

GPS 1:16 Active Splitter, 2U Rack Mount Enclosure

WMU-104



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	1.2	dB.
Phase Unbalance ($\pm$) ¹		5	12	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.



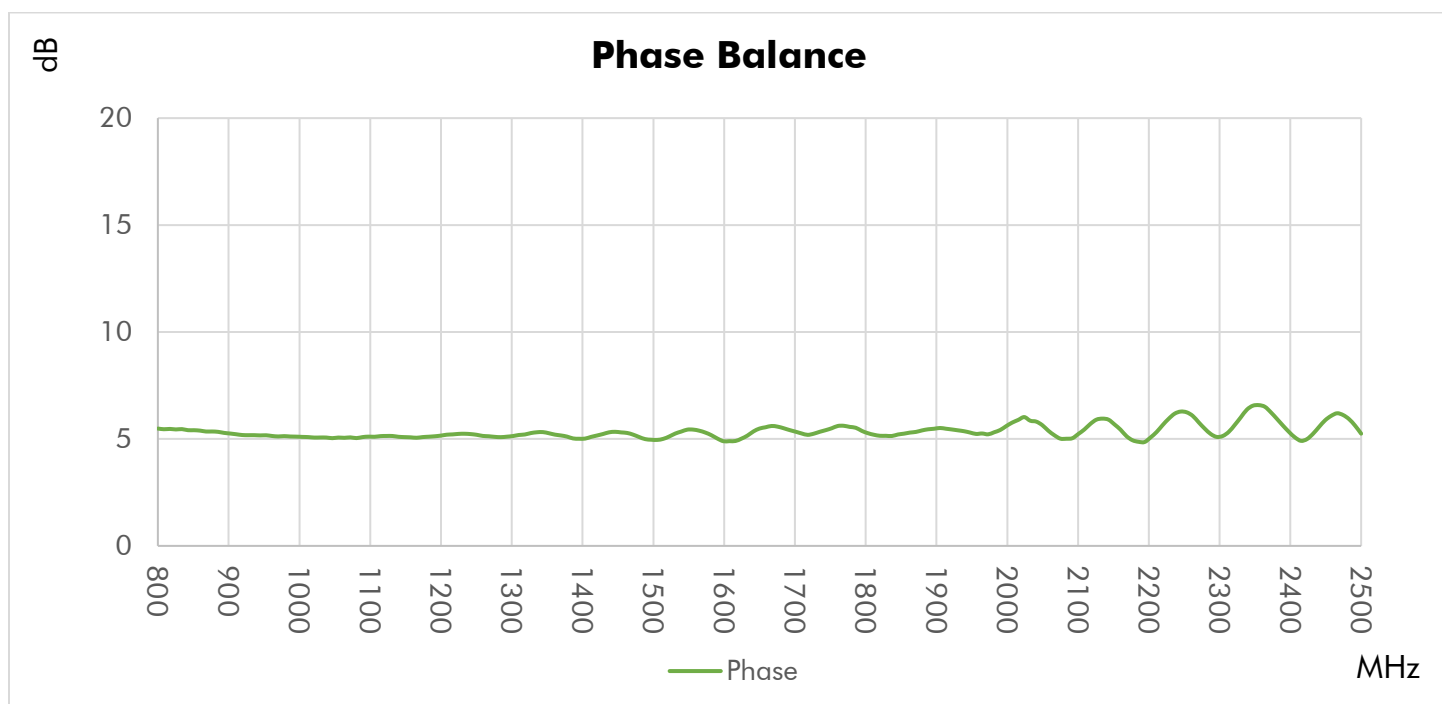
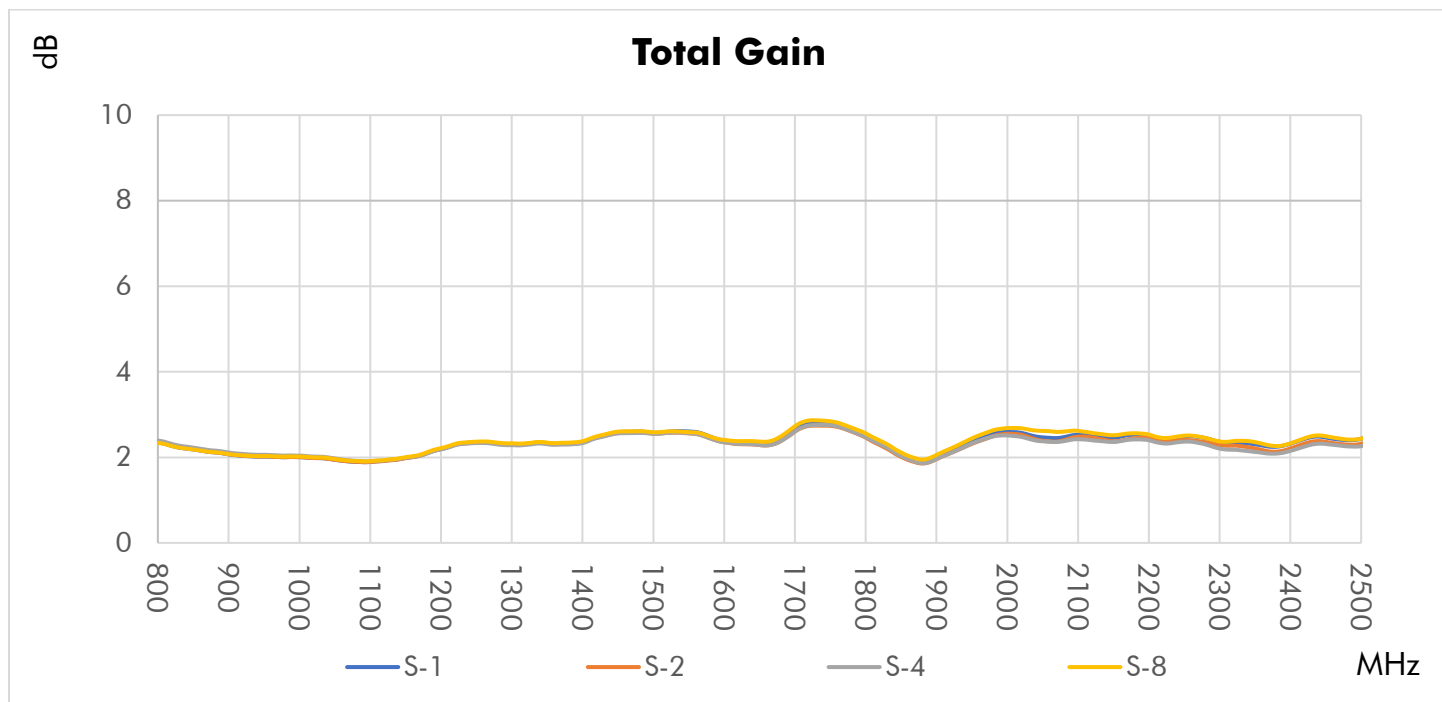
ATTENTION

