

Power Divider, 4-way, 0.5-26.5GHz, SMA Female

WM4PD-0.5-26.5-S



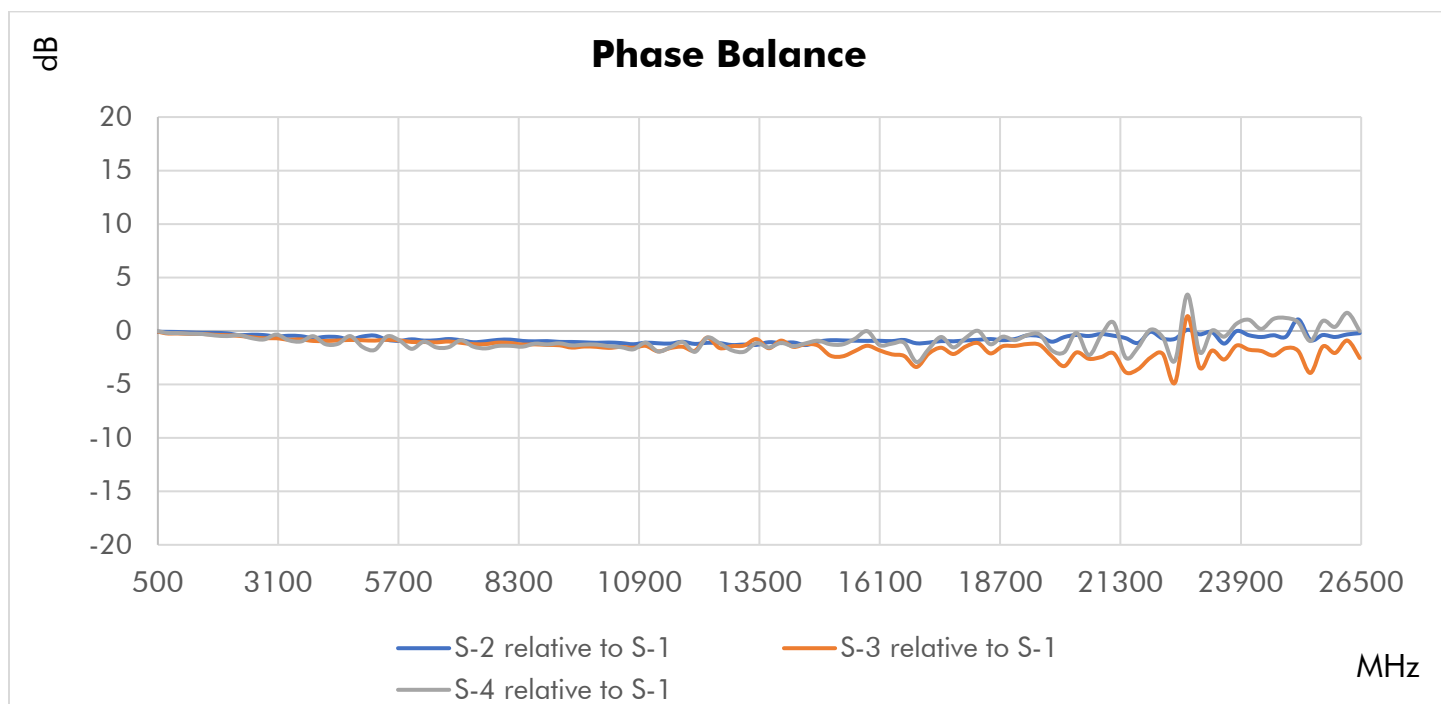
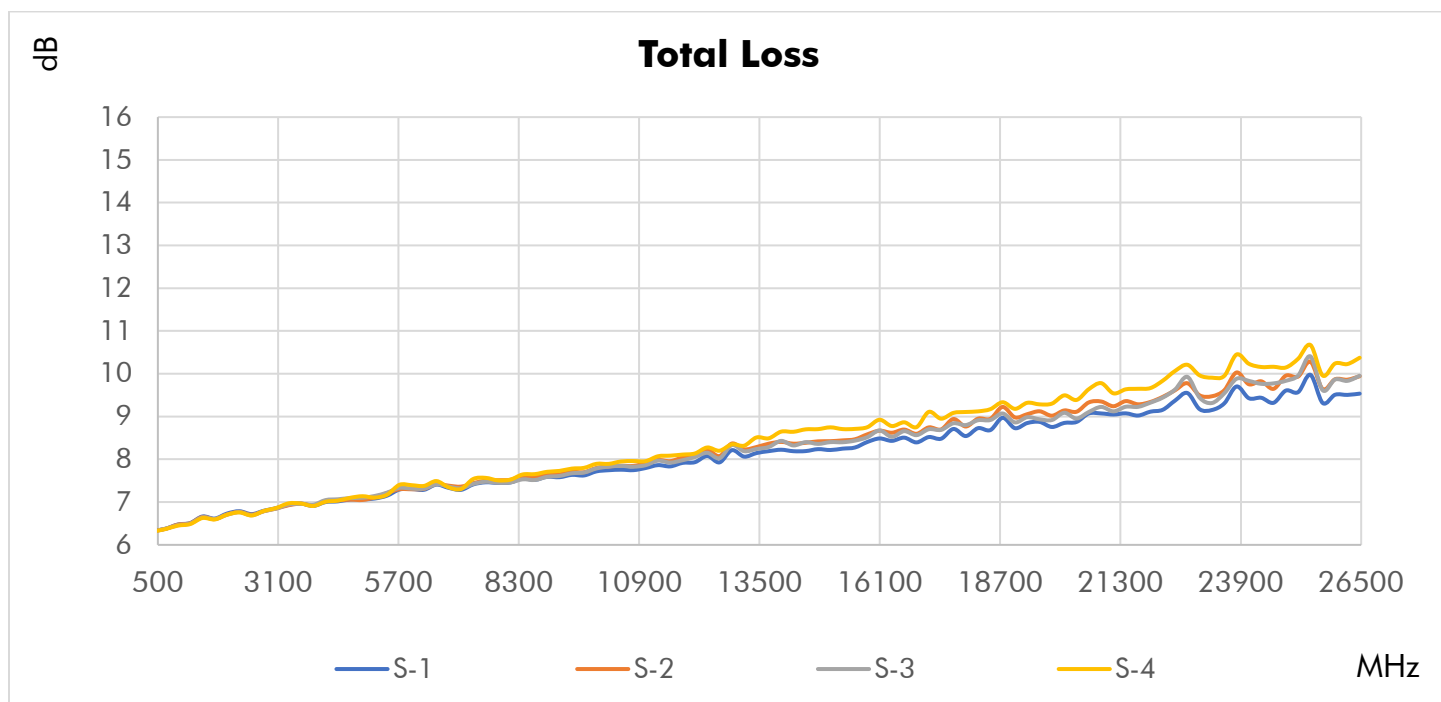
Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		500		26500	MHz
Impedance			50		Ω
Return Loss (Port S)	500-8000	10	17		dB
	8000-18000	10	16		
	18000-26500	10	17		
Return Loss (Ports 1-4)	500-8000	14	18		dB
	8000-18000	13	21		
	18000-26500	12	20		
Insertion Loss Above 6.02dB	500-8000		1.7	2.6	dB
	8000-18000		3.0	4.4	
	18000-26500		4.4	5.7	
Isolation	500-8000	12	14		dB
	8000-18000	16	21		
	18000-26500	12	17		
Amplitude Unbalance ($\pm$) ¹	500-8000		0.23	0.5	dB
	8000-18000		0.53	0.8	
	18000-26500		0.82	1.1	
Phase Unbalance ($\pm$) ¹	500-8000		3.2	4.5	Degrees
	8000-18000		5.2	9.0	
	18000-26500		6.6	12	
Input Power (CW) ²			10		W, max

