

Power Divider, 2-way, 0.5-26.5GHz, SMA Female

WM2PD-0.5-26.5-S



Parameter	Low Band	Mid Band	High Band	Unit
Frequency Range	500-8000	8000-18000	18000-26500	MHz
Impedance	50			Ω
Return Loss (Port S)	12	12	12	dB, min.
Return Loss (Port 1-2)	14	13	12	dB, min.
Insertion Loss above 3.01dB	1.4	2.1	2.6	dB, max.
Isolation	14	14	14	dB, min.
Amplitude Unbalance ($\pm$) ¹	0.6	0.6	0.8	dB, max.
Phase Unbalance ($\pm$) ¹	4	6	8	Degree, max.
Input Power (CW) ²	10			W, max.
Combining Power (CW) ²	0.075			W/port, max.
DC Current	0.25			A/port, max.

Connector Interface SMA Female

Operating Temperature³ -55 to +85 °C

Storage Temperature -55 to +100 °C

Nominal Weight 141 g (4.97 oz)

Operating Humidity 10-90% (non-condensing)

Operating Environment Indoor Use Only

HTSUS Code 8548.00.0000

ECCN EAR99

RoHS Status⁴

REACH Status⁴

Enclosure Material

Connectors Material

Contacts Material

Insulators Material

Finish

Country of Origin

RoHS3 Compliant

REACH Unaffected

Aluminum

Stainless Steel

Beryllium Copper, Gold Plated

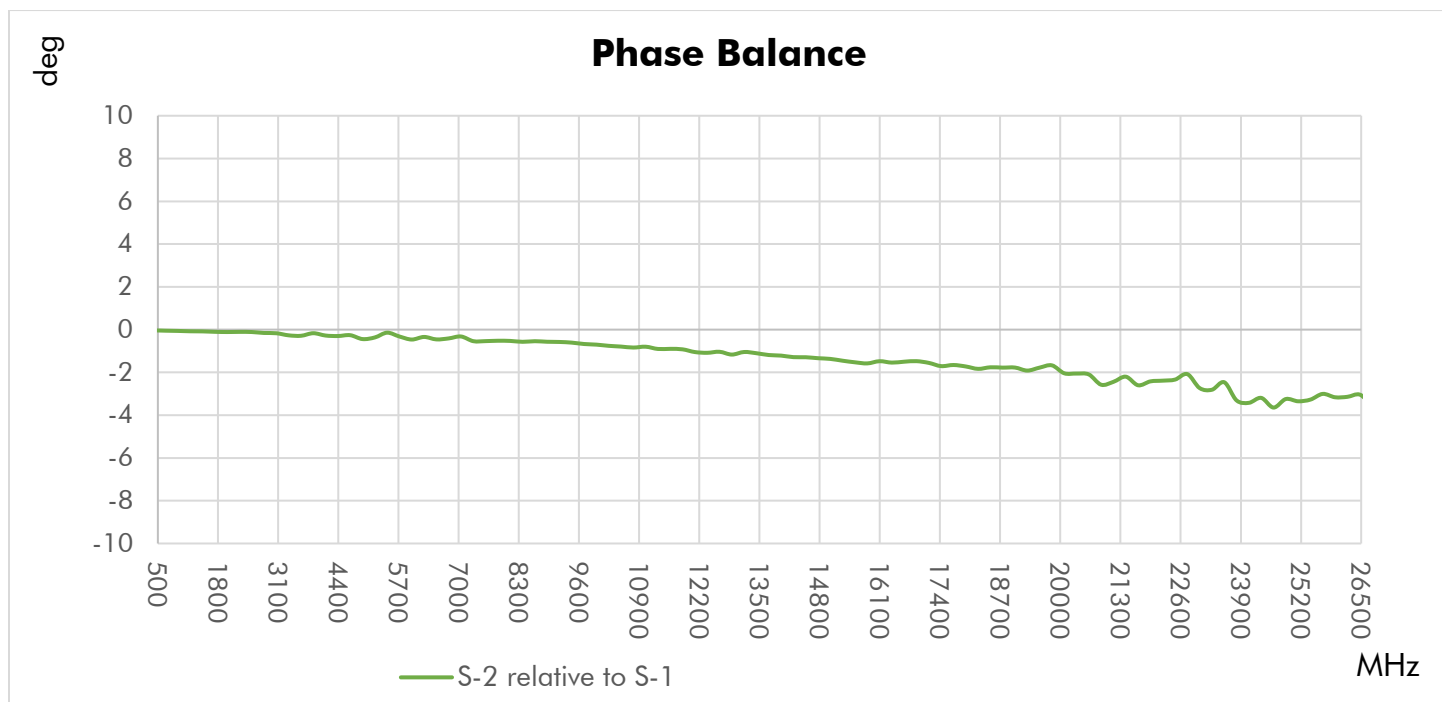
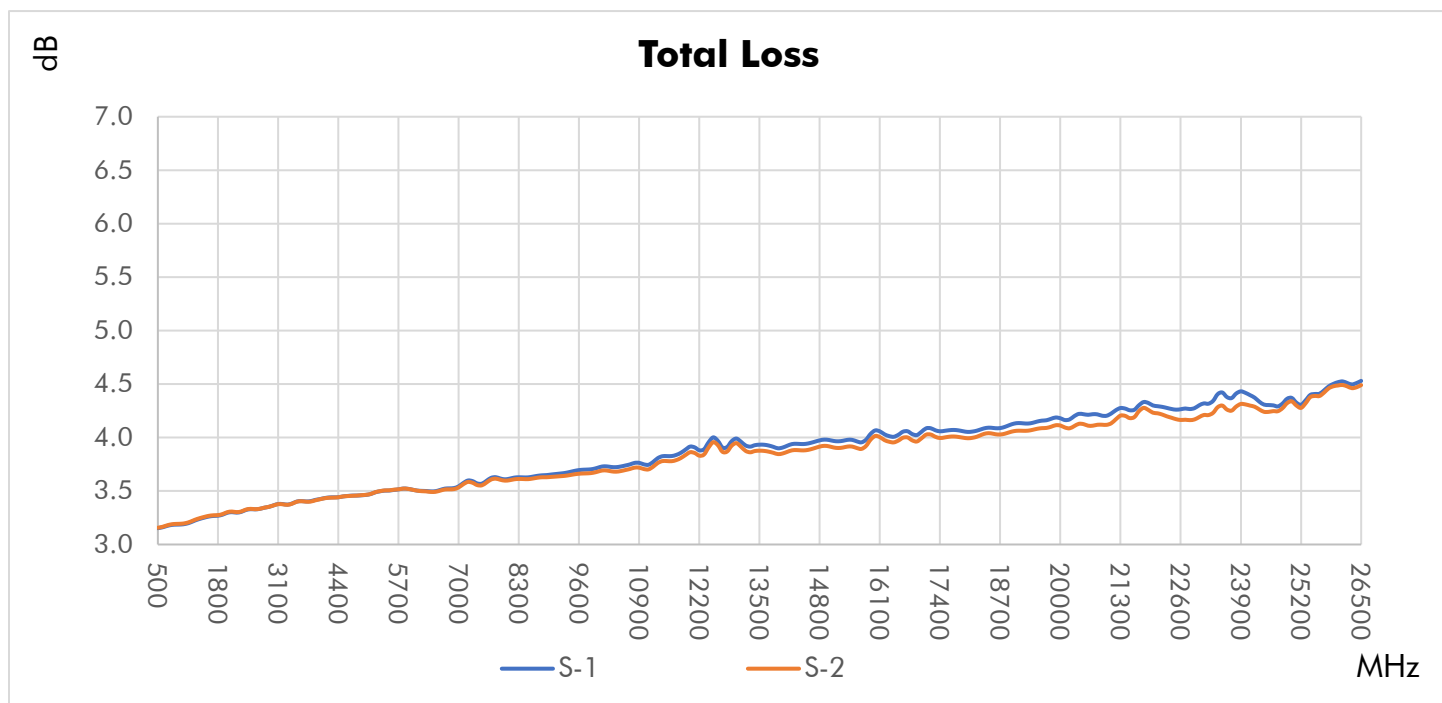
Virgin PTFE

