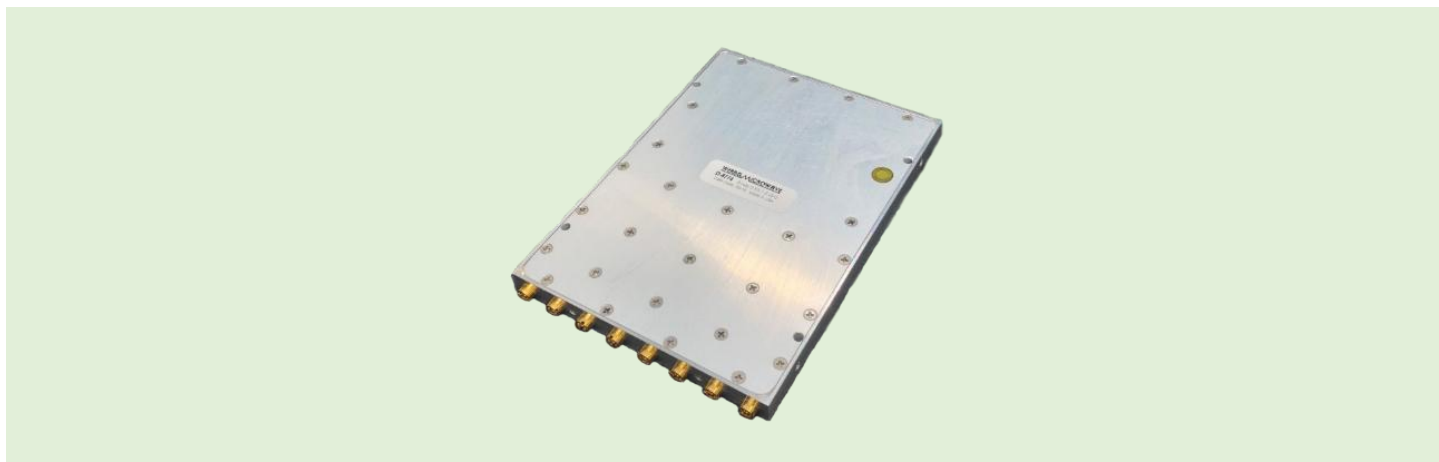


Power Divider, 0.55-7.4GHz, 8-way, SMP Male



8-way SMA Power Divider from 550 MHz to 7.4 GHz

WM8PD-0.55-7.4-SMP



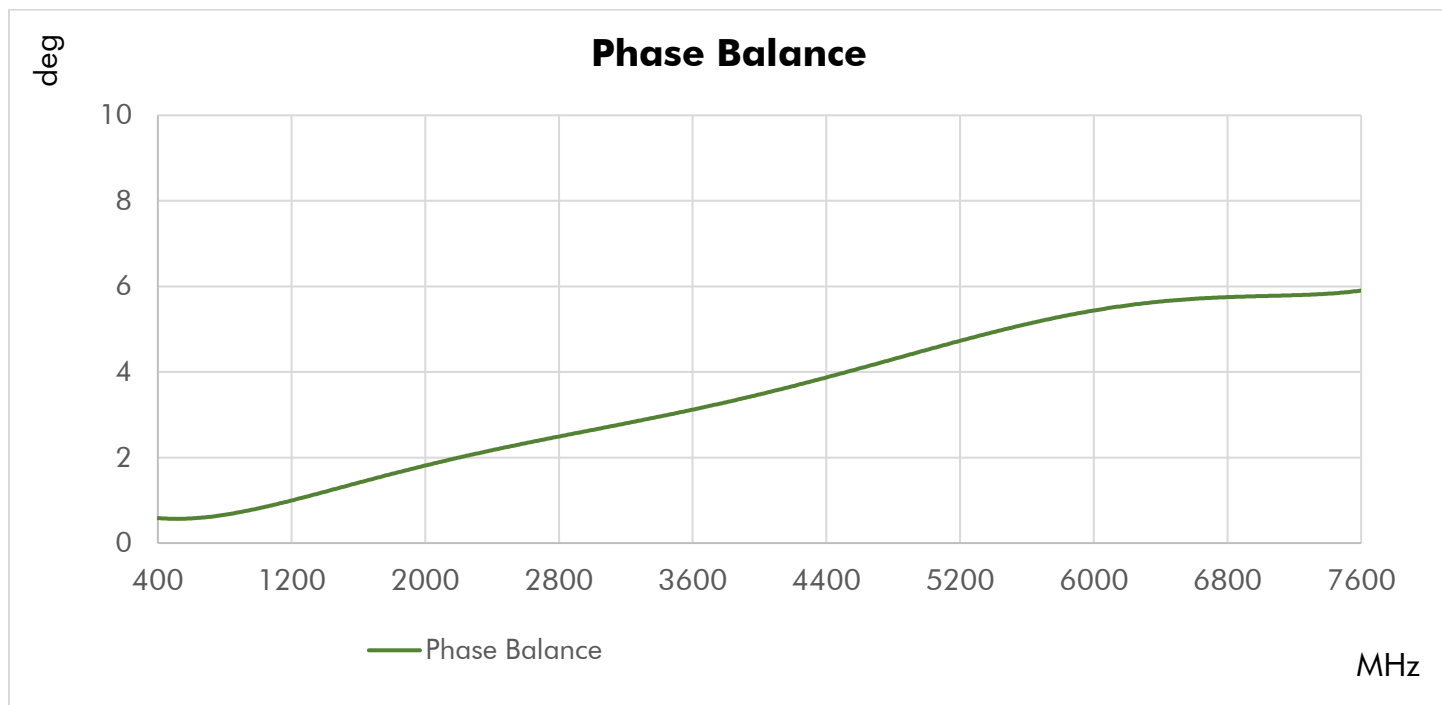
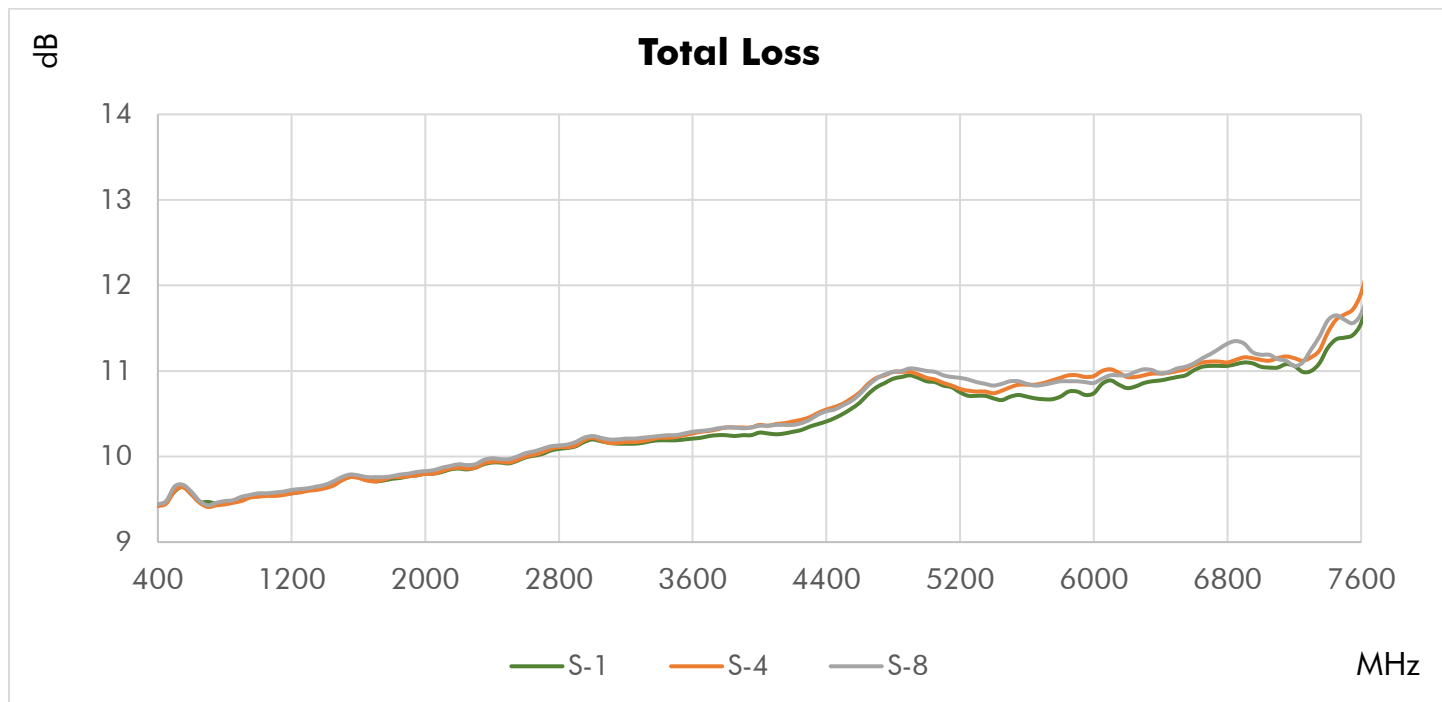
Parameter	Min.	Typ.	Max.	Unit
Frequency Range	600		7400	MHz
Impedance	50			Ω
Return Loss (Port S)	11	16		dB, min.
Return Loss (Port 1-8)	13	20		dB, min.
Insertion Loss above 9.03 dB		2.4	3.6	dB, max.
Isolation	17	20		dB, min.
Amplitude Unbalance ($\pm$) ¹		0.3	0.8	dB, max.
Phase Unbalance ($\pm$) ¹		4	8	Degree, max.
Input Power (CW) ²			30	W, max.
Max Power as Combiner (under mismatch conditions) ²	0.25			W/port, max.
DC Current	0.68A (85mA/port) max.			