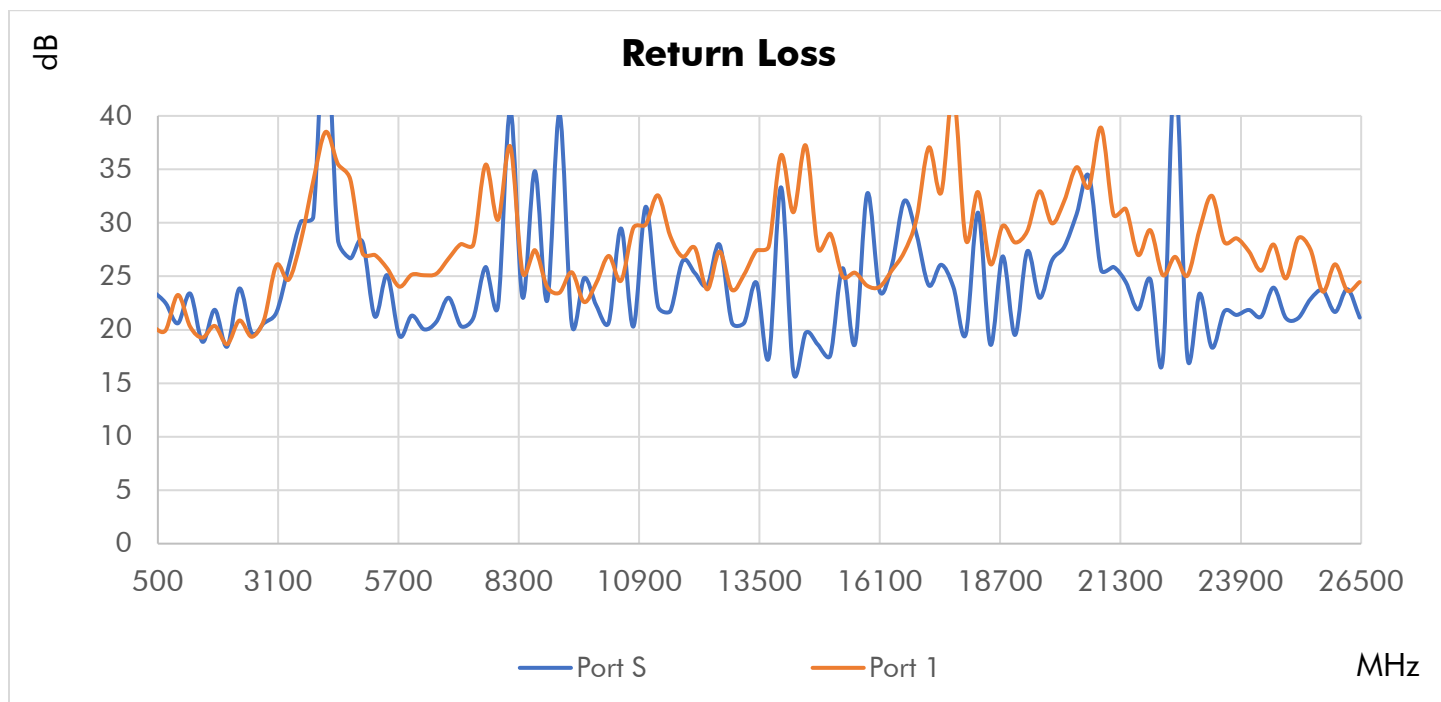
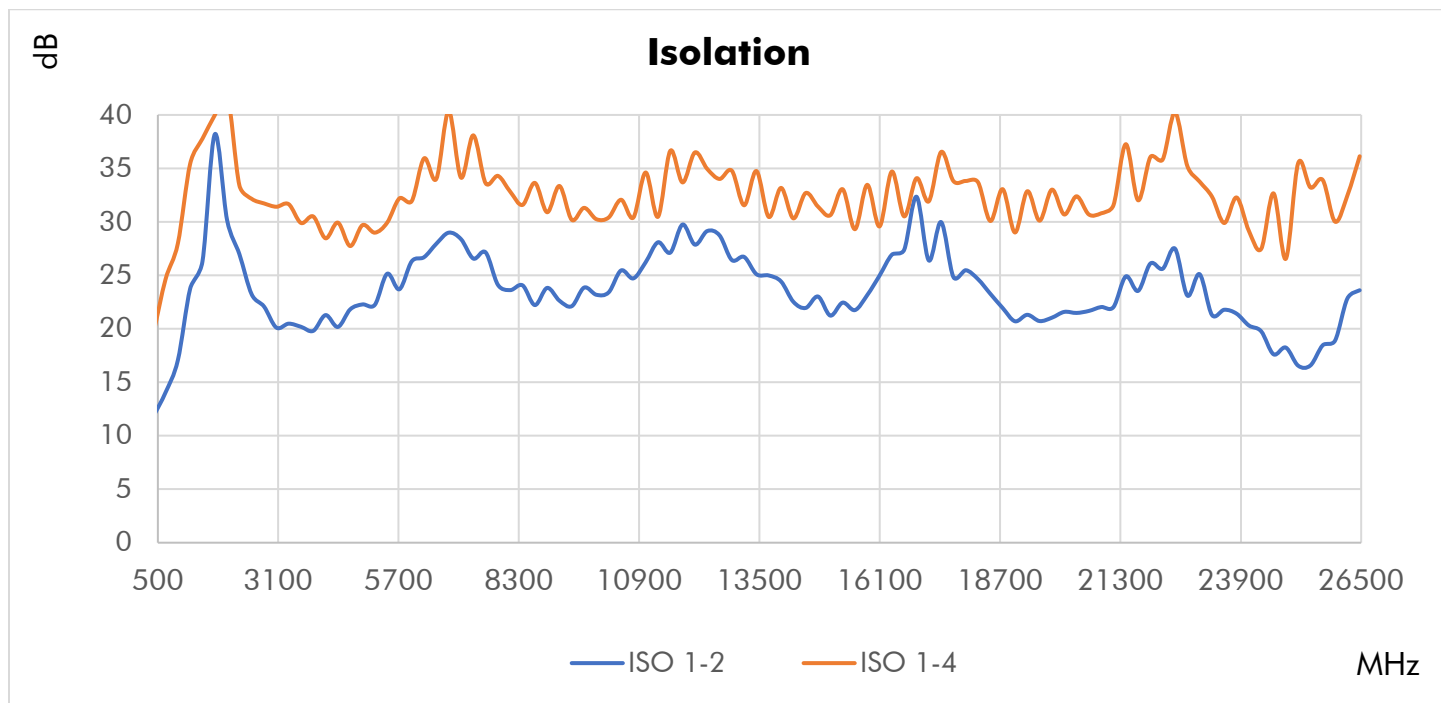
Connector Interface	SMA-Female
Operating Temperature ³	-55 to +85 °C
Storage Temperature	-55 to +100 °C
Nominal Weight	316 g (11.1 oz)
Operating Humidity	10-90% (non-condensing)
Operating Environment	Indoor Use Only
CAGE Code	78YZ0

