

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

WMU-105

PRELIMINARY



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 5)	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

Operating Temperature³ -0 to +50 °C

Storage Temperature -20 to +60 °C

Nominal Weight 3.4 kg (7.5 lb.)

Operating Humidity 10-90% (non-condensing)

Operating Environment Indoor Use Only

HTSUS Code 8543.70.99

ECCN EAR99

RoHS Status⁴

REACH Status⁴

Enclosure Material

Connectors Material

Contacts Material

Insulators Material

Finish

Country of Origin

RoHS3 Compliant

REACH Unaffected

Aluminum/Steel

Stainless St. (N), Brass/Gold (SMA)

Beryllium Copper, Gold Plated

Virgin PTFE

Black Paint

USA

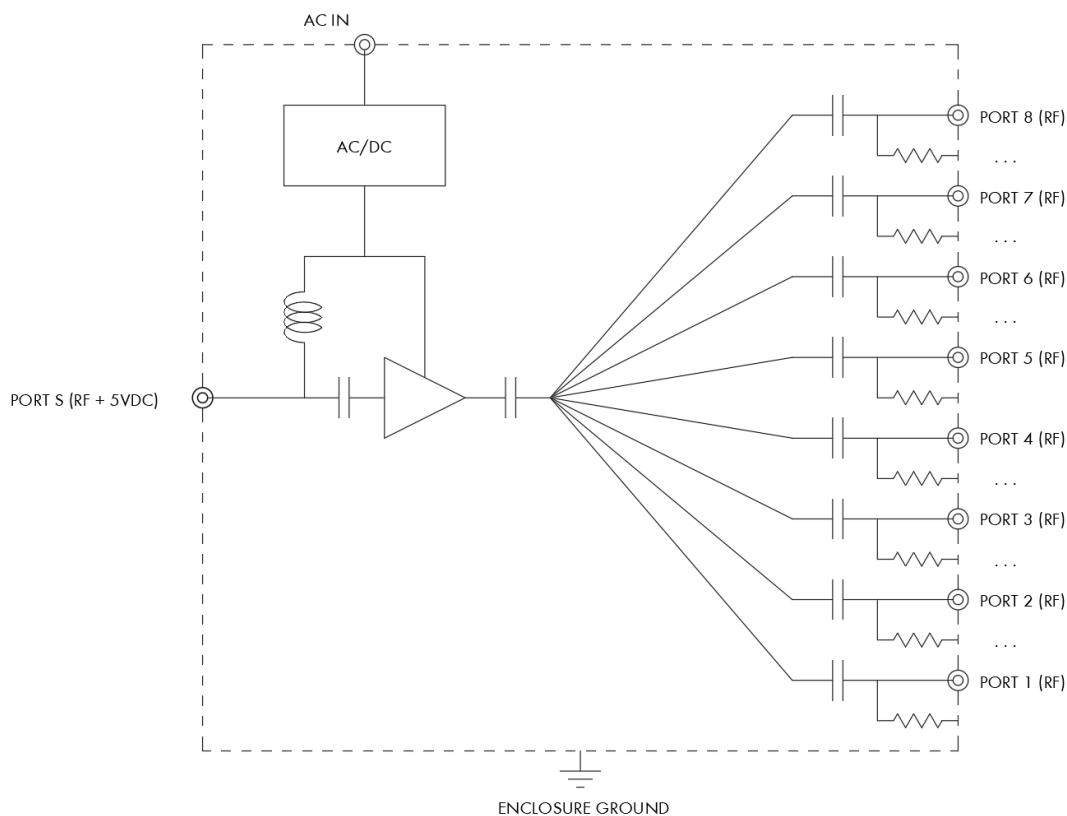
1. With reference to average.
2. All output ports should be terminated in a 50-ohm load with 1.2:1 max VSWR.
3. Electrical specifications are tested at +25 °C.
4. To the best of our knowledge at the time of publication.



