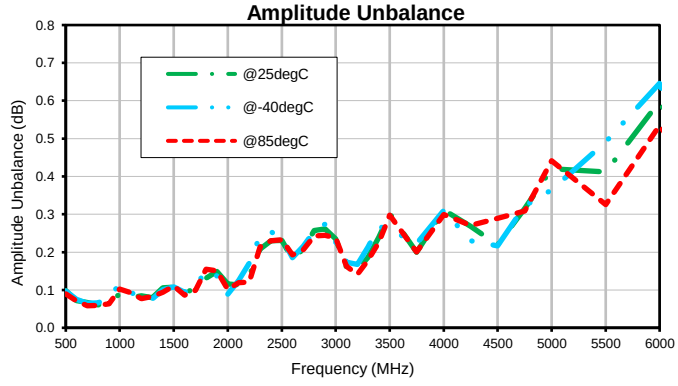








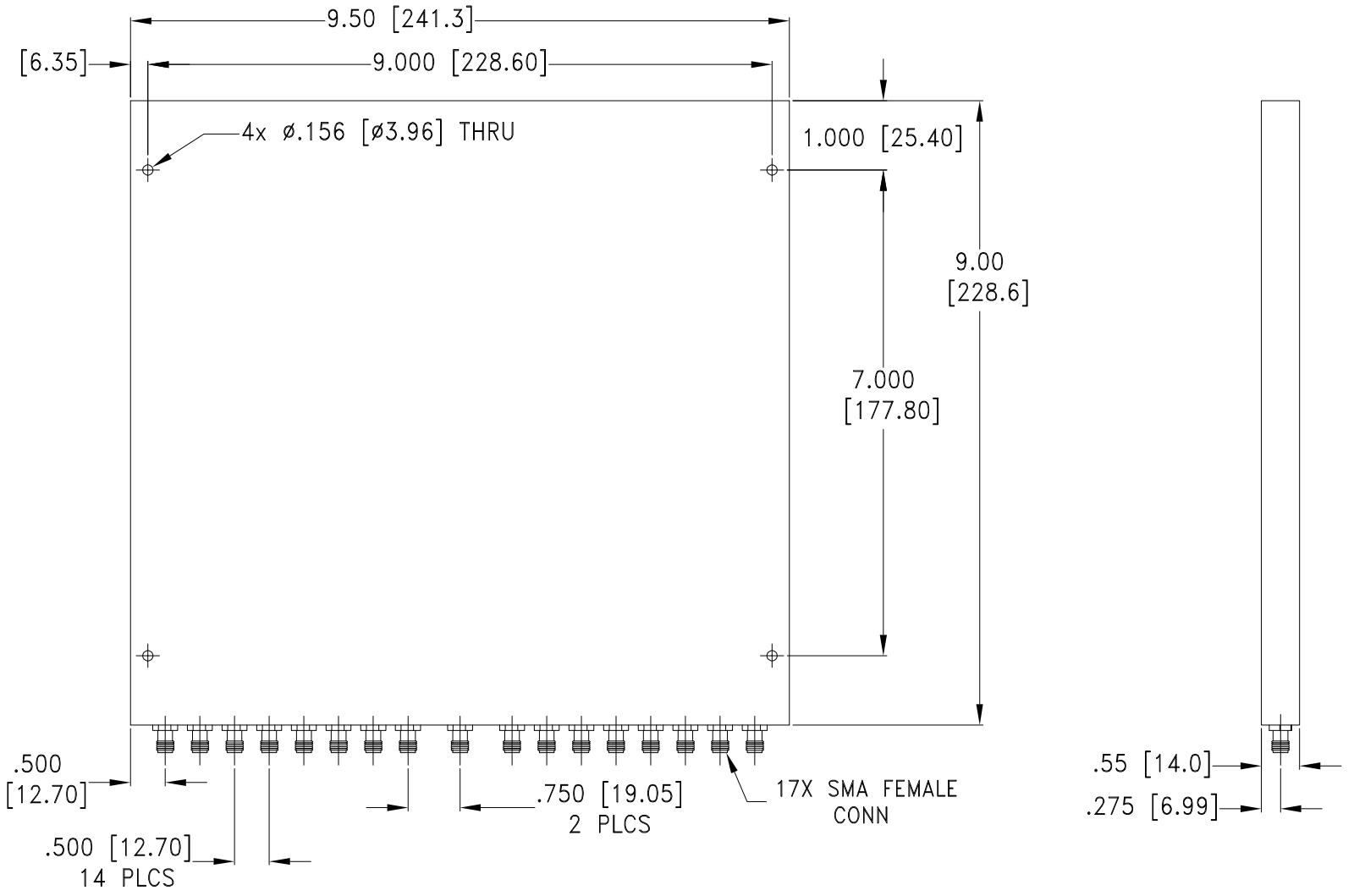




Case Style UU

Outline Dimensions

UU3178



Weight: 1542 grams;

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

Notes:

1. Case Material: Aluminum Alloy 6061 T6
2. Case Finish:
   For RoHS Case Styles: Clear chemical conversion coating, non-chrome or trivalent chrome based

Mini-Circuits

Environmental Specifications **ENV102**

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