RoHS Status ⁴	RoHS3 Compliant
REACH Status ⁴	REACH Unaffected
Enclosure Material	Aluminum
Connectors Material	Stainless Steel
Contacts Material	Beryllium Copper, Gold Plated
Insulators Material	Virgin PTFE
Finish	Green Paint

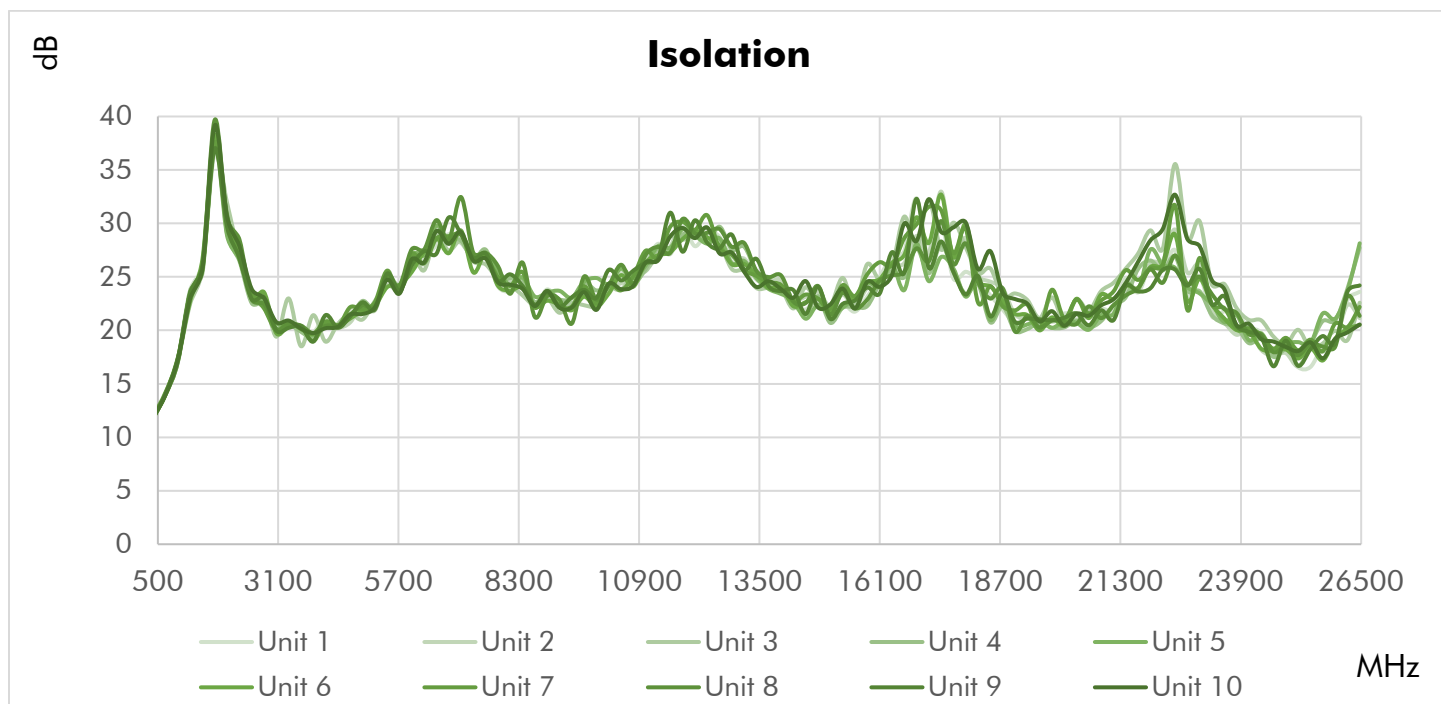
