

Power Divider, 4-way, 1-26.5GHz, SMA Female

WM4PD-1-26.5-S



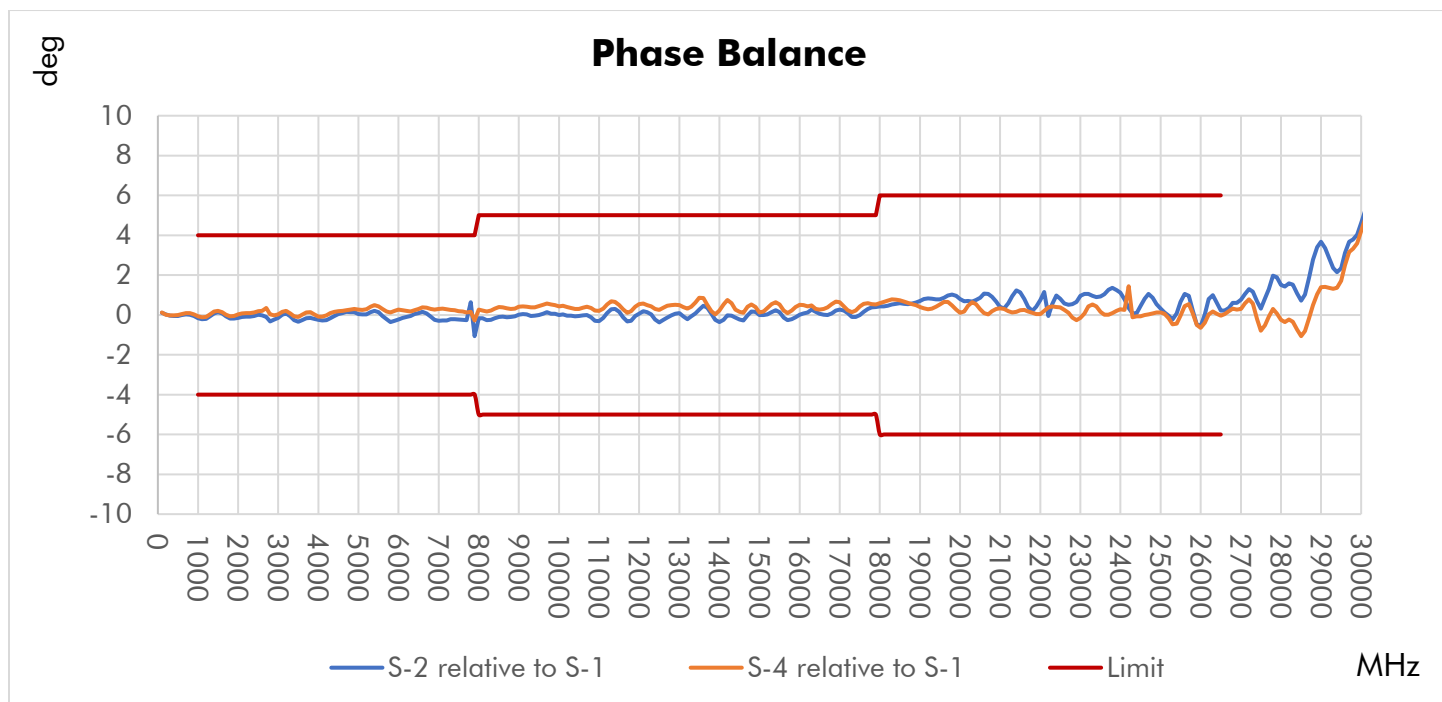
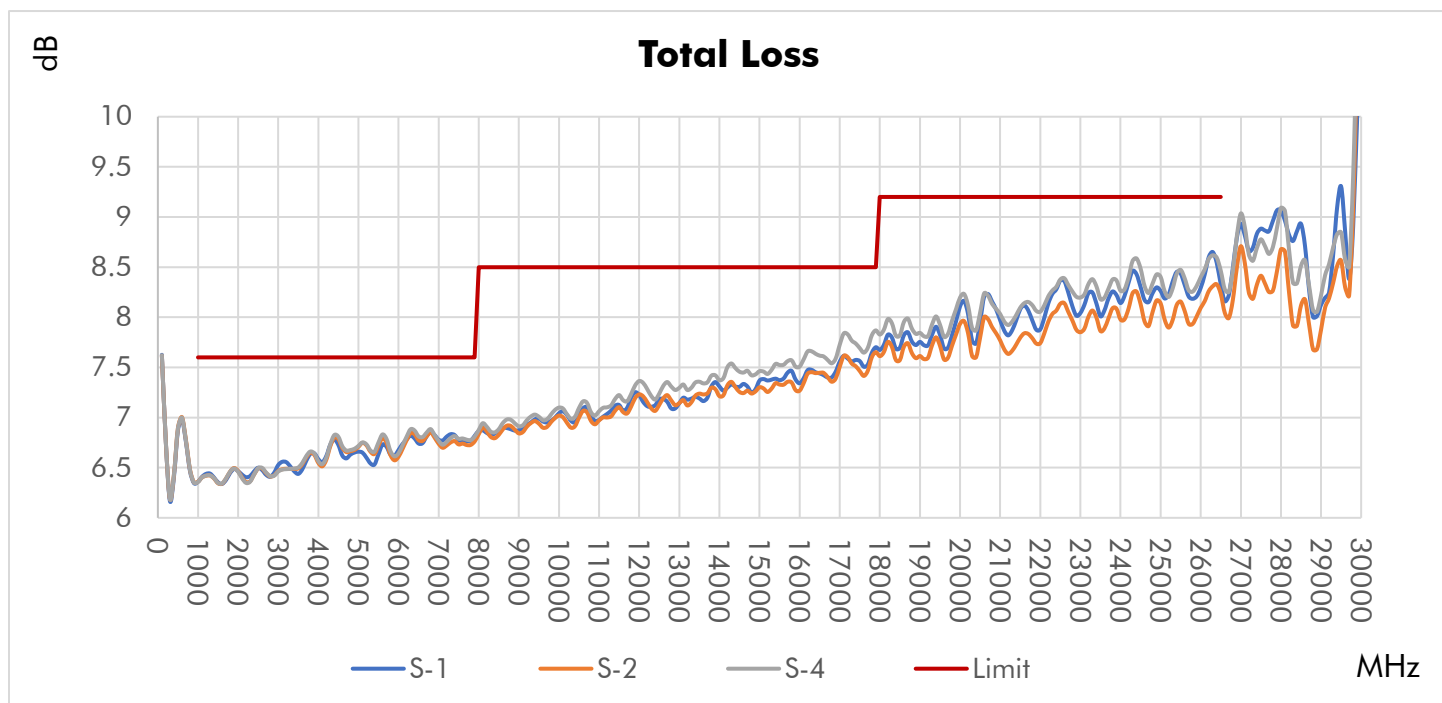
Parameter	Low Band	Mid Band	High Band	Unit
Frequency Range	1000-8000	8000-18000	18000-26500	MHz
Impedance	50			Ω
Return Loss (Port S)	11.7	11.7	11.7	dB, min.
Return Loss (Port 1-2)	13.9	13.9	12.7	dB, min.
Insertion Loss above 6dB	1.6	2.5	3.2	dB, max.
Isolation	15	17	12	dB, min.
Amplitude Unbalance ($\pm$) ¹	0.3	0.4	0.5	dB, max.
Phase Unbalance ($\pm$) ¹	4	5	6	Degree, max.
Input Power (CW) ²	10			W, max.
Combining Power (CW) ²	0.075			W/port, max.
Internal Dissipation	1.5			W, max.
DC Current	0.100			A/port, max.