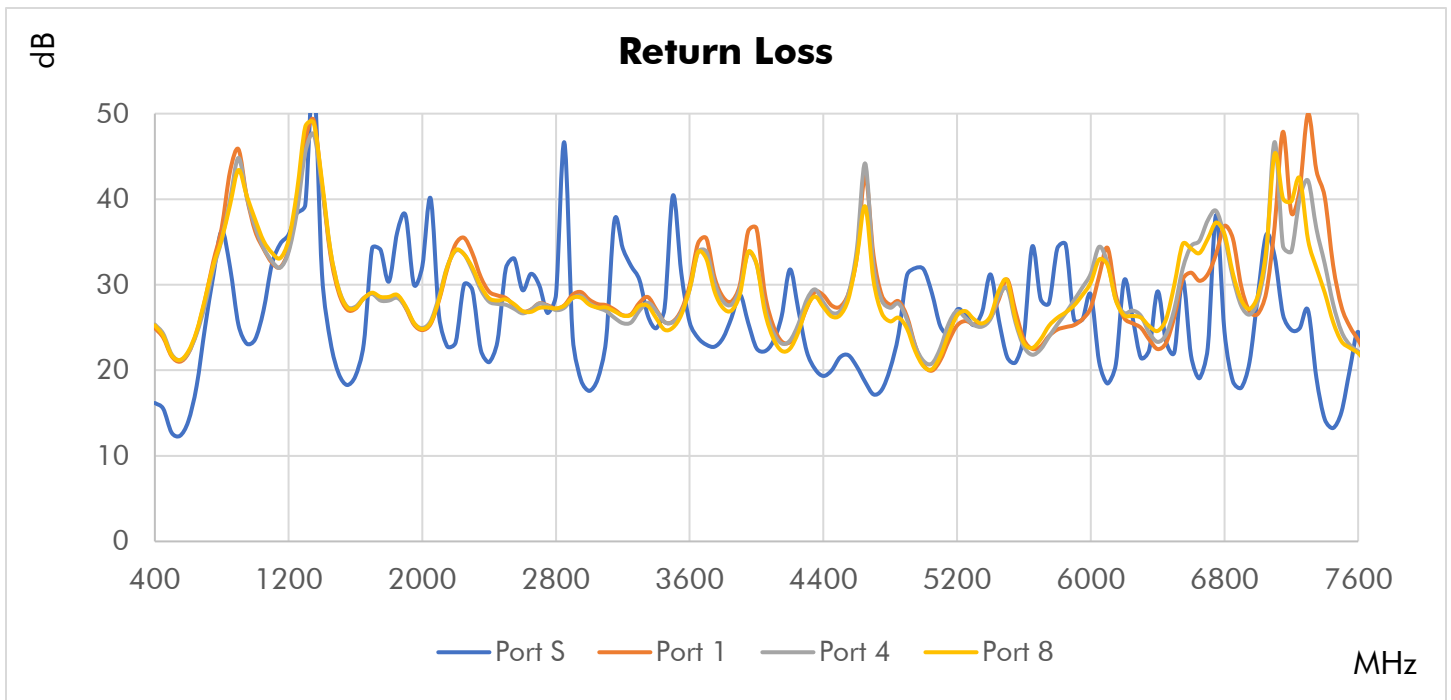
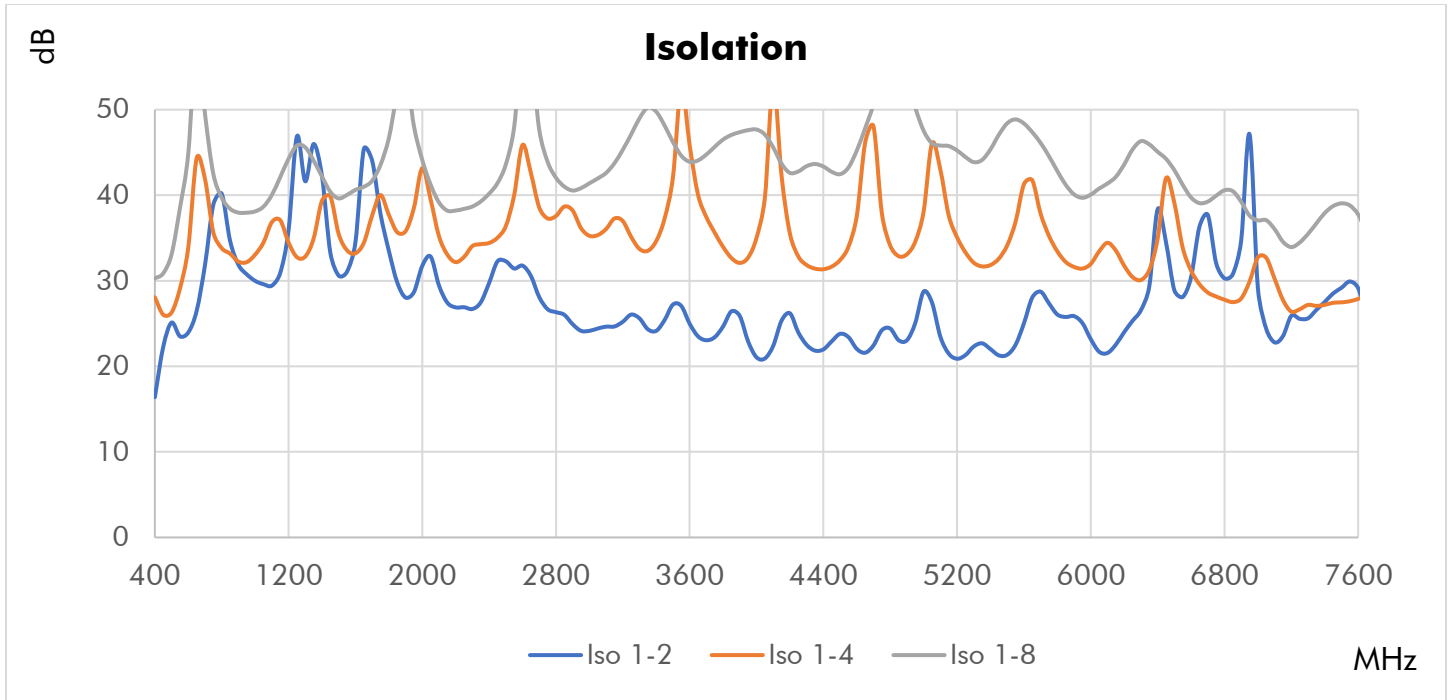
Connector Interface	SMP-Male
Operating Temperature ³	-10 to +65 °C
Storage Temperature	-55 to +100 °C
Nominal Weight	567 g (20 oz)
Operating Humidity	10-90% (non-condensing)
Operating Environment	Indoor Use Only
HTSUS Code	8548.00.0000
ECCN	EAR99