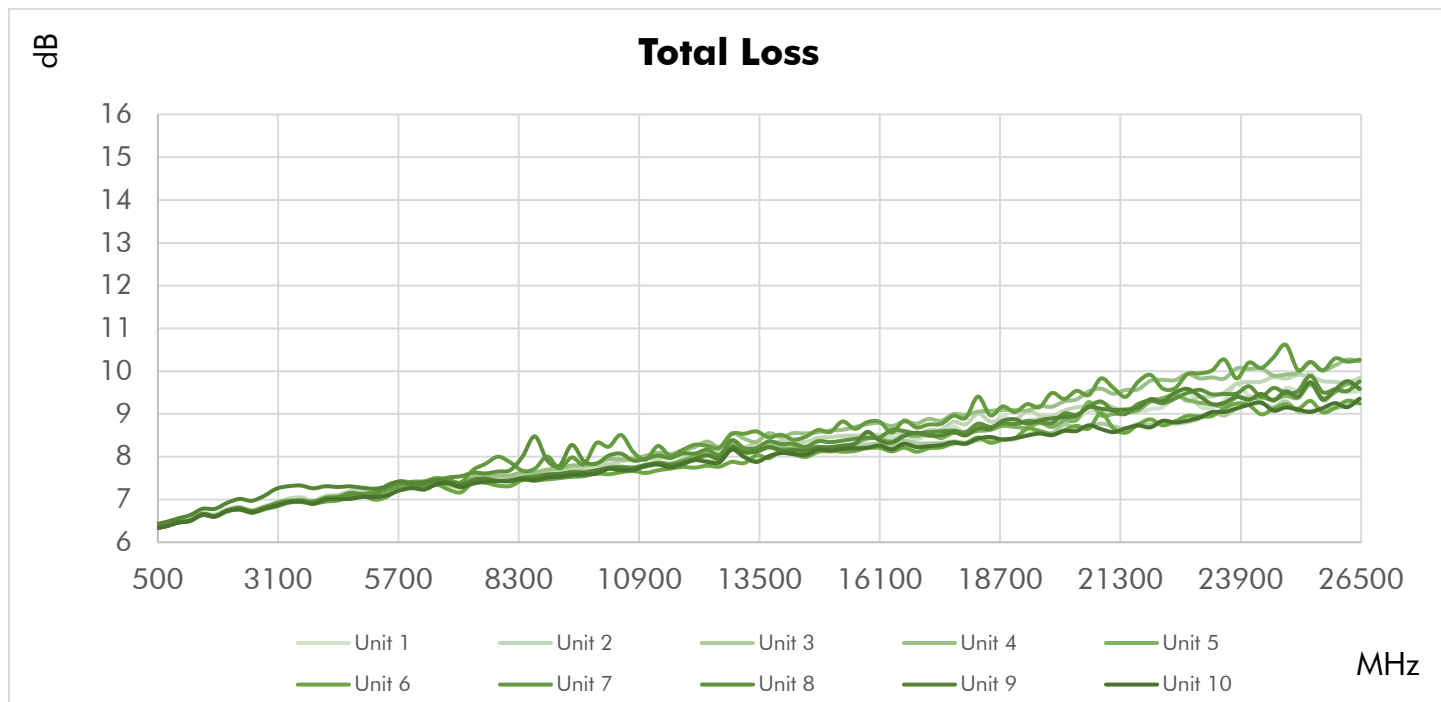
1. With reference to average.
2. All output ports should be terminated in a 50-ohm load with 1.2:1 max VSWR.
3. Electrical specifications at +25 °C.
4. To the best of our knowledge at the time of publication.