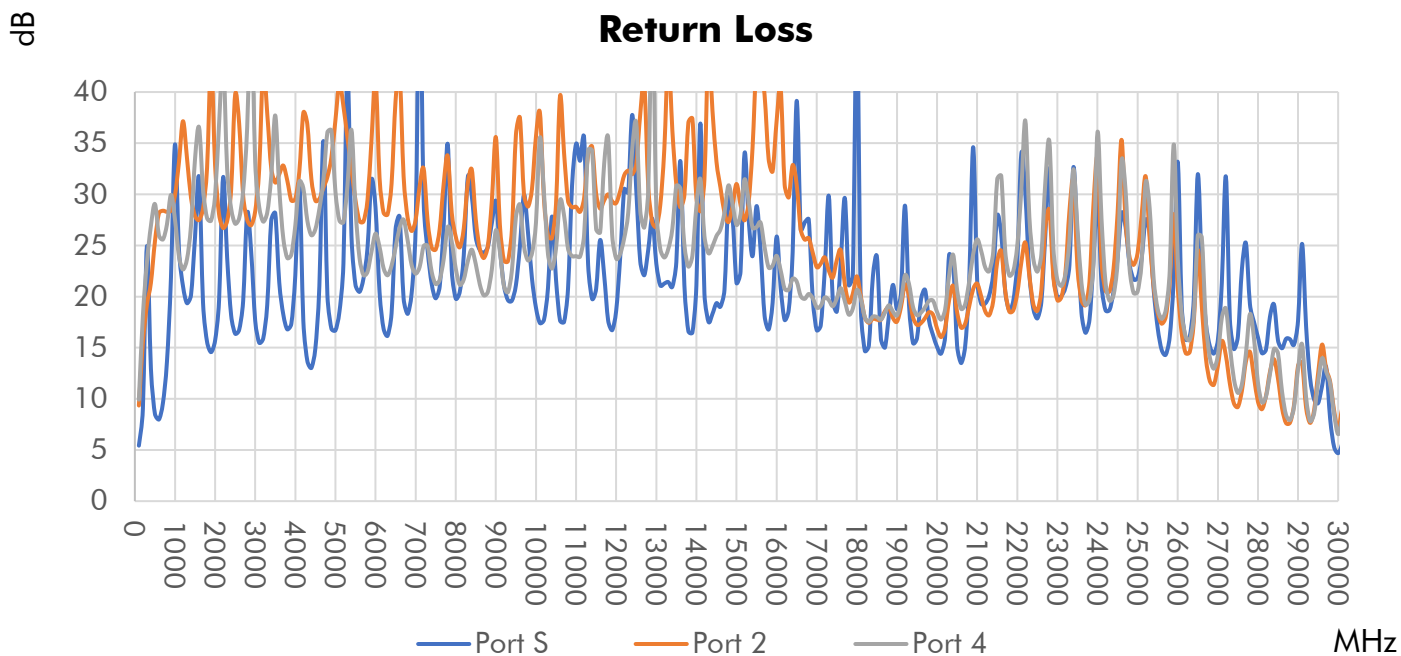
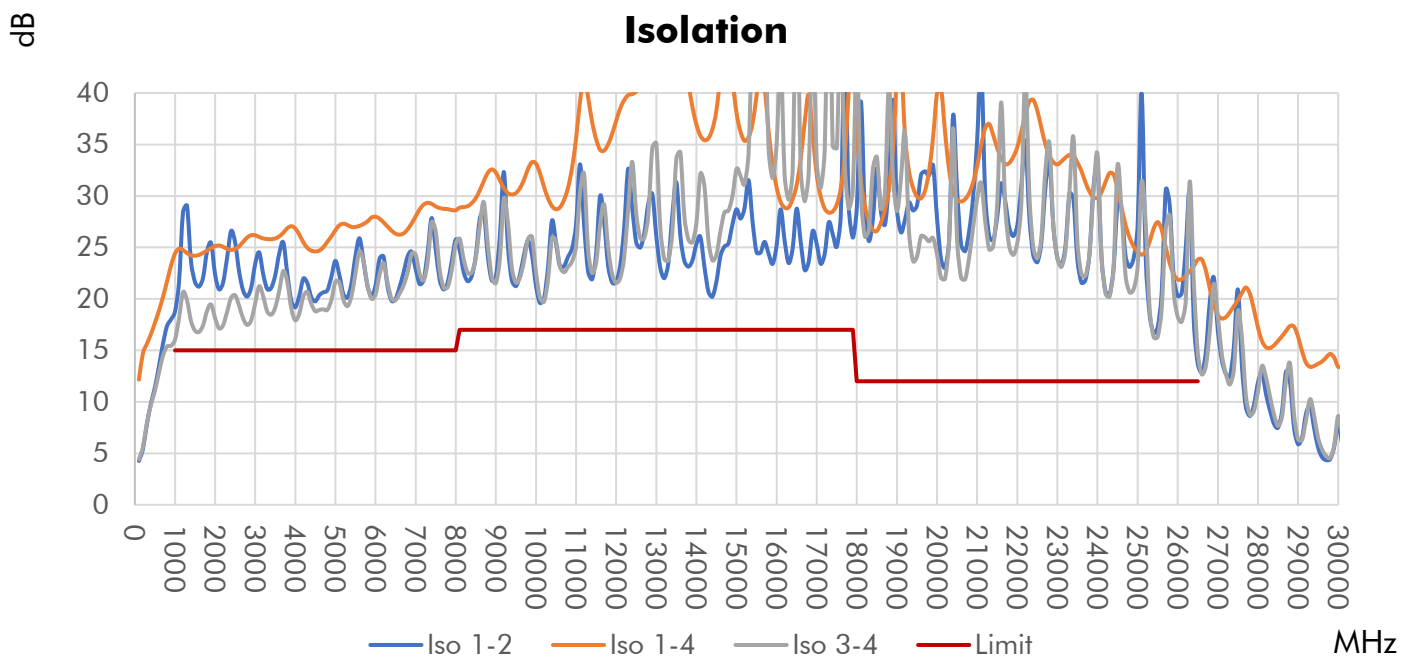
Connector Interface	SMA Female
Operating Temperature ³	-55 to +85 °C
Storage Temperature	-55 to +100 °C
Nominal Weight	212 g (7.50 oz)
Operating Humidity	10-90% (non-condensing)
Operating Environment	Indoor Use Only
HTSUS Code	8548.00.0000
ECCN	EAR99