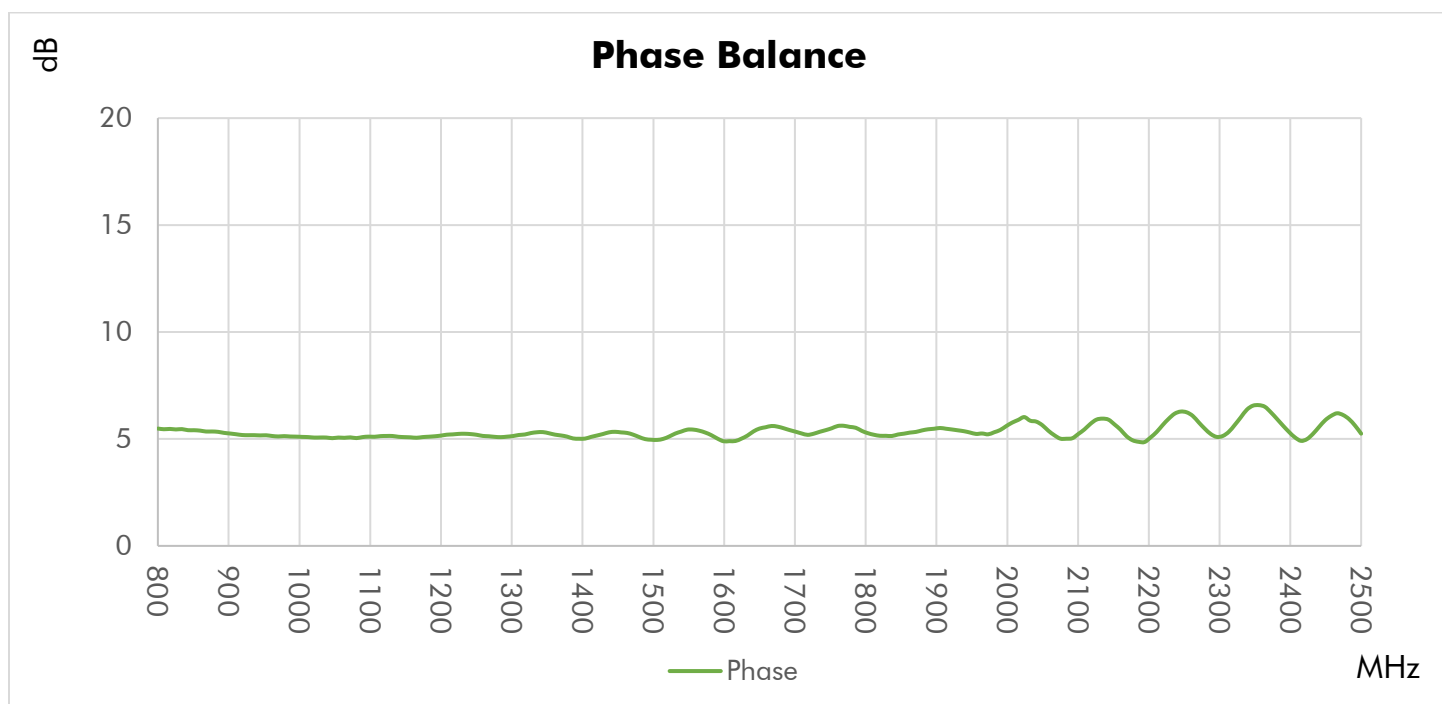
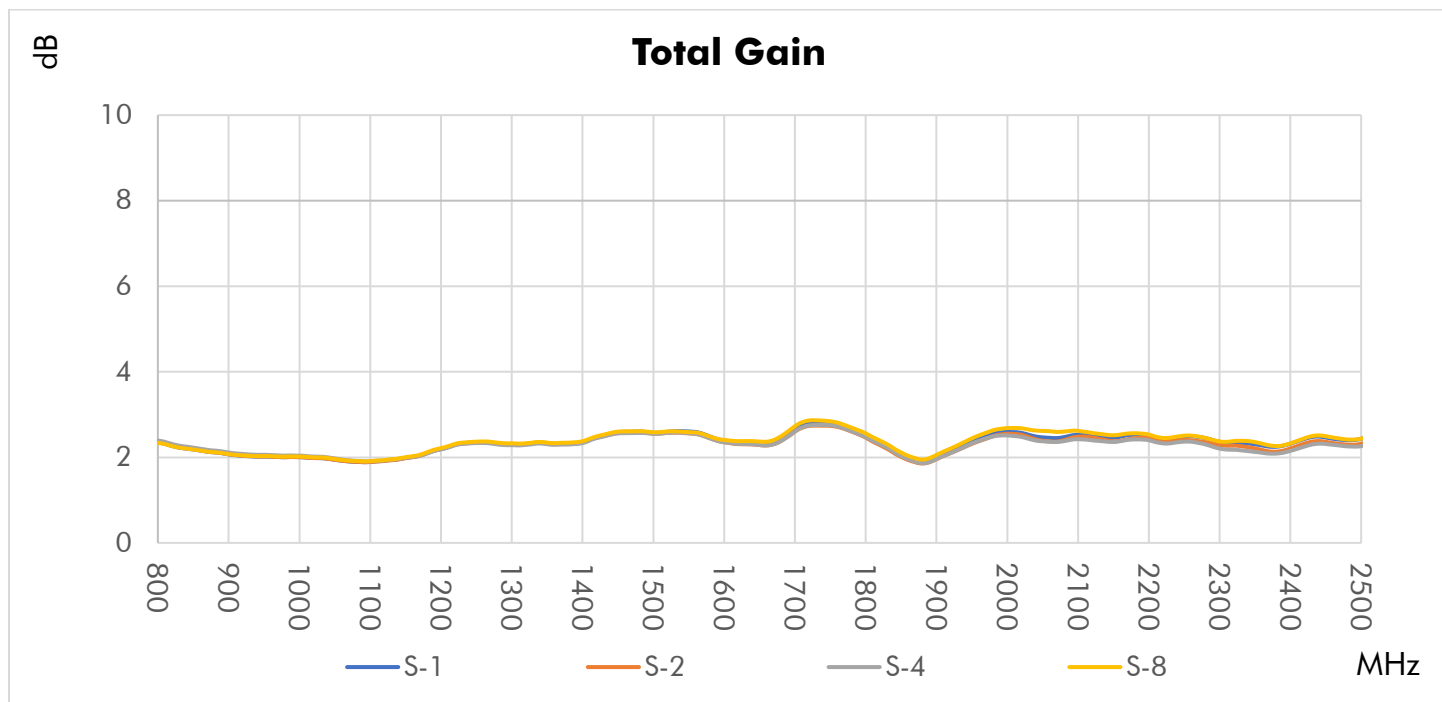
ATTENTION

