

Power Divider, 2-way, 1-18GHz, SMA Female

WM2PD-1-18-S



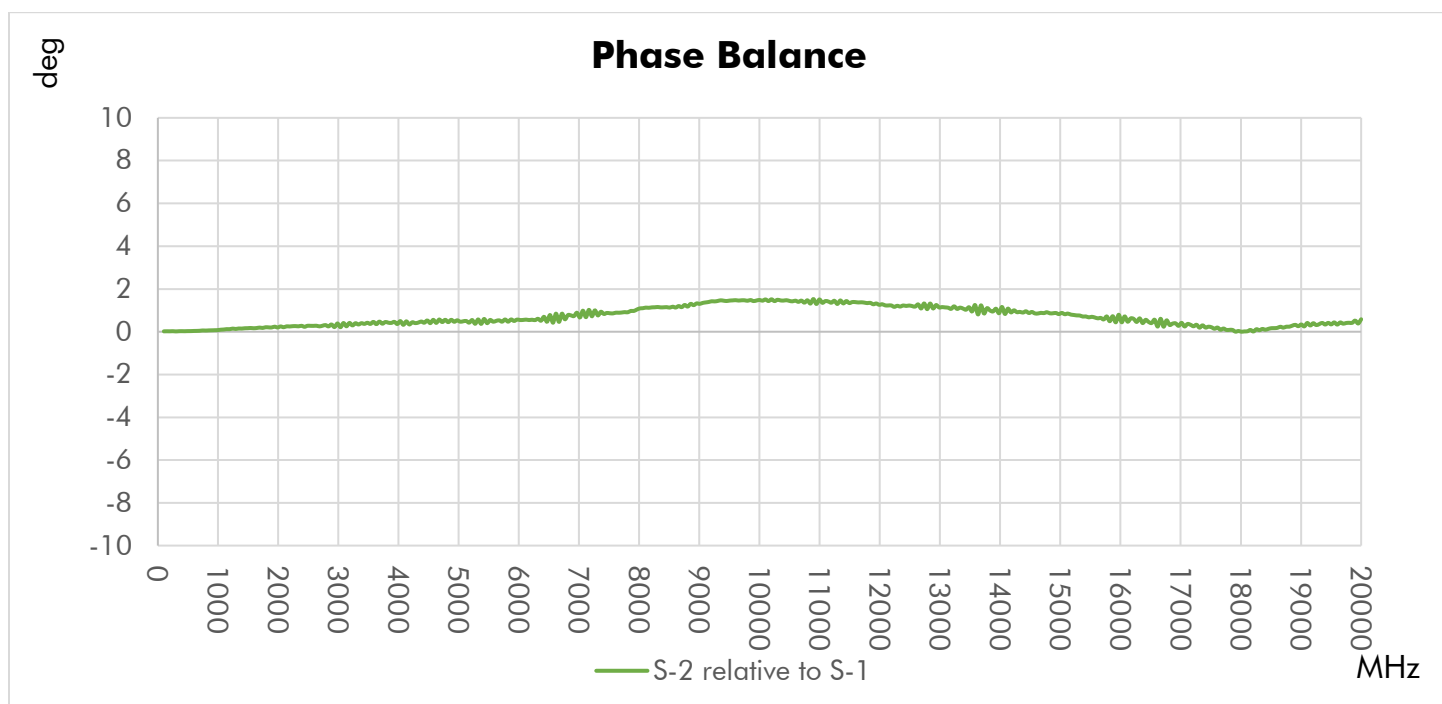
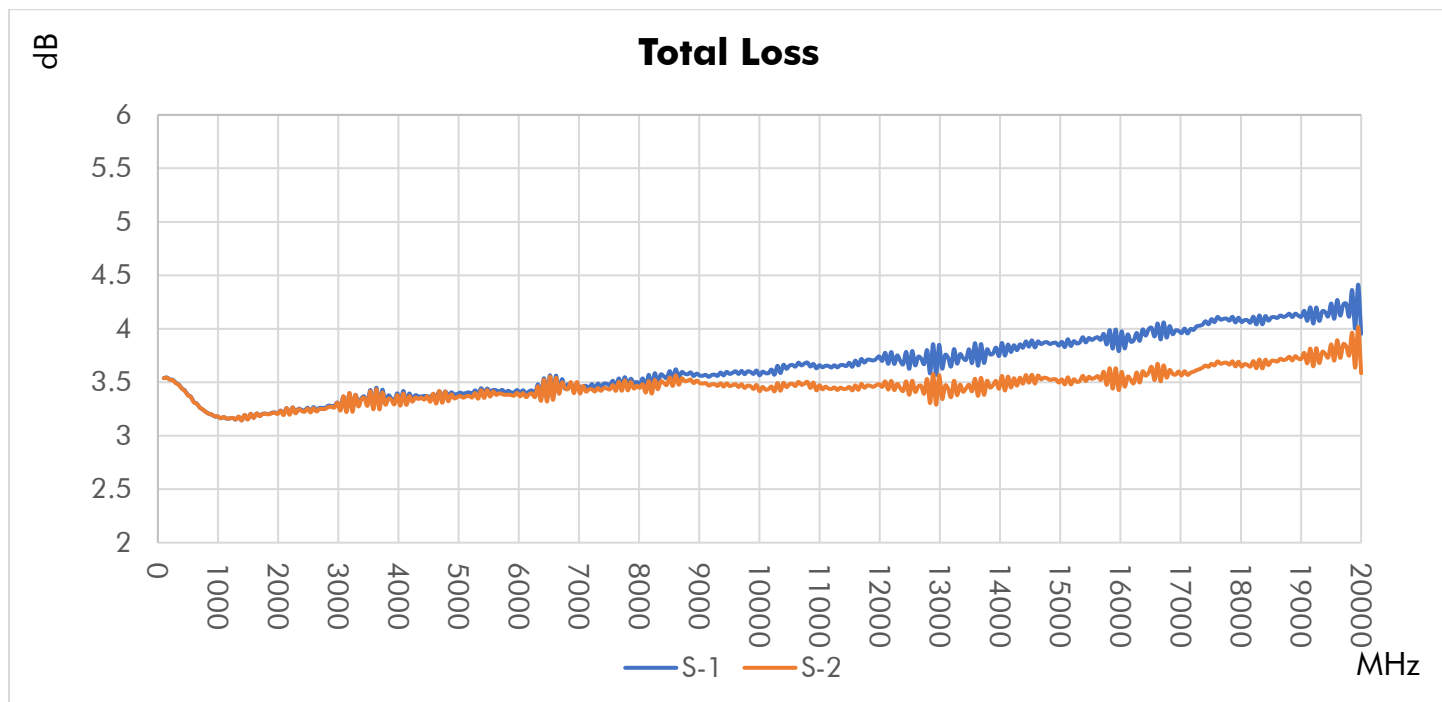
Parameter	Low Band	Mid Band	High Band	Unit
Frequency Range	950-2450	2450-8000	8000-18000	MHz
Impedance	50			Ω
Return Loss (Port S)	17	15	14	dB, min.
Return Loss (Port 1-2)	20	19	16	dB, min.
Insertion Loss above 3.01dB	0.5	0.8	1.4	dB, max.
Isolation	18	18	16	dB, min.
Amplitude Unbalance ($\pm$) ¹	0.2	0.5	0.9	dB, max.
Phase Unbalance ($\pm$) ¹	1	2	3	Degree, max.
Input Power (CW) ²	30			W, max.
Combining Power (CW) ²	0.05			W/port, max.
Internal Dissipation	1			W, max.
DC Current	0.3			A/port, max.