RoHS Status ⁴	RoHS3 Compliant
REACH Status ⁴	REACH Unaffected
Enclosure Material	Aluminum
Connectors Material	Brass, Gold Plated
Contacts Material	Beryllium Copper, Gold Plated
Insulators Material	Virgin PTFE
Finish	Clear Chemical Film
Country of Origin	United States of America

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



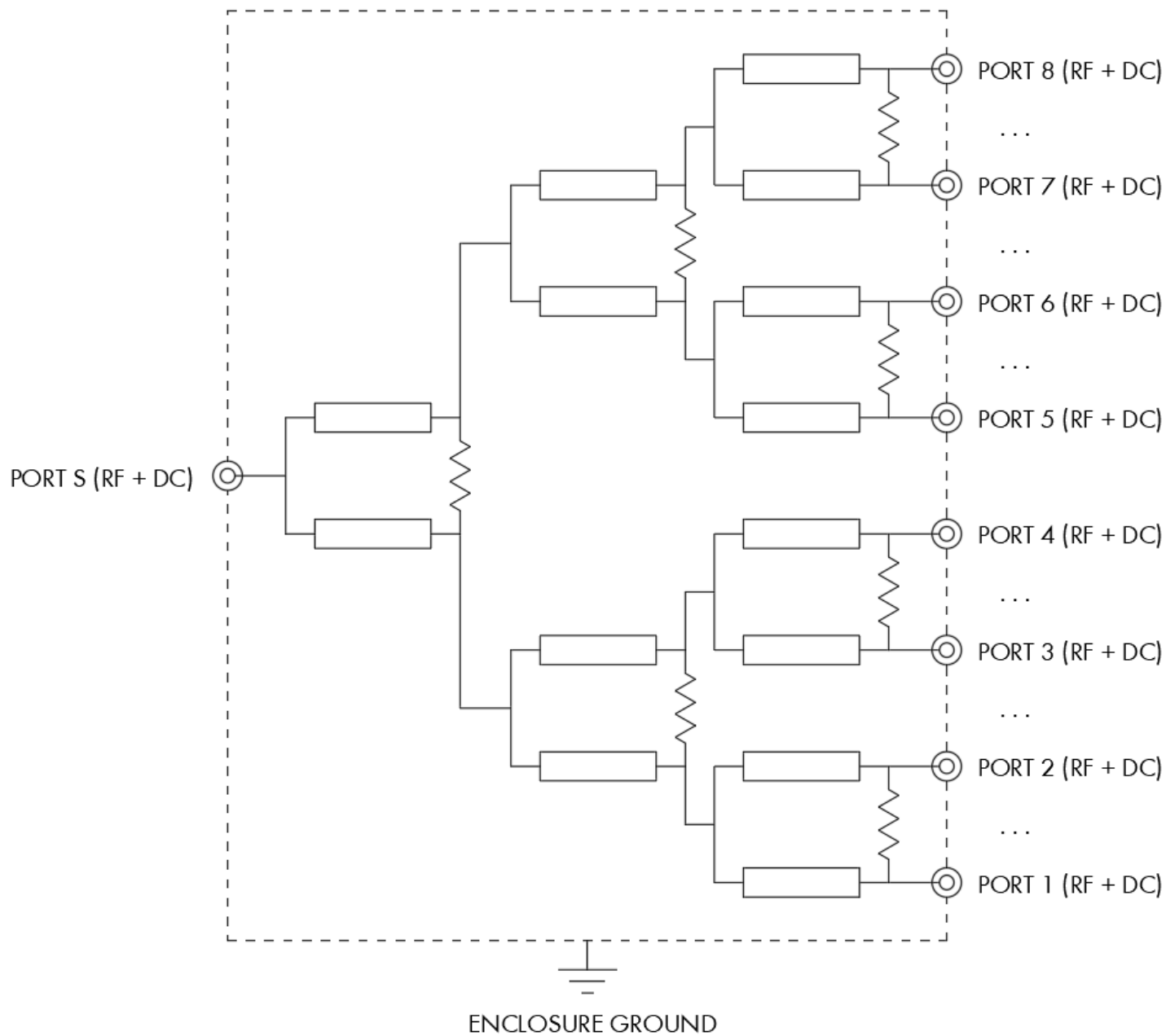


Typical Performance Data

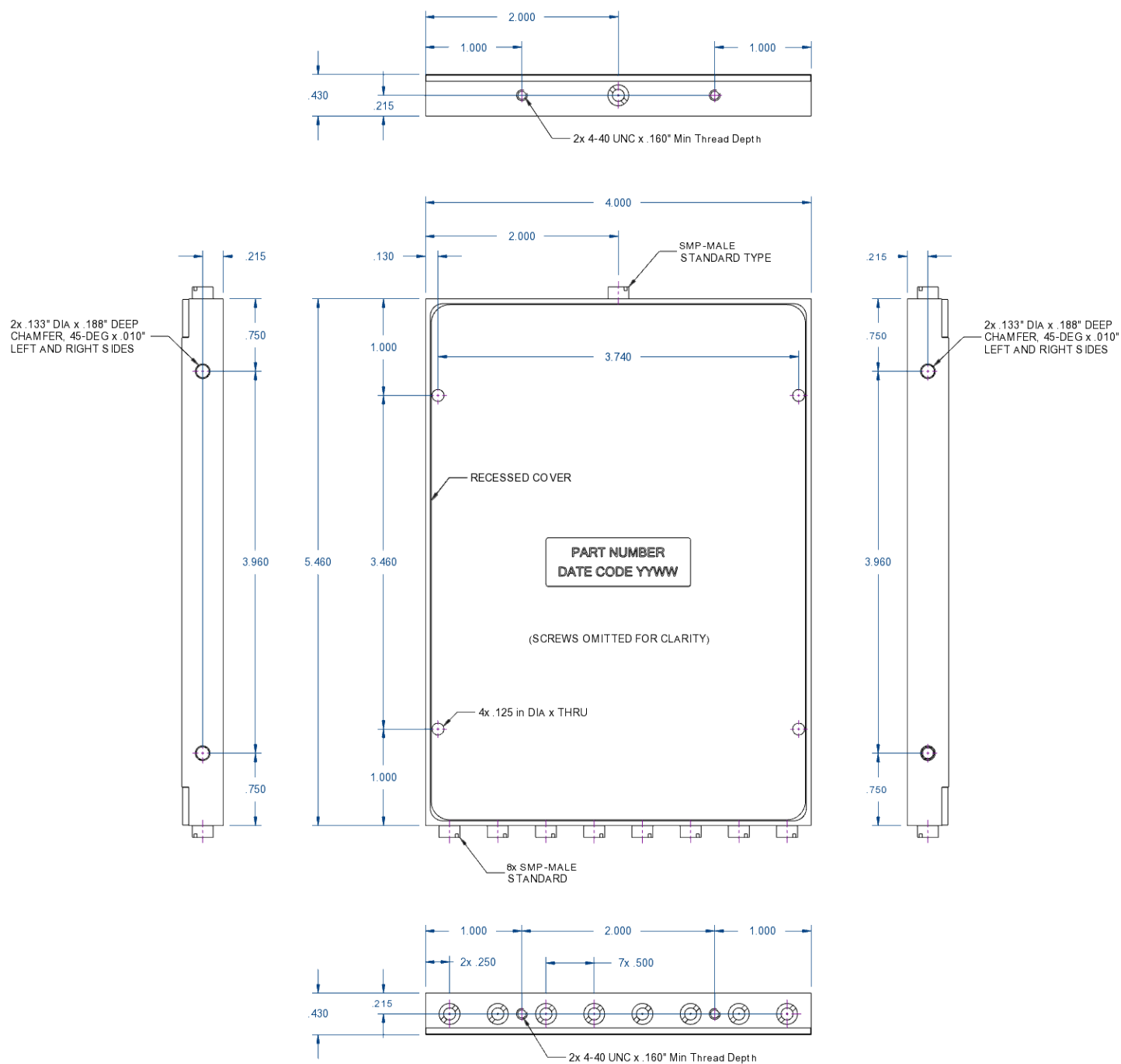
Frequency (MHz)	Return Loss (dB)			Total Loss (dB)		Isolation (dB)		
	Port S	Port 1	Port 5	S-1	S-5	1-2	1-4	1-8
400	16.18	24.94	25.06	9.43	9.42	16.39	28.07	30.28
450	15.51	23.82	23.87	9.47	9.46	22.27	26.03	30.87
500	12.72	21.66	21.78	9.59	9.62	25.11	26.29	33.09
550	12.34	21.01	21.12	9.65	9.65	23.51	29.09	38.50