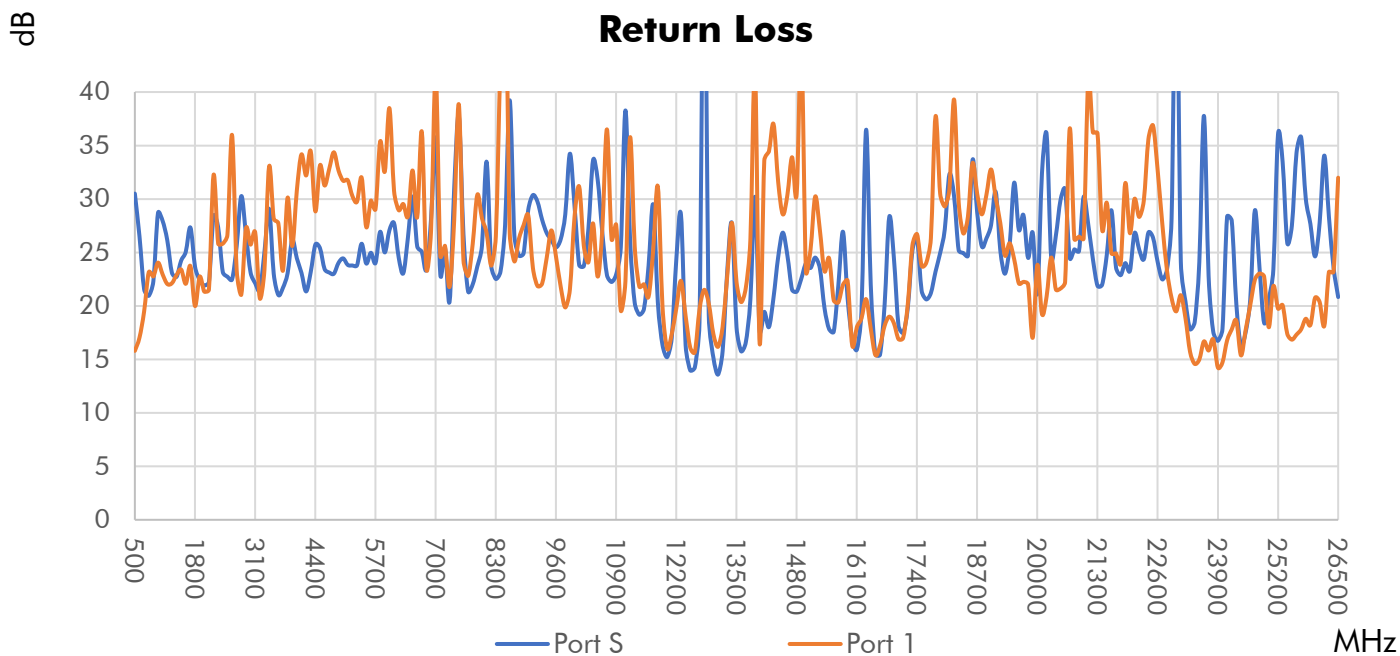
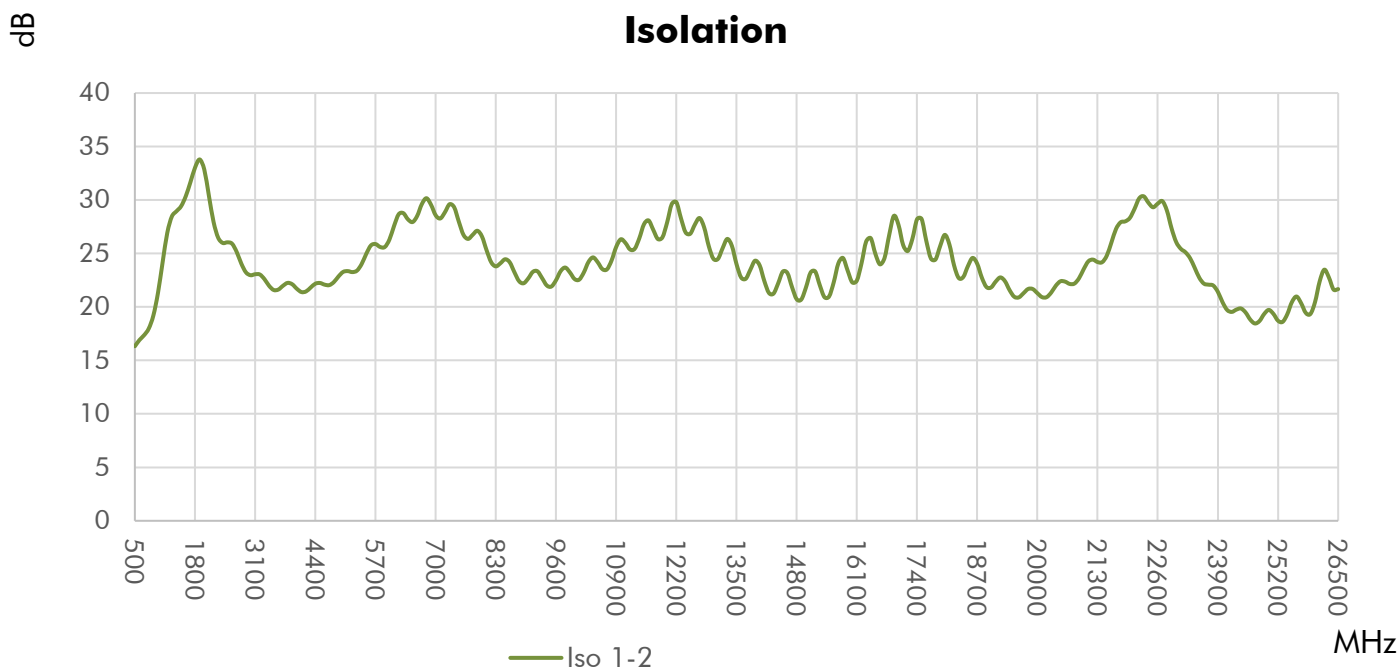
Green Paint