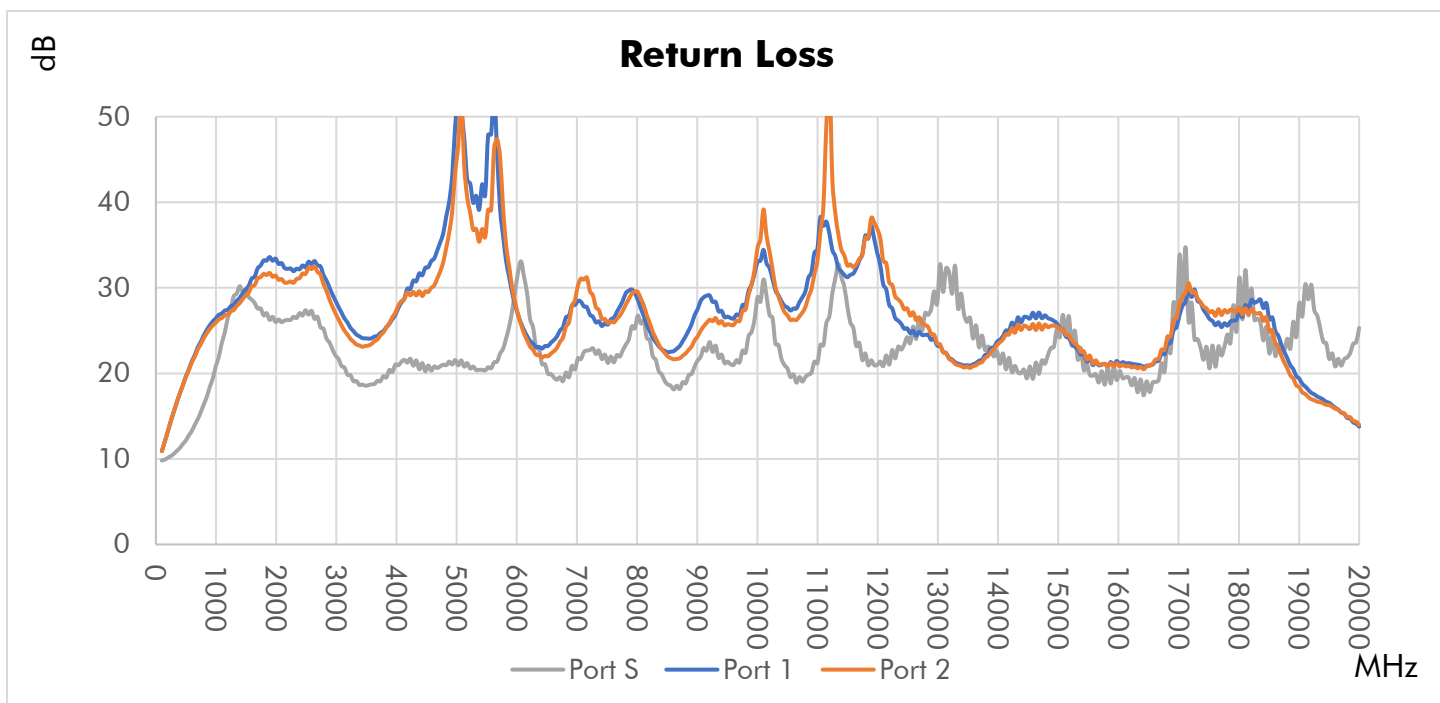
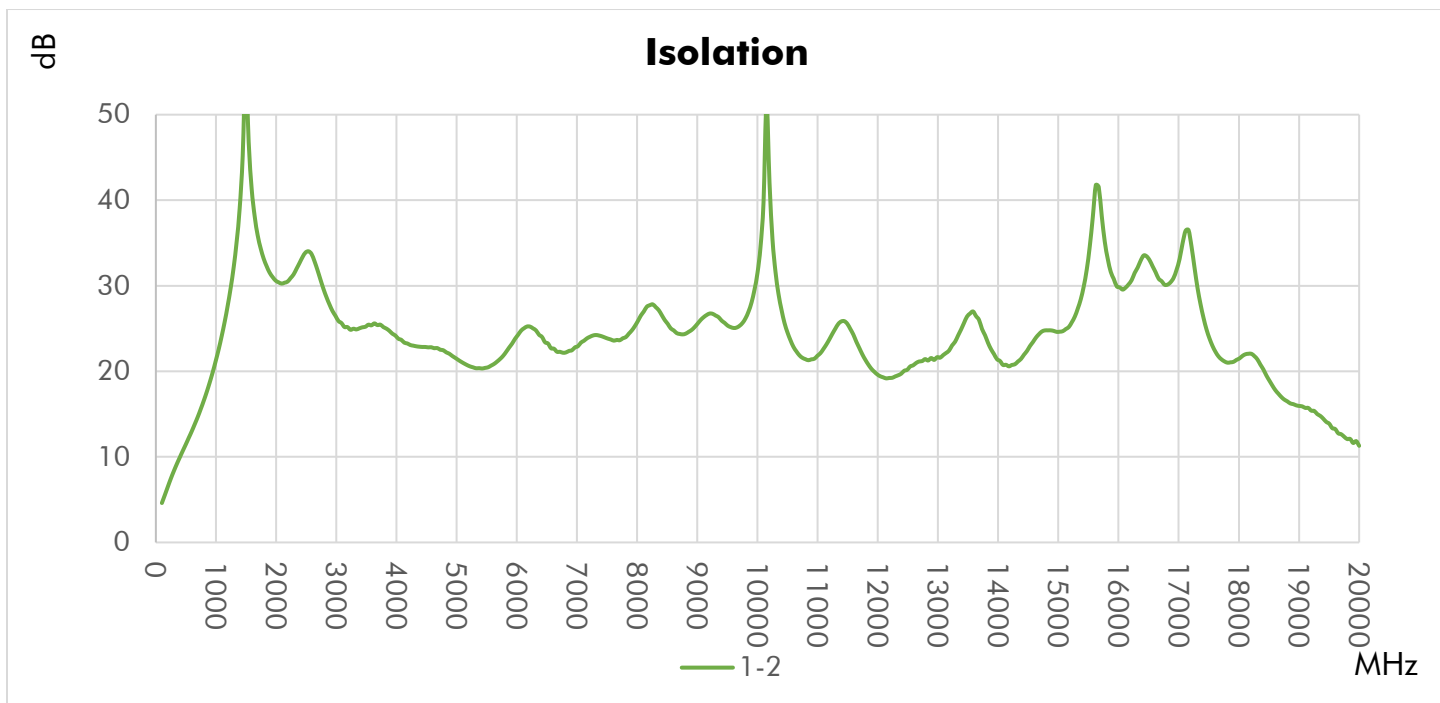
Connector Interface	SMA Female
Operating Temperature ³	-55 to +85 °C
Storage Temperature	-55 to +100 °C
Nominal Weight	74 g (2.6 oz)
Operating Humidity	10-90% (non-condensing)
Operating Environment	Indoor Use Only
HTSUS Code	8548.00.0000
ECCN	EAR99

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

