

GPS 1:8 Active Splitter, 1U Rack Mount Enclosure

WMU-105

Pre-Catalog Release:

Product is available for direct order; however, it is not yet a catalog item. Longer lead times may apply.

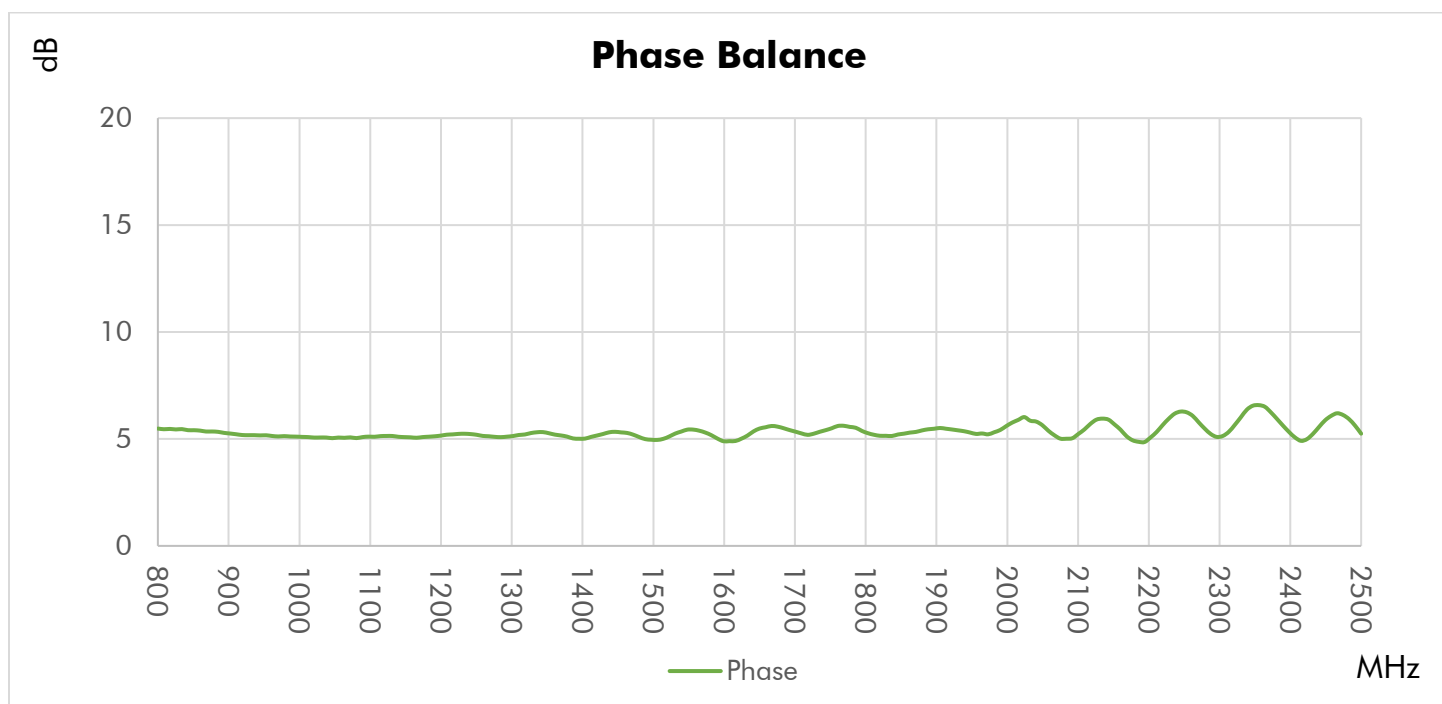
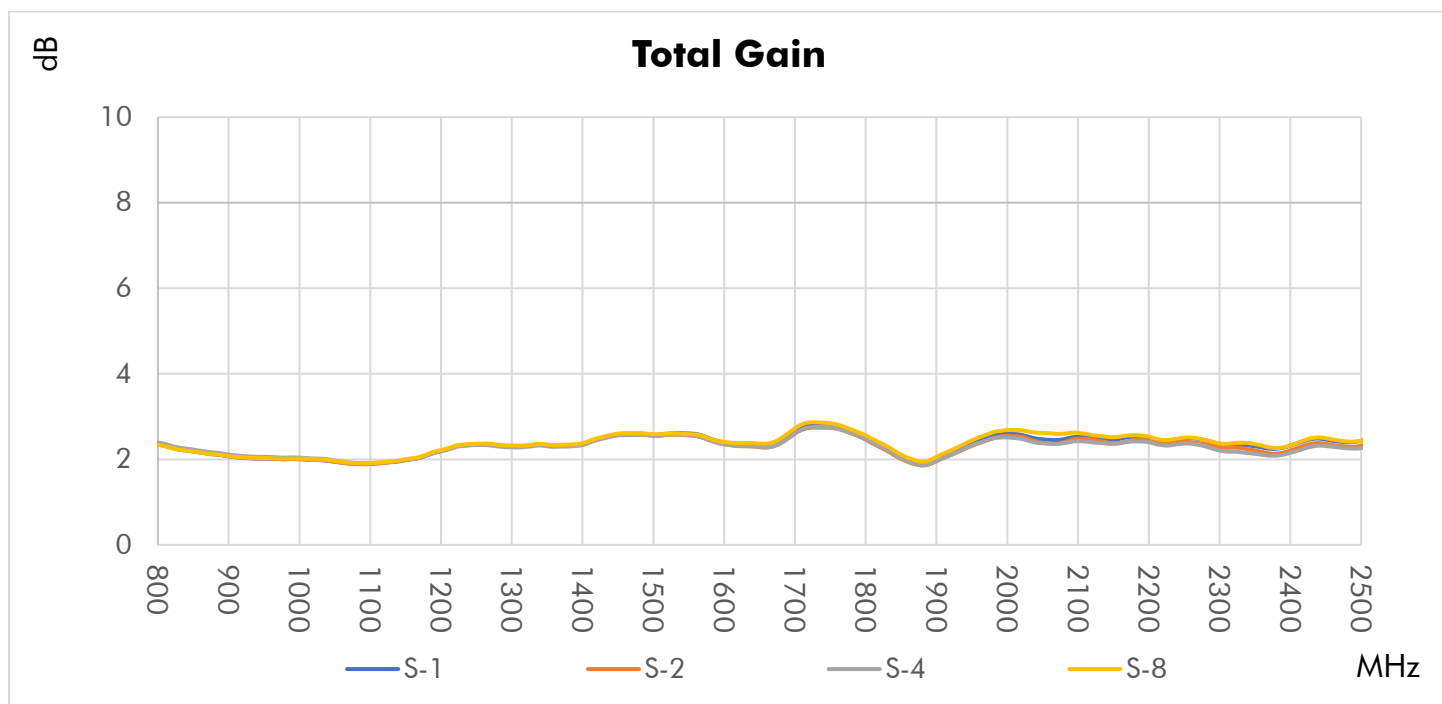
Parameter	Min.	Typ.	Max.	Unit
Frequency Range	950		2450	MHz
Impedance		50		Ω
Gain	0	3		dB
Gain Flatness		± 0.5	± 2.0	dB
Return Loss (Port S)	12	20		dB
Return Loss (Port 1-4)	15	22		dB
Isolation	22	30		dB
Amplitude Unbalance ($\pm$) ¹		0.4	1.0	dB
Phase Unbalance ($\pm$) ¹		4	8	Degree