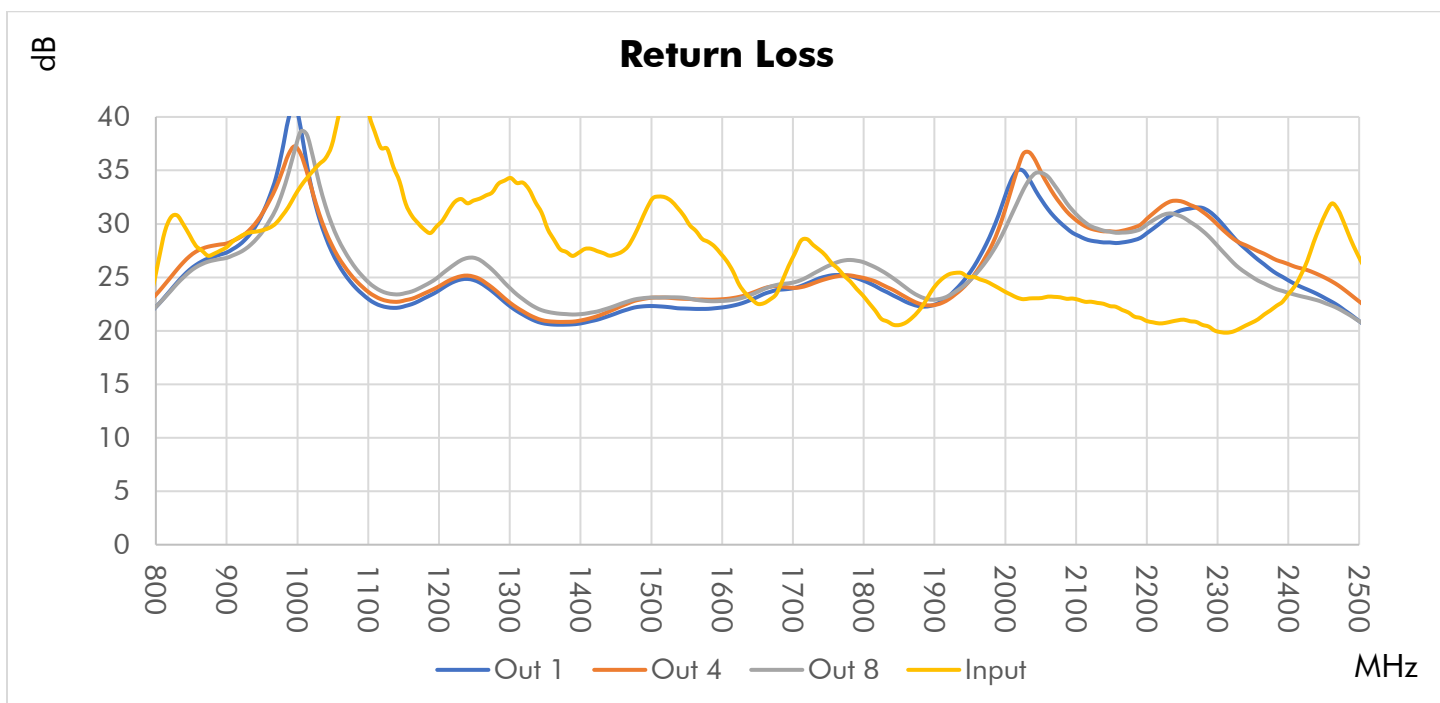
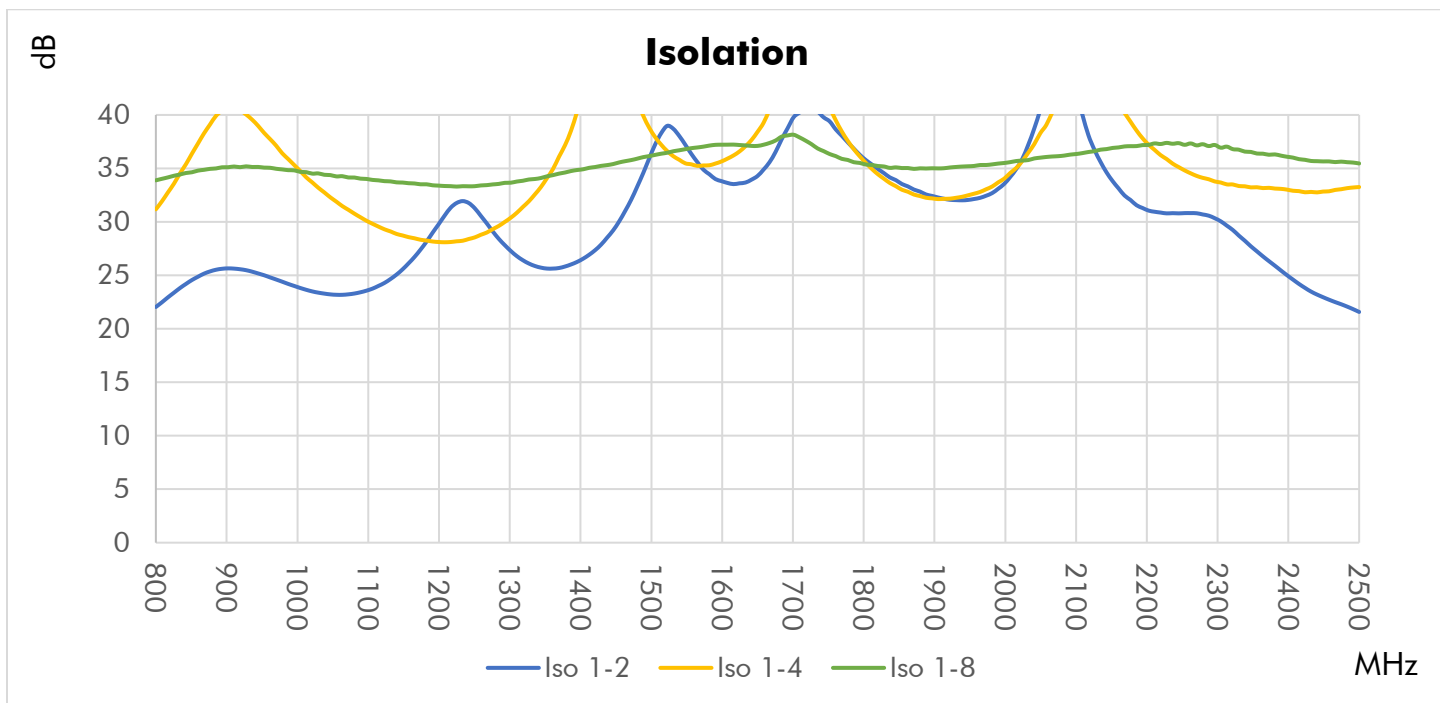
Observe precautions for handling electrostatic sensitive devices.