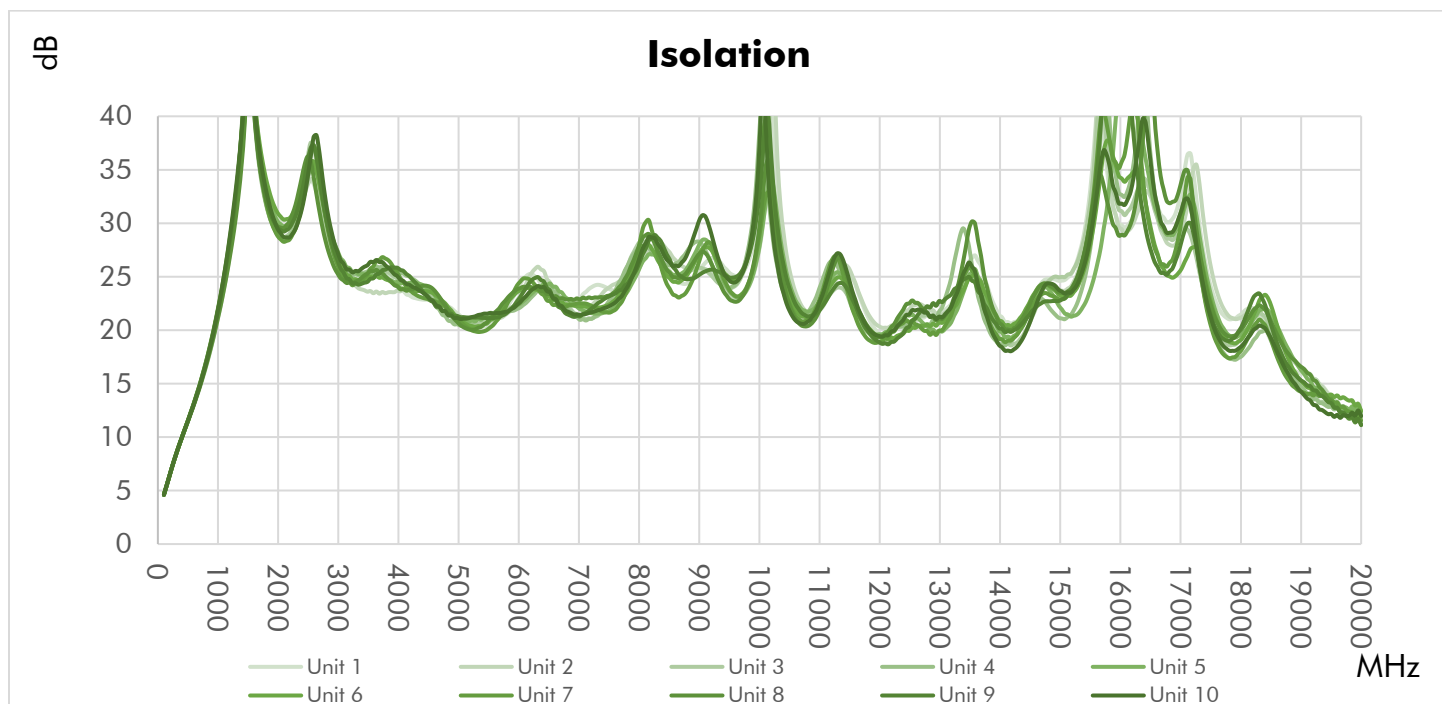
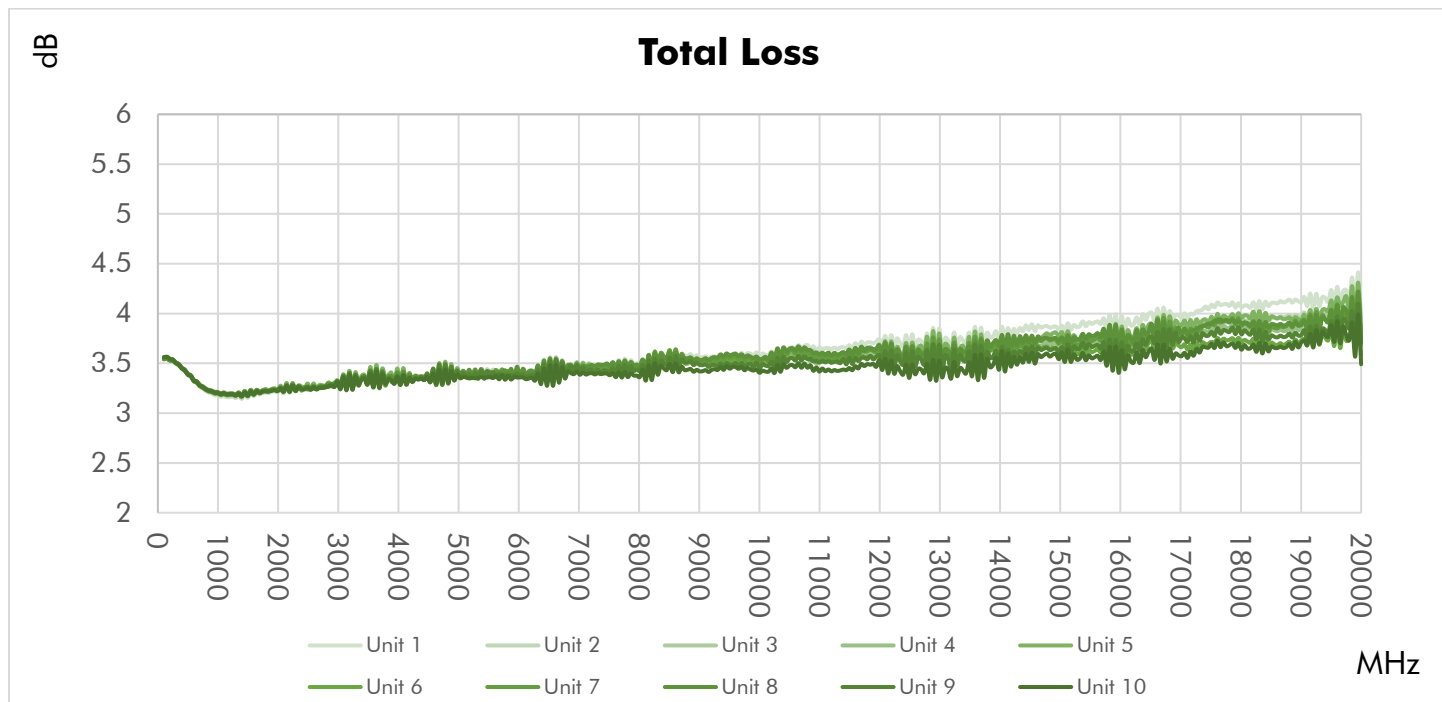
1. With reference to average.
2. All output ports should be terminated in a 50-ohm