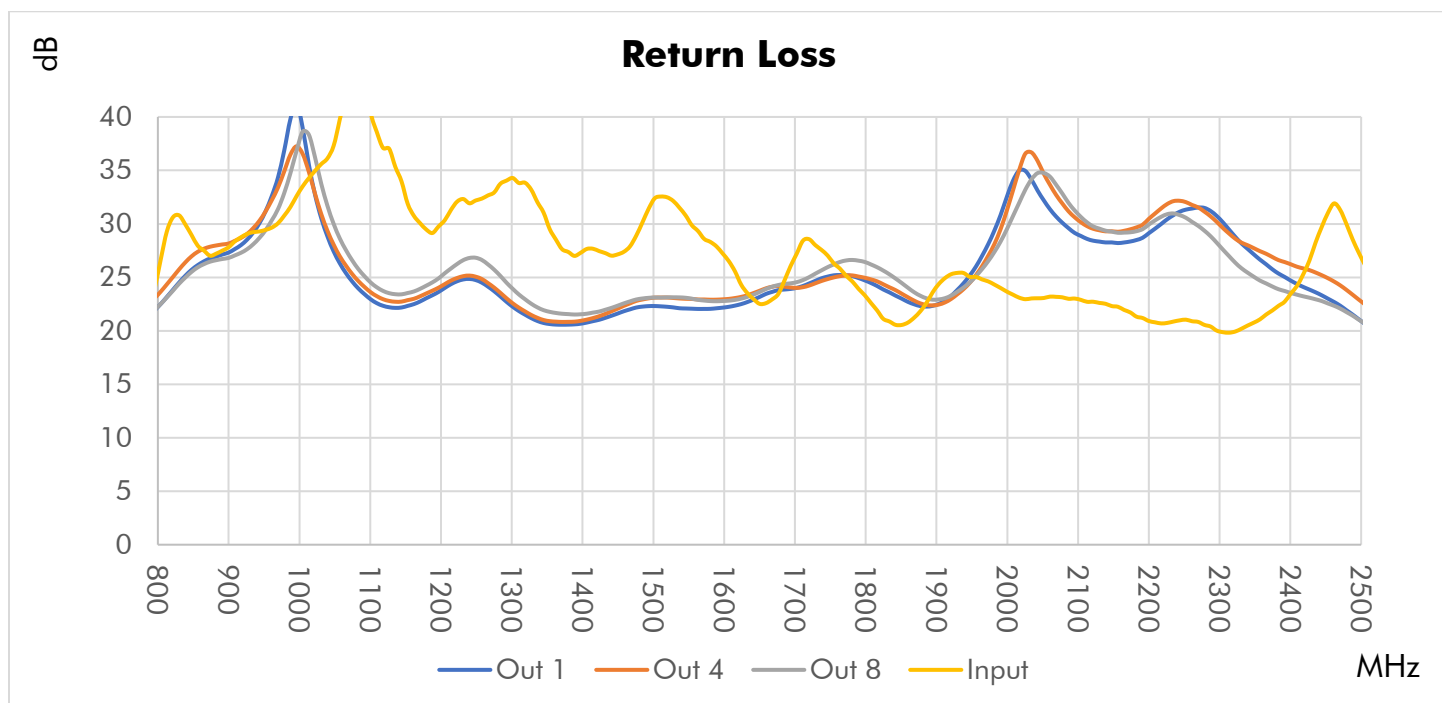
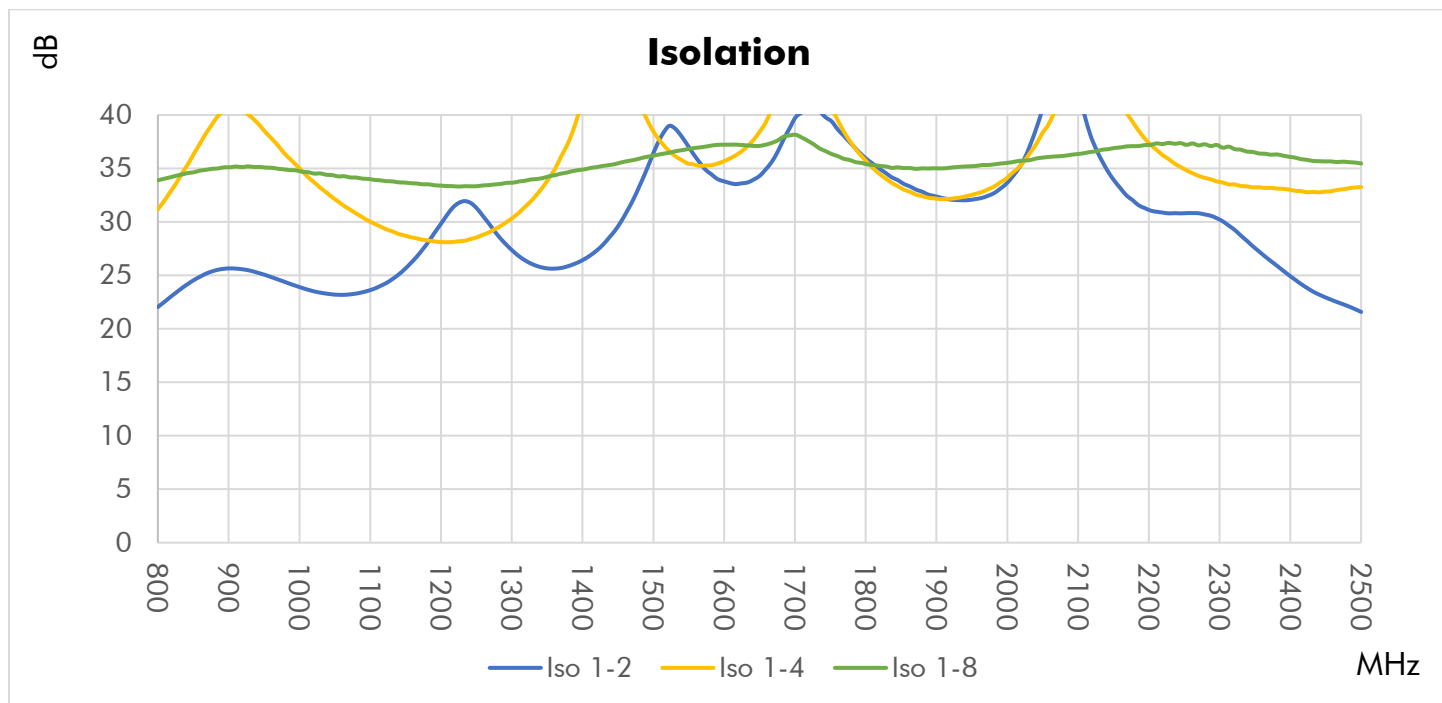
Specifications	Value
Power Supply	100-240VAC; 50/60 Hz
Power Connector	IEC C14 Inlet
Fuse	2A, 250VAC
Power Consumption	50W max.
Power Supply to Antenna Provided on Center Contact	+5 VDC fixed; 250mA max draw (do not exceed)
DC Blocking	All outputs; +5.2 VDC max (do not exceed).
Internal 200 Ω resistor provides current drain to simulate antenna.	All outputs; 25mA max draw at +5VDC.
Input Power (No Damage)	-20 dBm, max.