Typical Performance at +25 °C





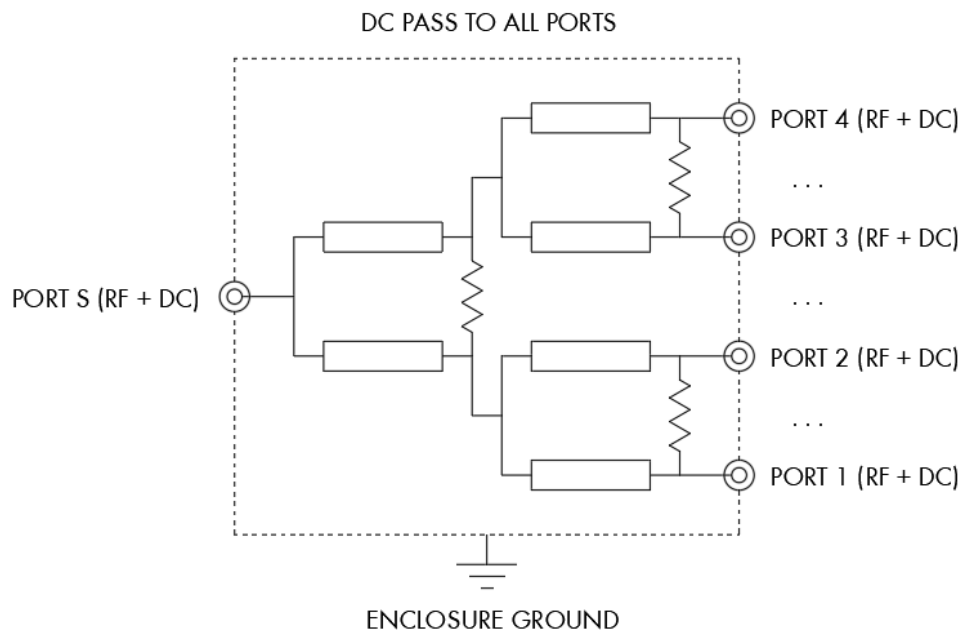
Repeatability in Production



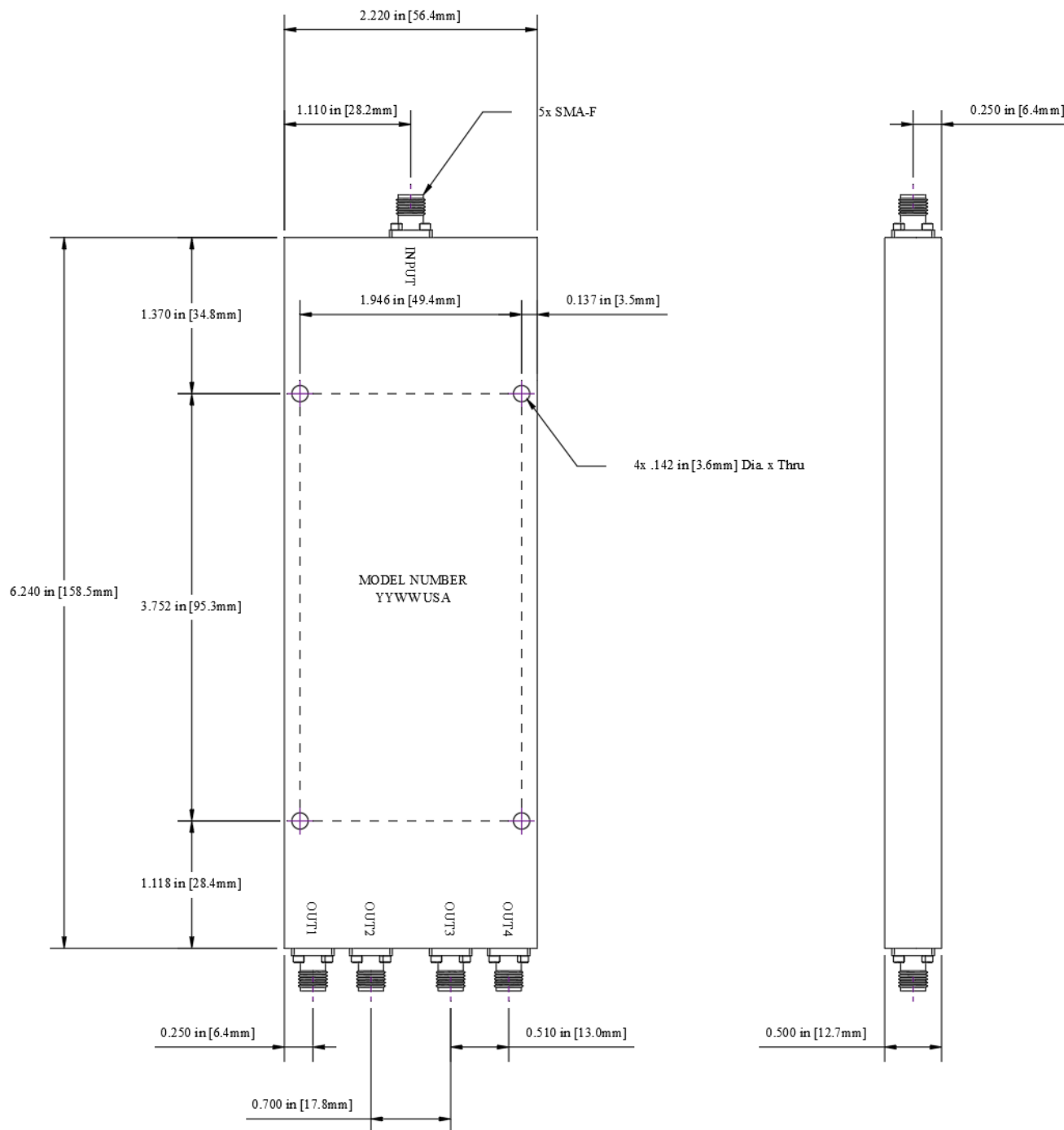
Typical Performance Data

Frequency (MHz)	Return Loss (dB)			Total Loss (dB)		Isolation (dB)	
	Port S	Port 1	Port 4	S-1	S-4	1-2	1-4
500	20.48	33.15	33.30	6.31	6.30	14.44	24.92
600	24.12	26.23	25.57	6.29	6.30	16.93	27.22
700	21.28	20.63	20.28	6.33	6.34	24.95	29.68
800	22.41	21.72	21.63	6.35	6.33	31.66	36.08
900	33.04	28.97	29.01	6.34	6.34	26.54	47.51
1000	18.28	20.94	21.00	6.43	6.43	27.10	47.10
1500	31.66	25.76	25.88	6.44	6.44	26.12	29.95
2000	34.53	24.07	24.00	6.54	6.52	20.74	31.17
2500	21.78	20.03	20.44	6.64	6.62	22.29	29.04
3000	39.49	22.95	22.53	6.69	6.66	21.16	30.25
3500	25.27	23.83	23.48	6.76	6.75	22.37	31.26
4000	24.08	33.97	38.76	6.81	6.80	28.25	36.02
4500	26.24	24.49	24.09	6.87	6.85	35.10	41.19
5000	22.36	20.15	19.73	6.95	6.94	25.03	33.76
5500	22.30	23.43	22.96	7.03	6.99	23.28	28.92
6000	25.17	20.80	22.15	7.04	7.04	24.51	30.14
6500	19.62	31.97	31.71	7.18	7.16	25.03	31.74
7000	25.97	23.75	24.61	7.17	7.18	24.89	33.66
7500	20.53	22.13	23.56	7.27	7.26	31.24	34.25
8000	20.98	20.17	21.36	7.34	7.32	28.11	41.06