load with 1.2:1 max VSWR.
3. Electrical specifications are tested at +25 °C.
4. To the best of our knowledge at the time of publication.

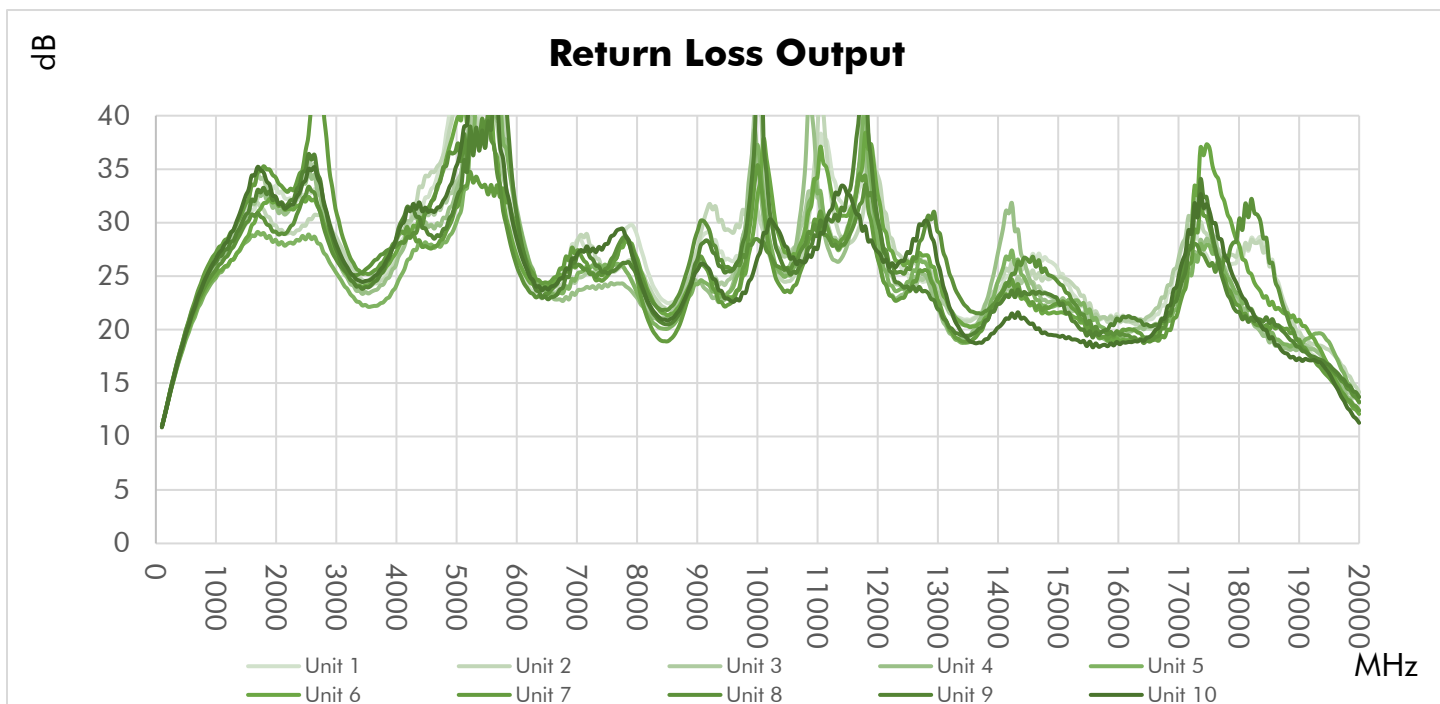