Connector Interface	N/SMA Female	RoHS Status ⁴	RoHS3 Compliant
Operating Temperature ³	-0 to +50 °C	REACH Status ⁴	REACH Unaffected
Storage Temperature	-20 to +60 °C	Enclosure Material	Aluminum/Steel
Nominal Weight	3.4 kg (7.5 lb.)	Connectors Material	Stainless St. (N), Brass/Gold (SMA)
Operating Humidity	10-90% (non-condensing)	Contacts Material	Beryllium Copper, Gold Plated
Operating Environment	Indoor Use Only	Insulators Material	Virgin PTFE
HTSUS Code	8543.70.99	Finish	Black Paint
ECCN	EAR99	Country of Origin	USA

1. With reference to average.
2. All output ports should be terminated in a 50-ohm load with 1.2:1 max VSWR.
3. Electrical specifications are tested at +25 °C.
4. To the best of our knowledge at the time of publication.

Typical Performance at +25 °C

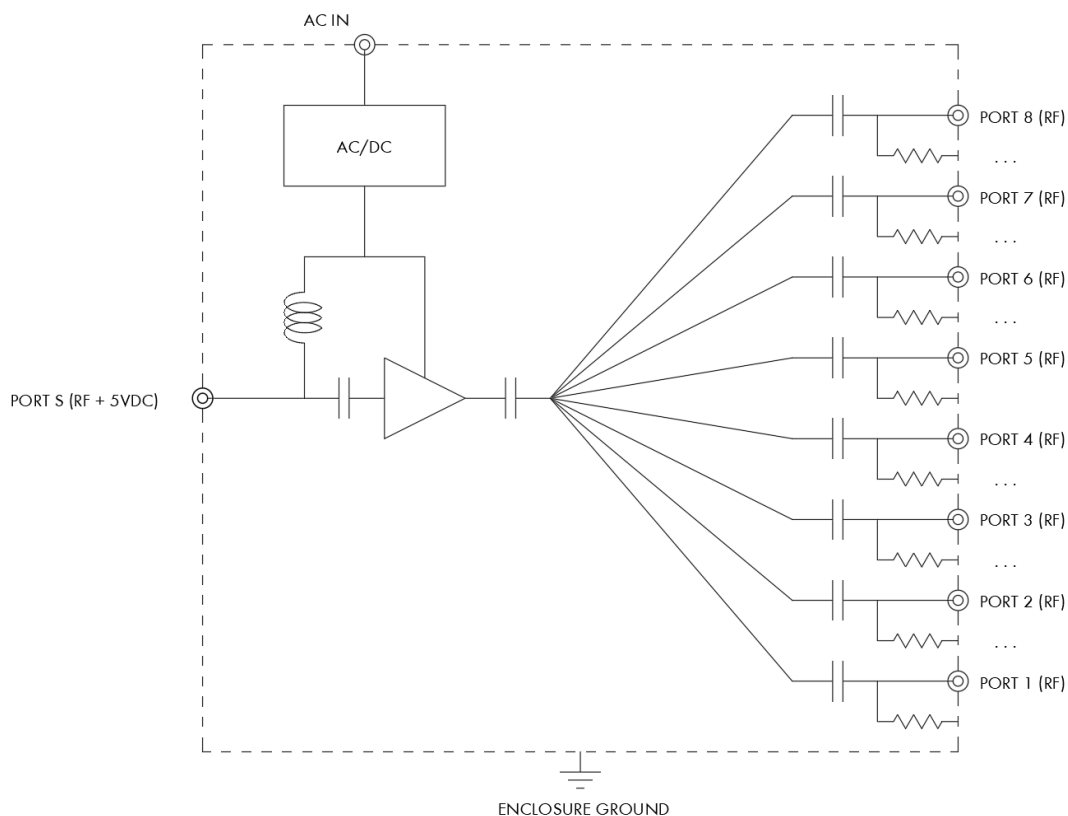




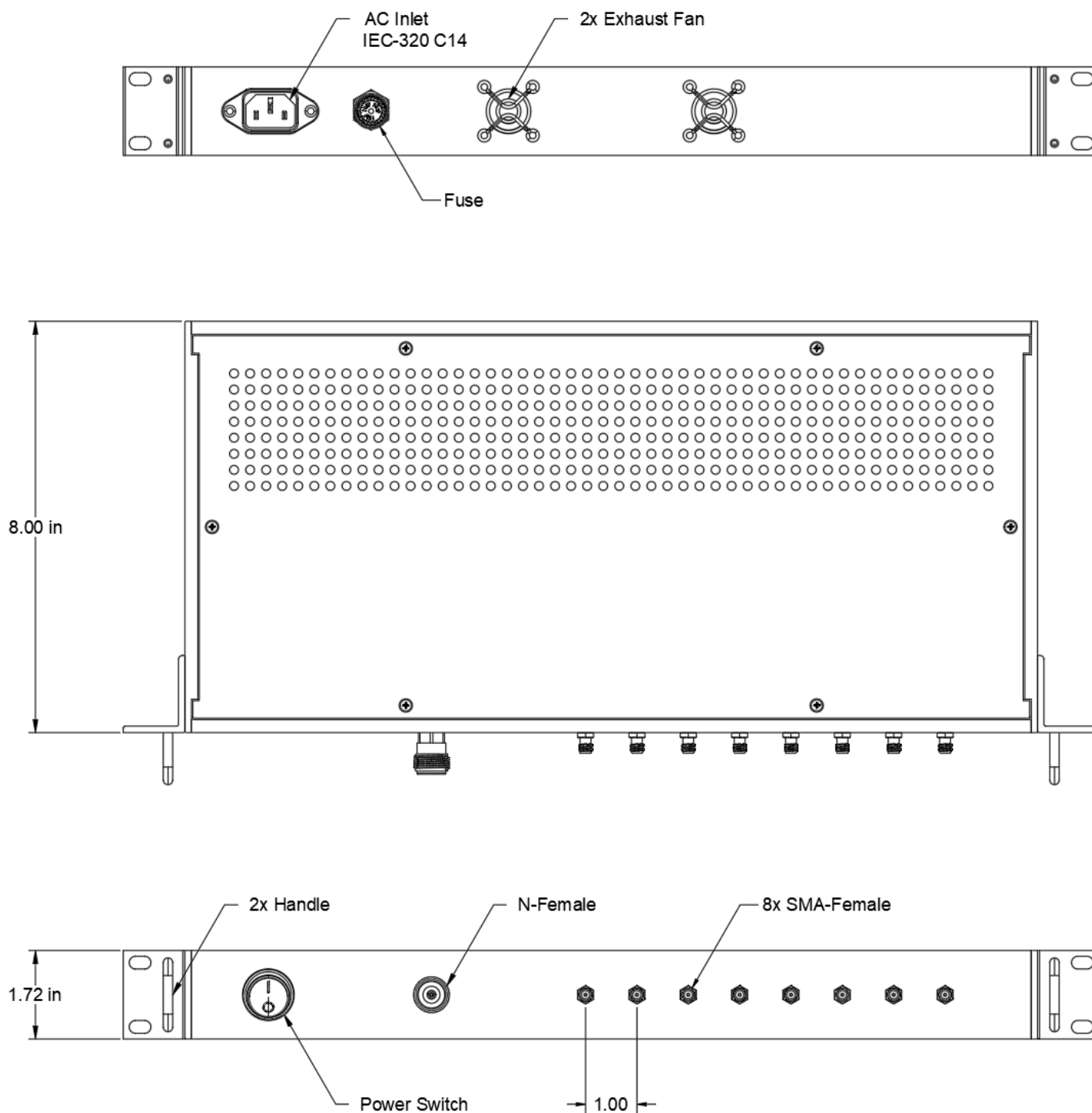
Typical Performance Data

Frequency (MHz)	Return Loss (dB)			Total Gain (dB)		Isolation (dB)		
	Port S	Port 1	Port 8	S-1	S-8	1-2	1-4	1-8
600	17.24	24.02	24.99	0.99	0.98	21.18	20.40	26.78
700	19.22	19.58	20.02	0.81	0.80	16.35	23.65	27.44
800	24.58	22.19	22.19	2.34	2.33	25.16	40.44	27.93
900	27.91	27.21	26.68	2.07	2.08	23.88	32.16	29.66
1000	32.73	41.03	37.85	2.01	2.03	21.88	26.57	28.22
1100	46.13	22.98	24.56	1.90	1.92	28.38	26.67	29.69
1200	31.29	23.70	24.99	2.21	2.23	30.71	28.71	29.67
1300	35.31	22.24	23.91	2.32	2.34	24.87	43.27	30.07
1400	26.89	20.59	21.44	2.37	2.39	36.63	32.28	31.03
1500	30.15	22.20	22.95	2.59	2.61	25.81	28.77	32.22
1600	26.16	22.06	22.63	2.40	2.41	30.43	34.94	35.20
1700	26.50	23.82	24.37	2.70	2.76	32.65	35.58	34.73
1800	22.66	24.53	26.20	2.53	2.59	28.16	32.41	33.72
1900	23.90	22.44	22.96	2.03	2.10	49.35	33.69	32.65
2000	23.70	33.17	30.13	2.61	2.73	27.76	32.14	32.68
2100	23.18	29.44	31.54	2.54	2.67	27.86	30.48	33.08
2200	21.15	29.30	30.23	2.54	2.60	44.72	32.54	34.06
2300	20.34	30.15	27.68	2.39	2.45	38.00	39.63	34.39
2400	23.92	25.05	23.81	2.33	2.38	33.08	38.99	35.64
2500	27.25	21.11	21.22	2.45	2.51	26.50	30.69	35.85
2600	21.30	17.78	18.61	2.22	2.31	27.04	29.96	43.09
2700	16.73	18.00	20.13	3.10	3.19	20.27	32.36	39.83
2800	15.47	22.56	24.46	3.57	3.62	18.43	30.91	38.85