United States of America

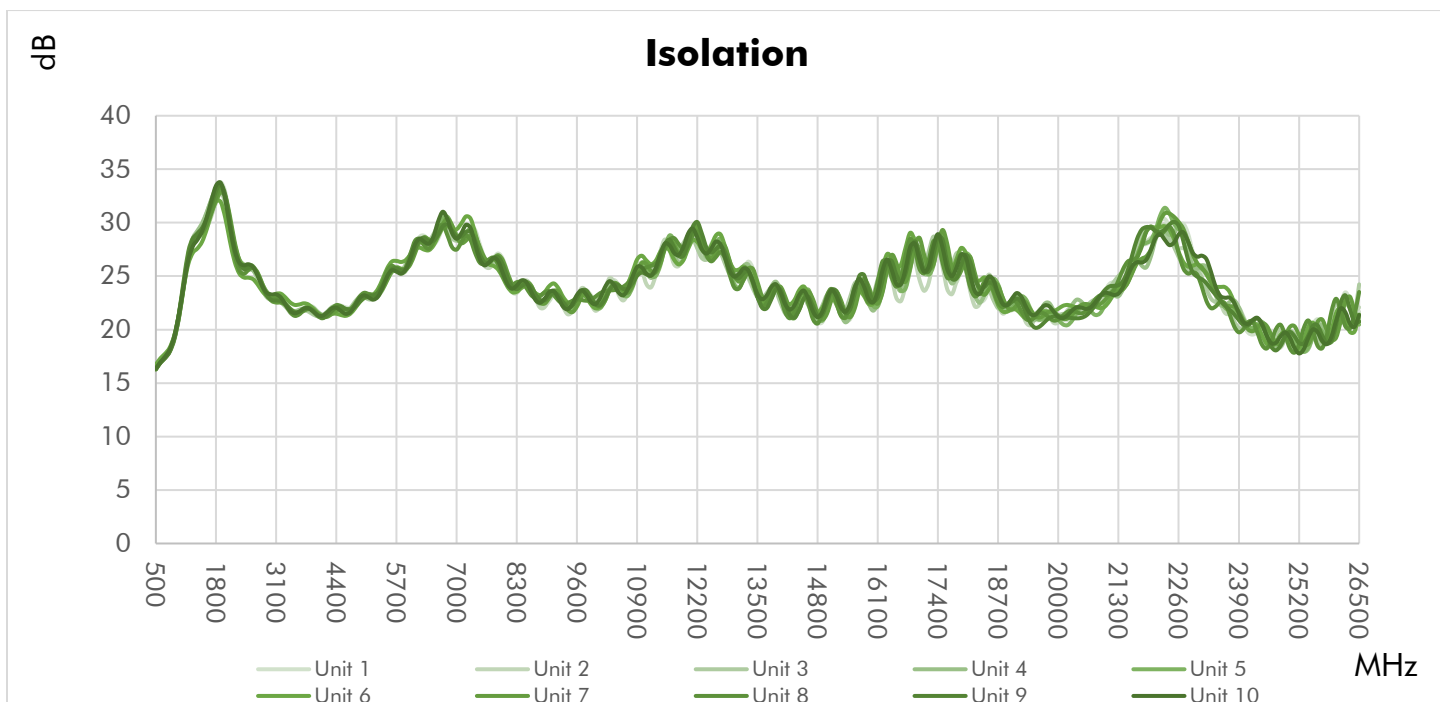
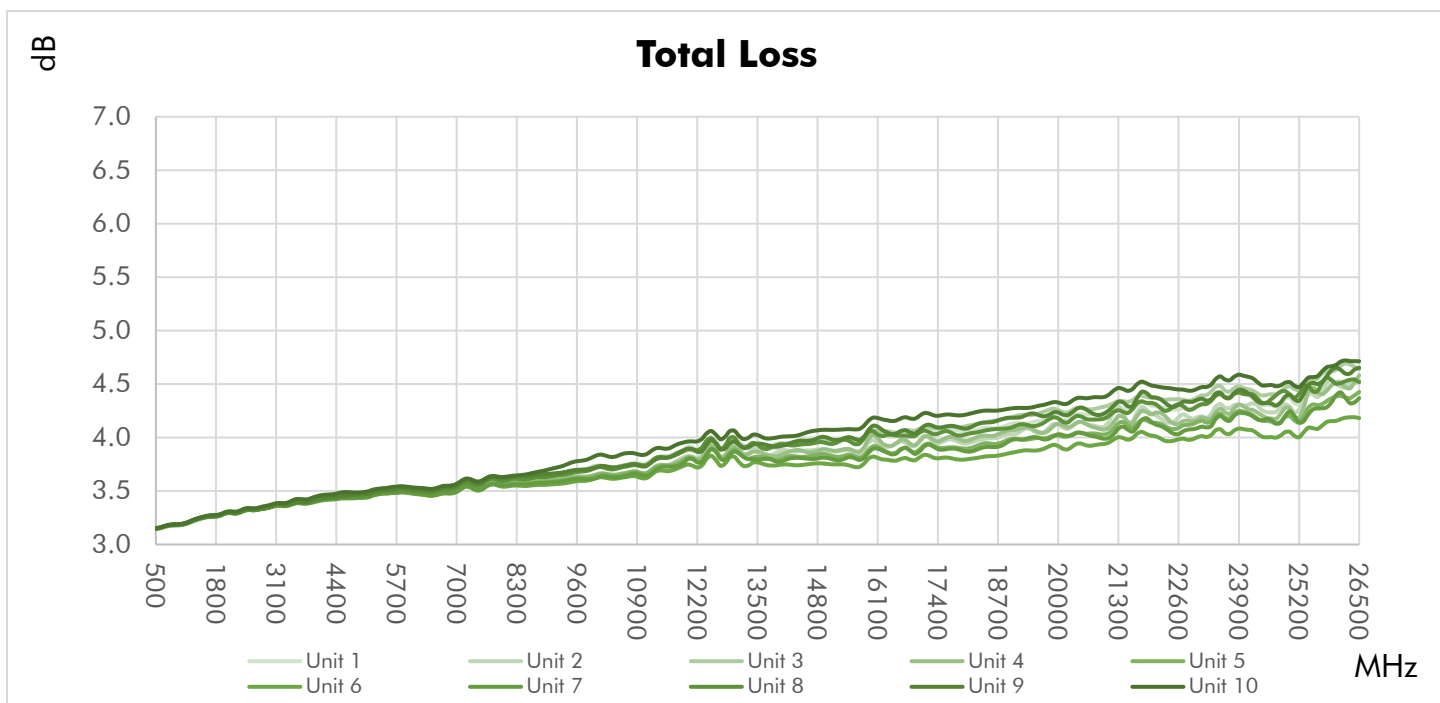
1. With reference to average.
2. All output ports should be terminated in a 50-ohm load with 1.2:1 max VSWR.
3. Electrical specifications are tested at +25 °C.
4. To the best of our knowledge at the time of publication.