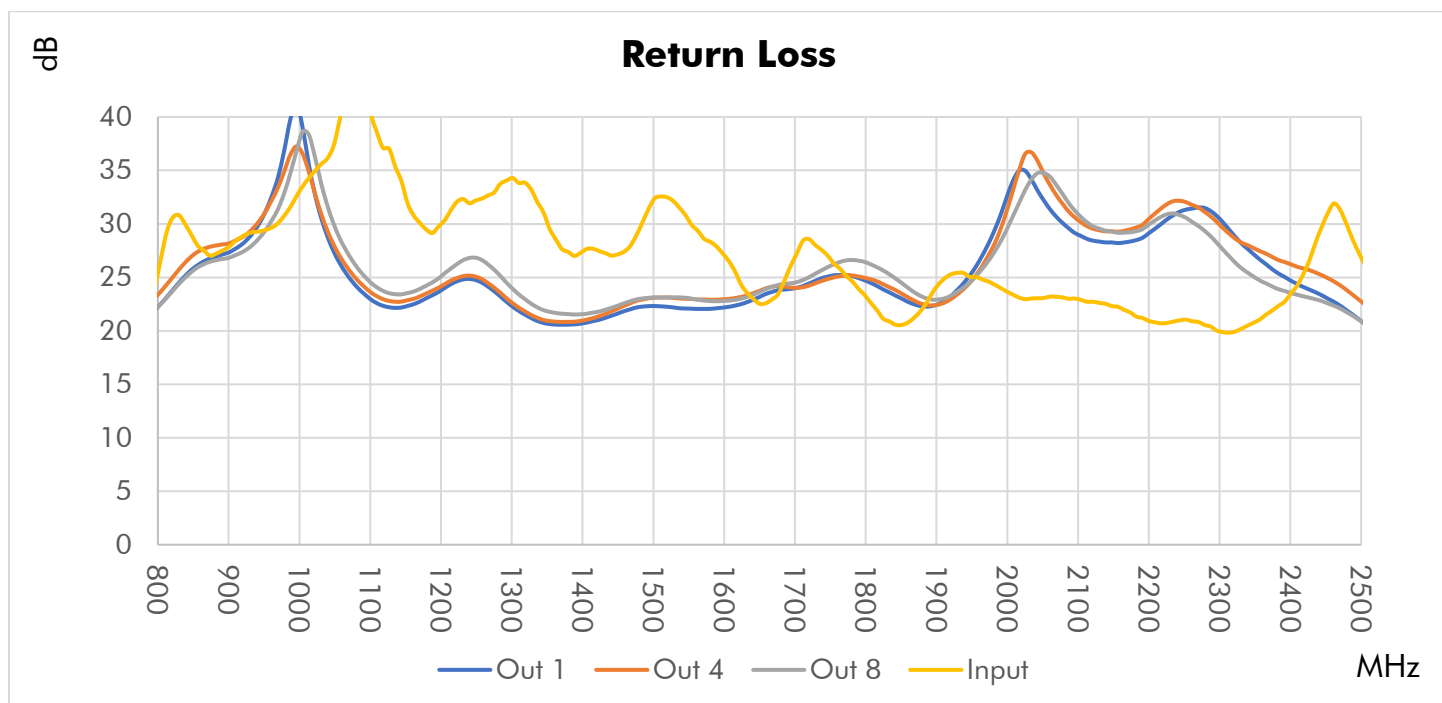
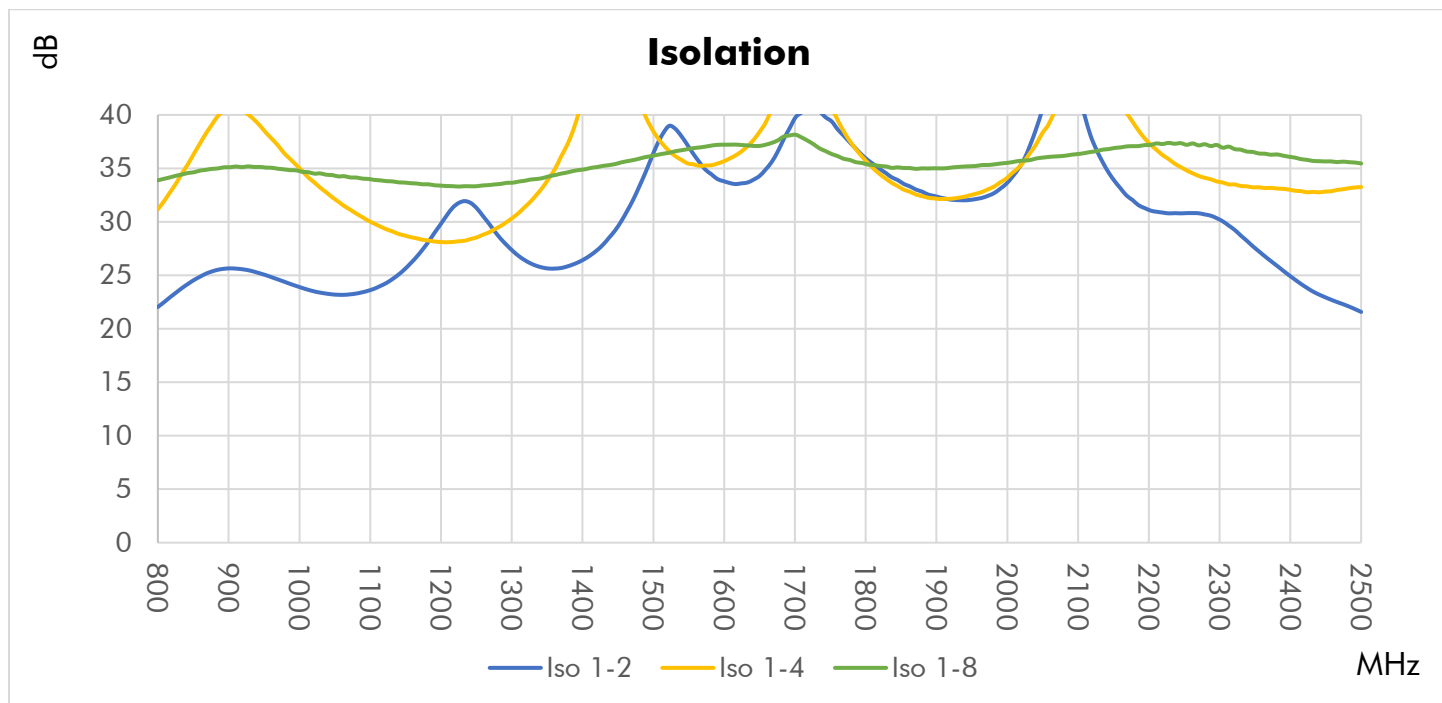
Observe precautions for handling electrostatic sensitive devices.