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

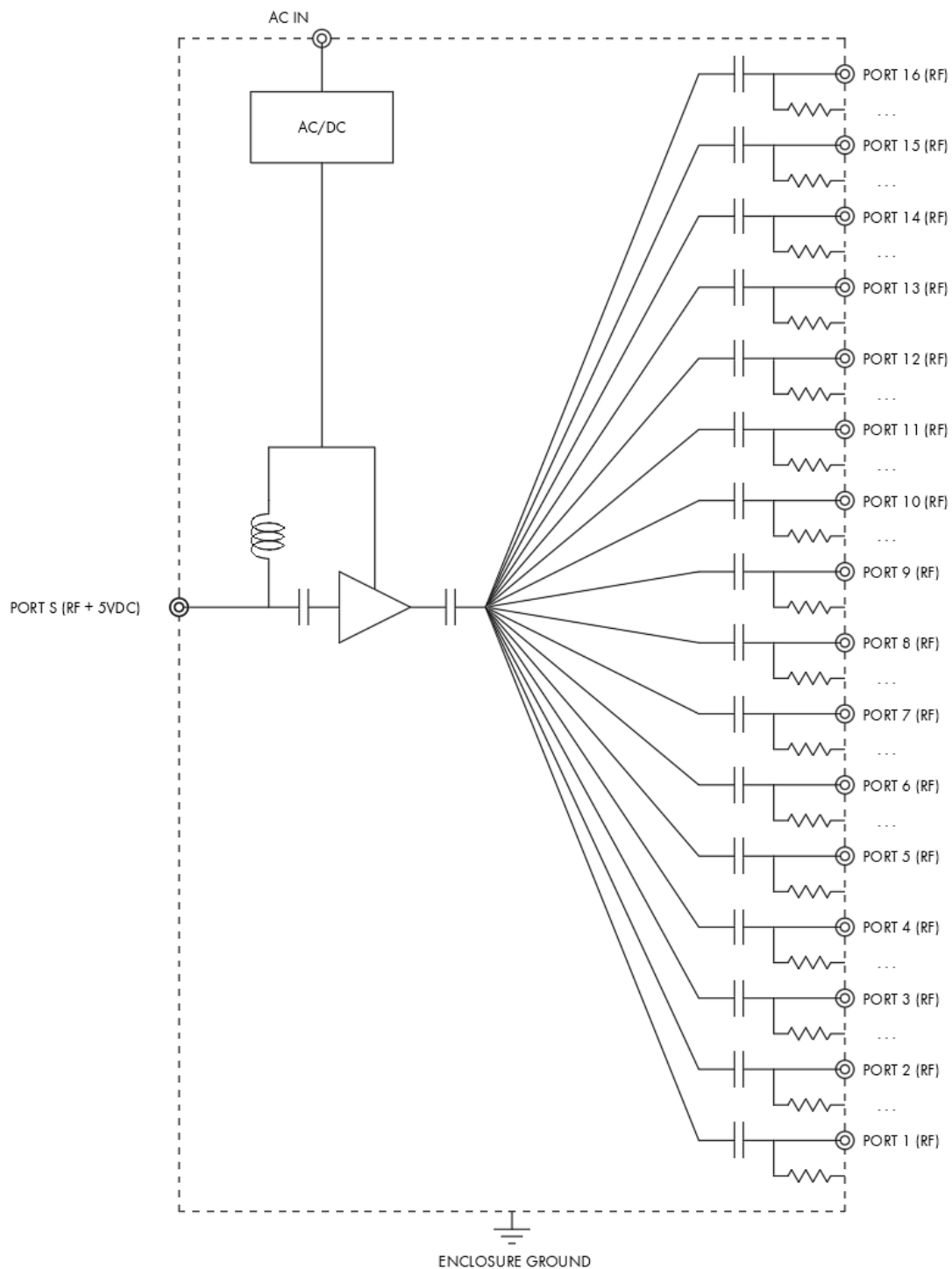




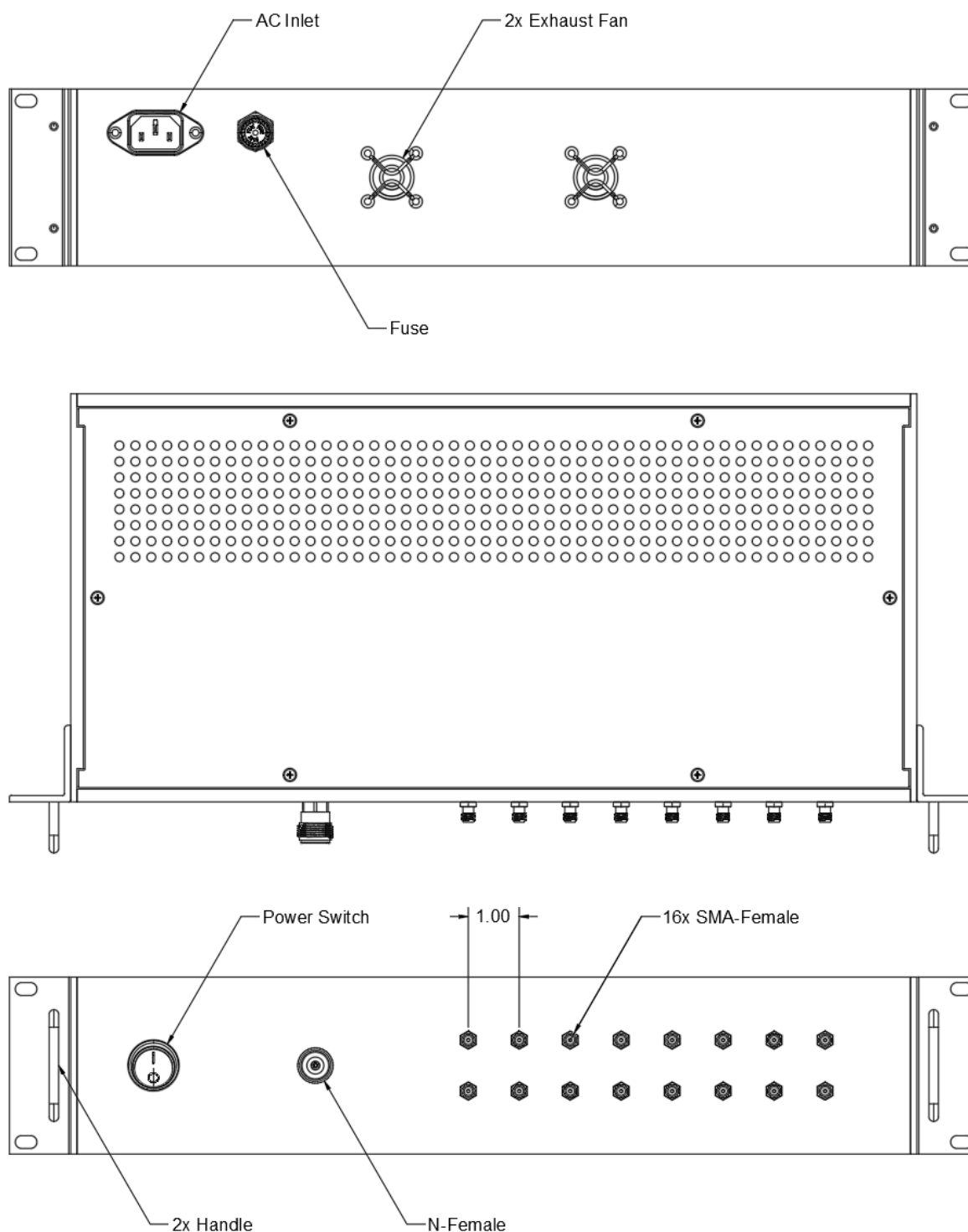
Typical Performance Data

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-1-1X16-NS

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

Tolerances on 2-pl decimals: $\pm .03$. 3-pl decimals: $\pm .015$.

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