Typical Performance at +25 °C





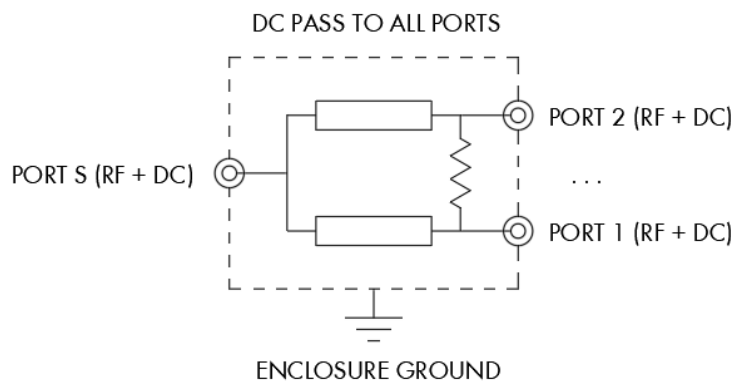
Repeatability in Production



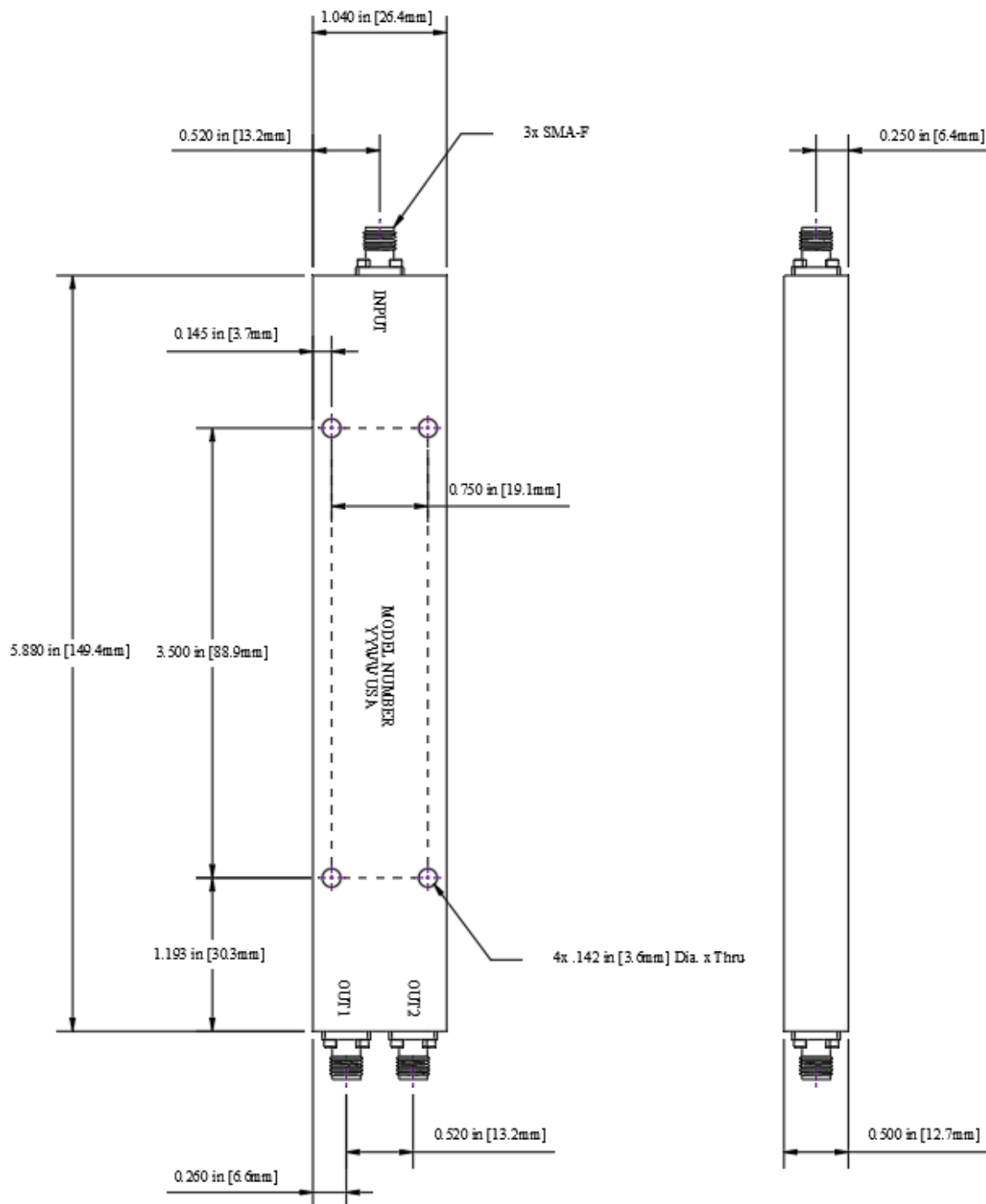
Typical Performance Data

Frequency (MHz)	Return Loss (dB)			Total Loss (dB)		Isolation (dB)
	Port S	Port 1	Port 2	S-1	S-2	
500	31.48	15.79	15.71	3.13	3.14	17.42
600	24.36	16.93	16.77	3.14	3.15	17.44
700	20.64	18.99	18.73	3.15	3.17	17.57
800	20.32	21.76	21.39	3.16	3.18	18.01
900	22.60	24.32	23.82	3.16	3.18	19.15
1000	28.79	24.46	24.02	3.16	3.18	21.17
1500	25.29	23.48	23.50	3.22	3.23	28.98
2000	22.97	21.41	21.54	3.27	3.28	32.58
2500	21.94	22.16	22.24	3.28	3.30	25.40
3000	23.50	26.02	25.82	3.30	3.31	22.79
3500	22.86	30.75	30.30	3.34	3.35	21.46
4000	22.48	36.80	38.47	3.36	3.37	21.08
4500	23.94	29.52	30.32	3.38	3.39	21.88
5000	25.11	29.21	29.92	3.39	3.39	23.00
5500	26.72	32.50	32.51	3.40	3.39	24.74
6000	24.52	33.71	31.62	3.41	3.40	26.21
6500	23.14	29.07	28.73	3.42	3.41	28.10
7000	22.43	29.77	29.83	3.44	3.43	27.93
7500	23.66	34.60	33.19	3.46	3.44	26.85
8000	27.71	30.83	29.26	3.44	3.43	25.73