2900	15.70	26.35	29.10	2.41	2.47	27.16	29.51	42.72
3000	14.18	22.73	24.14	0.38	0.44	37.83	31.86	35.95

Simplified Electrical Schematic



Outline Dimensions



Outline drawing: OL-U-1-1X8-NS

Dimensions are in inches, [mm] shown for convenience.

Tolerances on 2-pl decimals: ± 0.03 . 3-pl decimals: ± 0.015 .

The information contained in this document is accurate to the best of our knowledge and representative of the product described herein at the date of publication. It may be necessary to make modifications to the product and/or documentation of the product. Werbel Microwave LLC reserves the right to make such changes as required without notice. Unless otherwise stated, all specifications and dimensions are nominal. Werbel Microwave LLC does not make any representation or warranty regarding the suitability of the product described herein for any particular purpose or application, and Werbel Microwave LLC does not assume any liability arising out of the use of any part of documentation. This document gives only a description of the product(s) and shall not form part of any contract. Please contact a Werbel Microwave LLC Applications Engineer for the most current specification drawing.

Reliability testing was performed as an internal requalification of the product to substantiate the published specifications, which were previously arrived at by calculation and/or similarity to existing products. The results of these tests are provided as a courtesy and shall not form part of a contract or warranty. While reliability tests may depict the product being tested beyond the published specification ratings for the purpose of stress testing the product, this does not imply that the product should be operating above the rated limits for any length of time. Specifications related to reliability (e.g., performance over temperature, power handling, DC current, HI-POT) are "designed to meet" and are not individually tested in production of commercially available products. Please contact a Werbel Microwave LLC Applications Engineer if specific reliability testing is needed on a particular product.