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

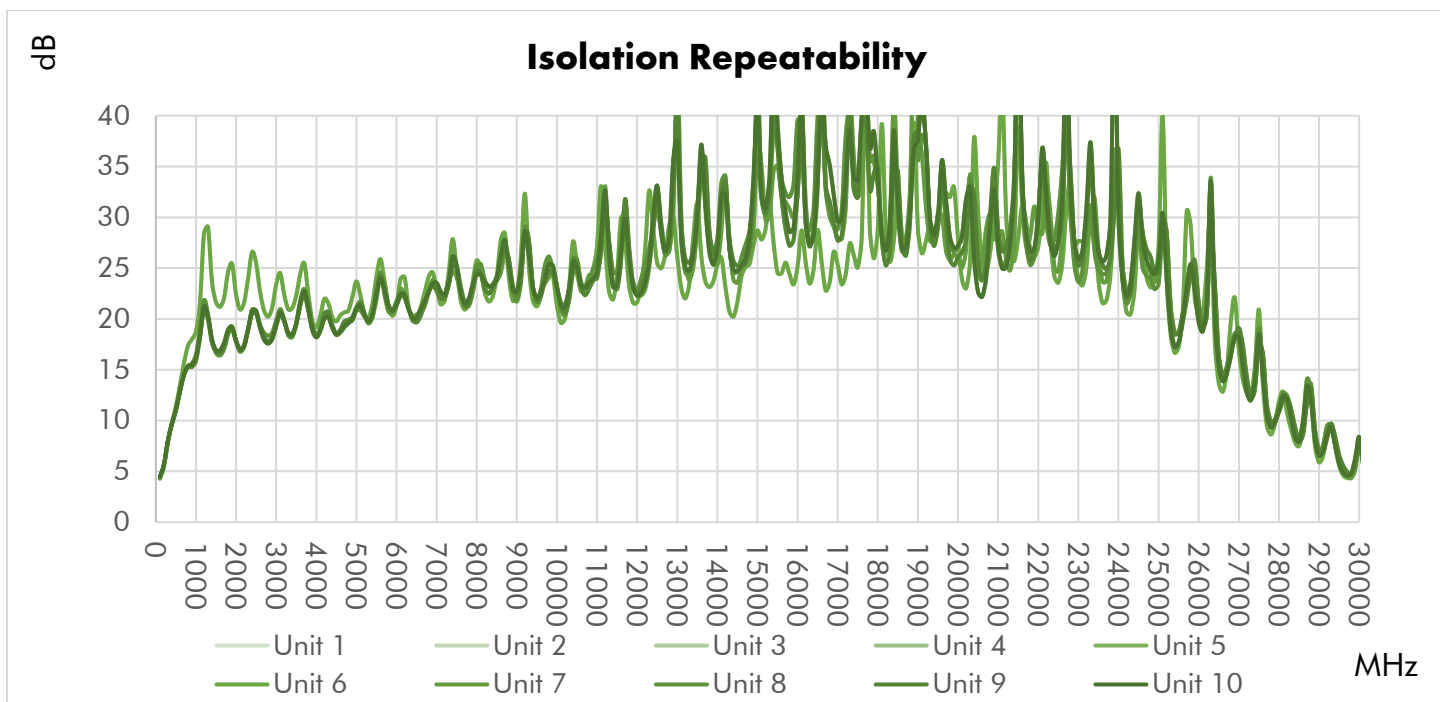
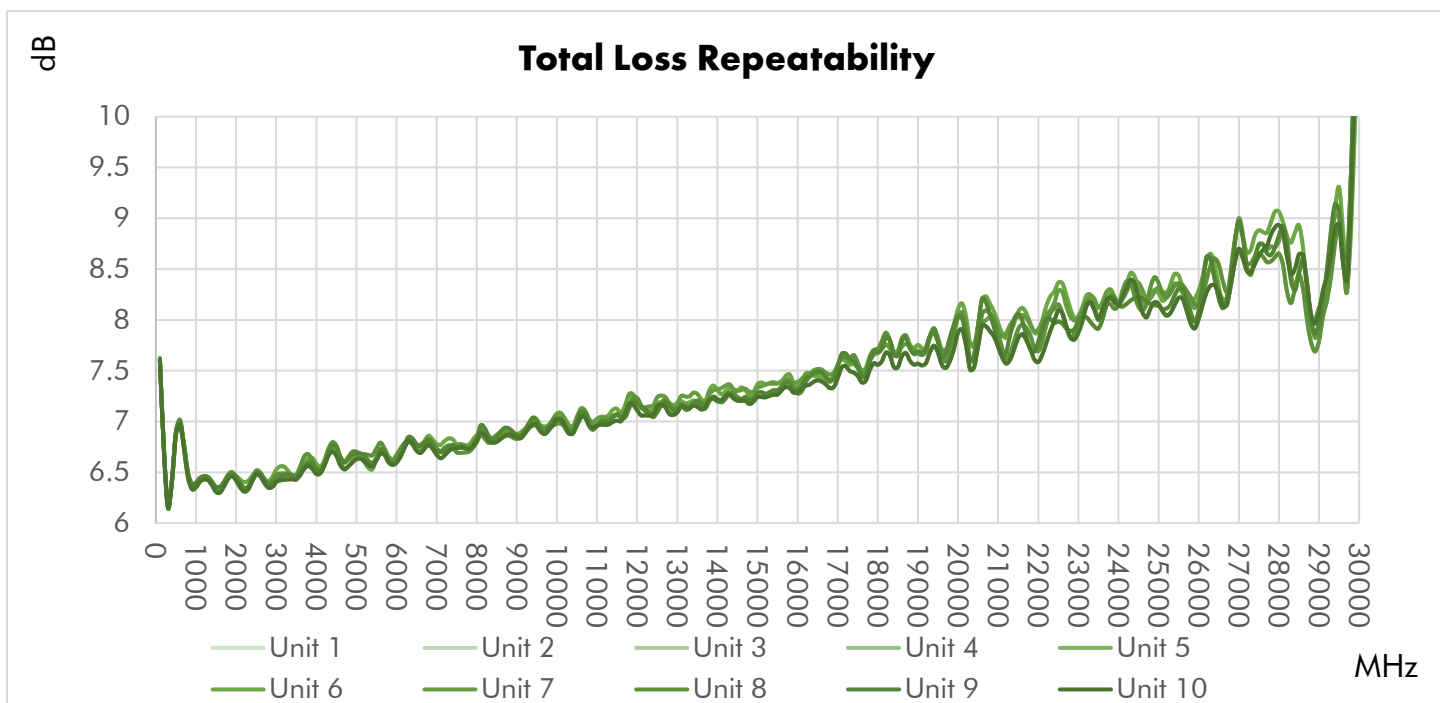
1. With reference to average.
2. All output ports should be terminated in a 50-ohm load with 1.2:1 max VSWR.
3. Electrical specifications are tested at +25 °C.
4. To the best of our knowledge at the time of publication.