8500	40.65	27.55	25.82	3.46	3.44	24.31
9000	30.09	26.89	25.48	3.47	3.46	22.83
9500	27.56	31.01	28.41	3.50	3.48	21.80
10000	26.81	29.92	29.71	3.53	3.50	21.52
11000	39.53	26.40	26.81	3.60	3.56	25.53
12000	20.12	22.21	21.71	3.72	3.67	28.23
13000	16.22	19.84	18.90	3.87	3.84	24.66
14000	19.92	25.88	24.83	3.86	3.80	23.14
15000	29.45	26.67	25.07	3.89	3.83	22.13
16000	21.36	27.27	24.69	3.97	3.93	21.45
17000	21.35	27.92	24.45	3.99	3.94	26.20
18000	30.30	28.83	26.00	4.02	3.97	26.85
19000	21.26	26.69	24.03	4.09	4.06	22.16
20000	23.43	30.60	36.36	4.19	4.13	20.75
21000	27.82	25.28	31.89	4.16	4.11	22.18
22000	24.77	29.42	25.85	4.27	4.23	27.92
23000	30.46	27.93	34.30	4.32	4.24	25.21
24000	28.67	21.23	25.98	4.38	4.31	21.37
25000	24.08	30.23	30.32	4.33	4.37	19.60
26000	32.93	25.89	23.55	4.48	4.51	20.19
26500	29.73	27.25	25.20	4.50	4.55	20.06

Simplified Electrical Schematic



Outline Dimensions



Outline drawing: OL-2300

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

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

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