600	14.04	21.98	22.16	9.56	9.57	23.96	33.91	44.90
650	18.17	24.46	24.69	9.47	9.48	26.48	44.30	58.44
700	25.00	28.21	28.76	9.47	9.43	31.85	41.88	49.48
750	31.08	32.75	32.90	9.45	9.45	38.91	35.63	42.47
800	36.30	36.65	36.58	9.46	9.46	40.18	33.81	39.70
850	32.02	43.27	41.80	9.48	9.48	34.68	33.17	38.42
900	25.33	45.85	43.18	9.51	9.52	31.87	32.24	37.97
950	23.11	40.26	39.04	9.53	9.54	30.75	32.18	37.96
1000	23.62	36.28	35.70	9.55	9.56	29.99	33.06	38.11
1500	19.61	29.10	29.27	9.73	9.73	30.60	35.47	39.63
2000	32.12	24.70	25.05	9.80	9.81	31.74	43.17	44.12
2500	31.91	28.46	28.60	9.92	9.93	32.28	36.40	43.61
3000	17.59	28.25	28.70	10.20	10.19	24.15	35.26	41.40
3500	40.43	25.70	26.11	10.19	10.19	27.22	42.11	46.22
4000	22.58	36.57	33.74	10.28	10.30	21.06	35.02	47.68
4500	21.53	27.43	25.57	10.50	10.56	23.80	32.42	42.46
5000	31.80	20.61	20.61	10.88	10.94	28.74	38.11	47.54
5500	21.54	30.61	30.21	10.70	10.99	21.35	34.14	48.41
6000	28.86	27.32	28.12	10.74	11.10	23.18	31.97	40.07
6500	22.11	26.25	26.16	10.93	10.99	28.90	39.10	42.94
7000	28.77	26.60	25.86	11.05	11.14	29.15	32.73	37.06
7500	15.12	27.44	24.55	11.39	11.60	29.18	27.48	39.05
8000	7.23	11.95	11.74	12.79	12.88	16.63	22.17	37.52

Simplified Electrical Schematic

DC PASS TO ALL PORTS



Outline Dimensions



Outline drawing: OL-8774-21-M1

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

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

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