Typical Performance at +25 °C





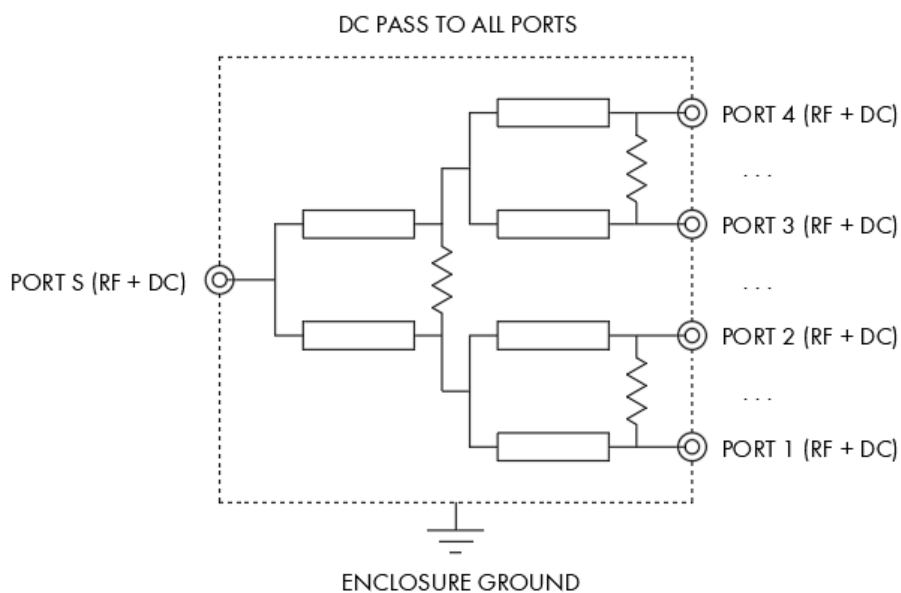
Repeatability in Production



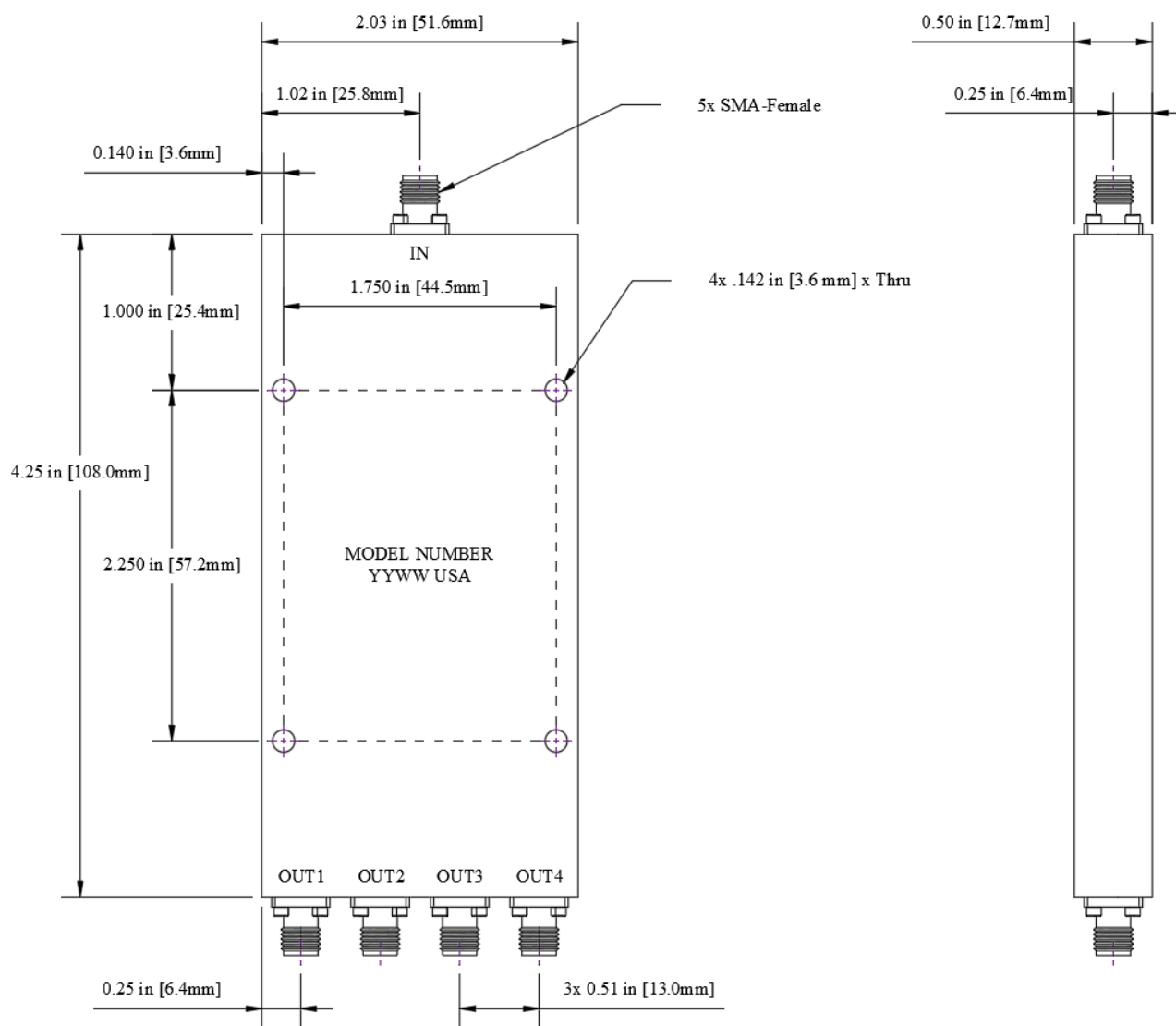
Typical Performance Data

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	8.54	25.38	29.05	6.87	6.89	11.40	17.67
600	7.98	28.15	25.99	6.99	7.00	13.45	18.85
700	9.59	28.39	25.59	6.76	6.77	15.62	20.18
800	13.65	28.29	27.06	6.47	6.48	17.35	21.67
900	21.84	28.43	29.95	6.35	6.35	18.00	23.22
1000	34.88	29.91	27.54	6.36	6.36	18.76	24.40
2000	15.70	32.84	29.84	6.47	6.46	22.38	25.13
3000	17.65	28.34	33.11	6.53	6.46	23.40	26.18
4000	22.07	29.56	26.94	6.59	6.56	19.18	26.84
5000	16.69	37.23	30.28	6.66	6.72	23.70	26.67
6000	28.72	41.45	26.16	6.68	6.64	21.30	27.98
7000	26.65	27.49	22.24	6.78	6.77	22.91	28.00
8000	19.80	25.86	22.74	6.87	6.88	25.77	28.62
9000	29.34	35.59	26.47	6.87	6.91	22.16	32.28
10000	18.91	35.65	27.23	7.04	7.10	21.29	33.16
11000	34.93	28.78	23.96	6.98	7.06	27.22	35.59
12000	18.62	29.15	23.73	7.22	7.36	21.65	37.31
13000	23.24	26.81	28.66	7.14	7.30	26.13	57.64