Simplified Electrical Schematic



Typical Performance at +25 °C

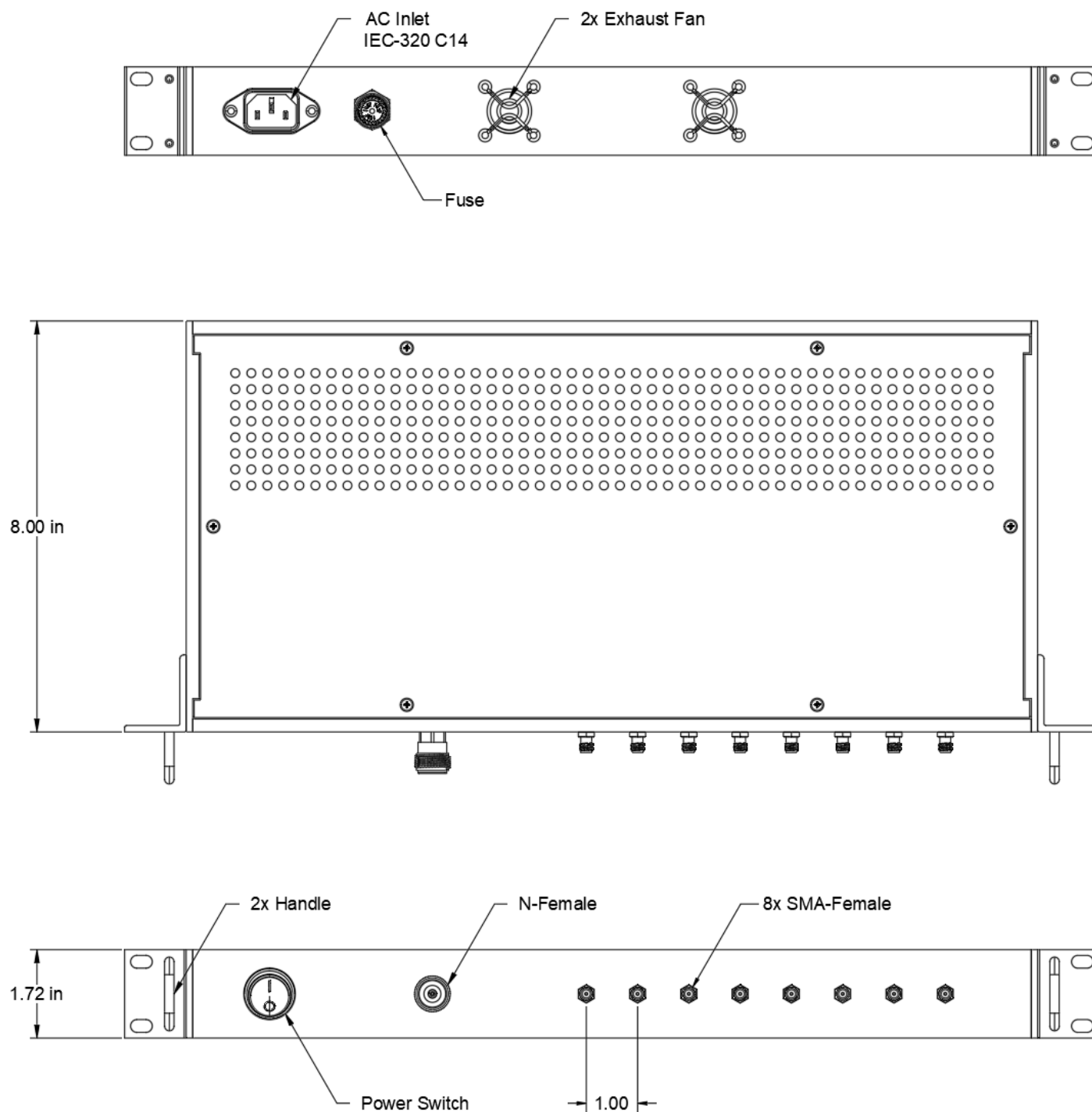




Typical Performance Data

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

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 .

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