8500	20.39	20.77	20.57	7.32	7.36	22.59	33.78
9000	18.50	24.86	24.26	7.42	7.42	25.65	30.86
9500	24.76	20.90	21.93	7.43	7.47	21.99	29.66
10000	18.15	18.81	18.84	7.59	7.54	24.00	31.93
10500	17.52	17.03	16.73	7.60	7.61	26.42	33.30
11000	24.61	20.85	20.37	7.59	7.55	28.58	41.19
11500	21.70	21.38	22.12	7.74	7.71	27.16	34.92
12000	29.35	19.68	20.59	7.71	7.67	23.47	30.19
12500	27.79	19.83	20.01	7.82	7.72	21.77	34.63
13000	29.00	17.95	18.19	7.90	7.81	24.25	31.45
13500	21.90	20.27	21.82	8.03	7.83	25.22	30.44
14000	25.55	21.99	25.05	8.08	7.93	30.12	38.85
14500	25.77	20.85	22.03	8.09	7.95	35.83	46.70
15000	23.07	20.94	20.24	8.17	8.02	22.33	31.97
15500	29.87	17.84	18.14	8.21	8.09	23.37	29.56
16000	30.12	21.22	24.28	8.25	8.11	19.91	28.52
16500	33.60	24.33	24.82	8.27	8.21	26.10	31.70
17000	21.04	26.76	25.45	8.47	8.37	25.59	38.13
17500	21.99	20.48	23.33	8.54	8.36	36.26	37.67
18000	22.52	22.54	23.73	8.61	8.43	24.92	33.79

Simplified Electrical Schematic



Outline Dimensions



Outline drawing: OL-4300

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

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

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