14000	21.10	29.61	28.83	7.31	7.37	25.32	36.93
15000	21.33	31.01	27.01	7.37	7.46	28.71	38.07
16000	25.86	37.20	23.98	7.34	7.51	25.19	30.82
17000	16.70	22.89	18.93	7.56	7.73	25.31	32.05
18000	47.32	21.99	20.65	7.67	7.83	28.91	36.40
19000	18.75	17.56	18.16	7.75	7.84	28.74	41.52
20000	15.08	16.87	18.49	8.11	8.20	27.79	40.03
21000	21.56	21.27	25.60	7.97	8.03	35.45	32.90
22000	23.39	20.33	24.99	7.88	8.06	27.12	34.74
23000	19.95	19.65	21.61	8.04	8.20	23.99	33.06
24000	30.03	33.48	36.08	8.14	8.26	32.90	29.83
25000	21.84	24.26	20.49	8.26	8.40	27.13	24.55
26000	33.18	20.93	23.79	8.29	8.40	20.27	21.89
27000	15.71	13.19	14.25	8.93	9.04	16.93	18.43
28000	16.02	9.72	11.60	9.06	9.09	11.87	17.22
29000	17.65	13.25	12.89	8.12	8.22	5.88	16.34
30000	4.69	6.98	6.54	10.85	11.63	7.94	13.41

Simplified Electrical Schematic



Outline Dimensions



Outline drawing: OL-04-0126

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

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

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