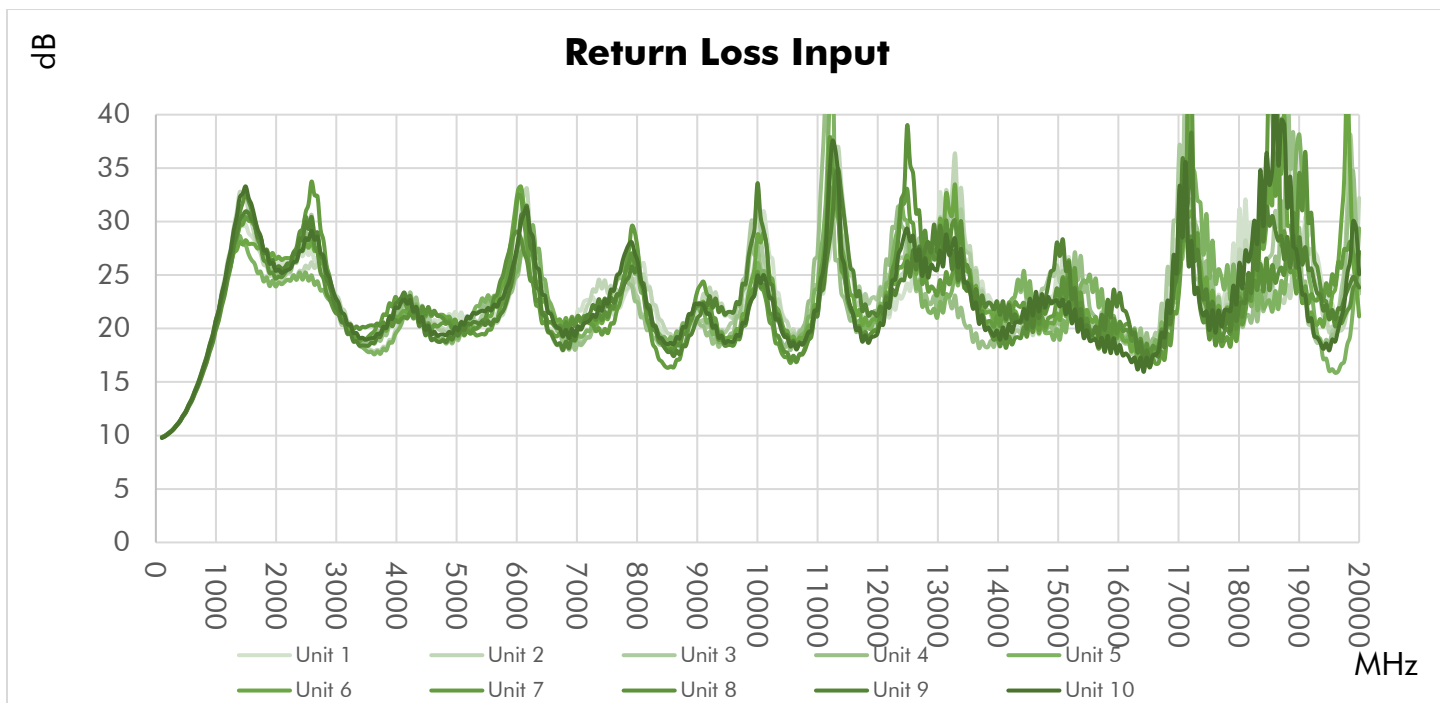
Typical Performance at +25 °C





Repeatability in Production

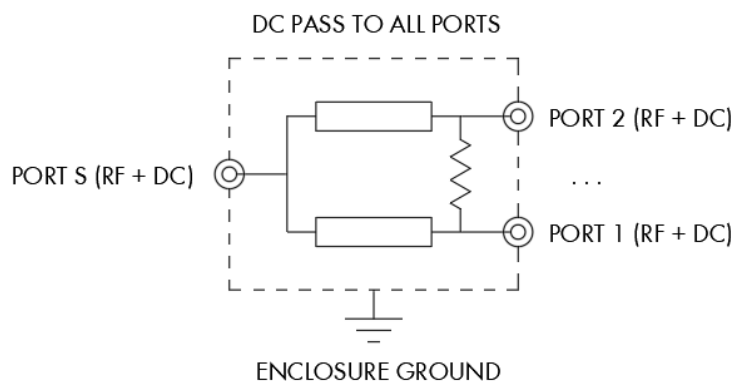




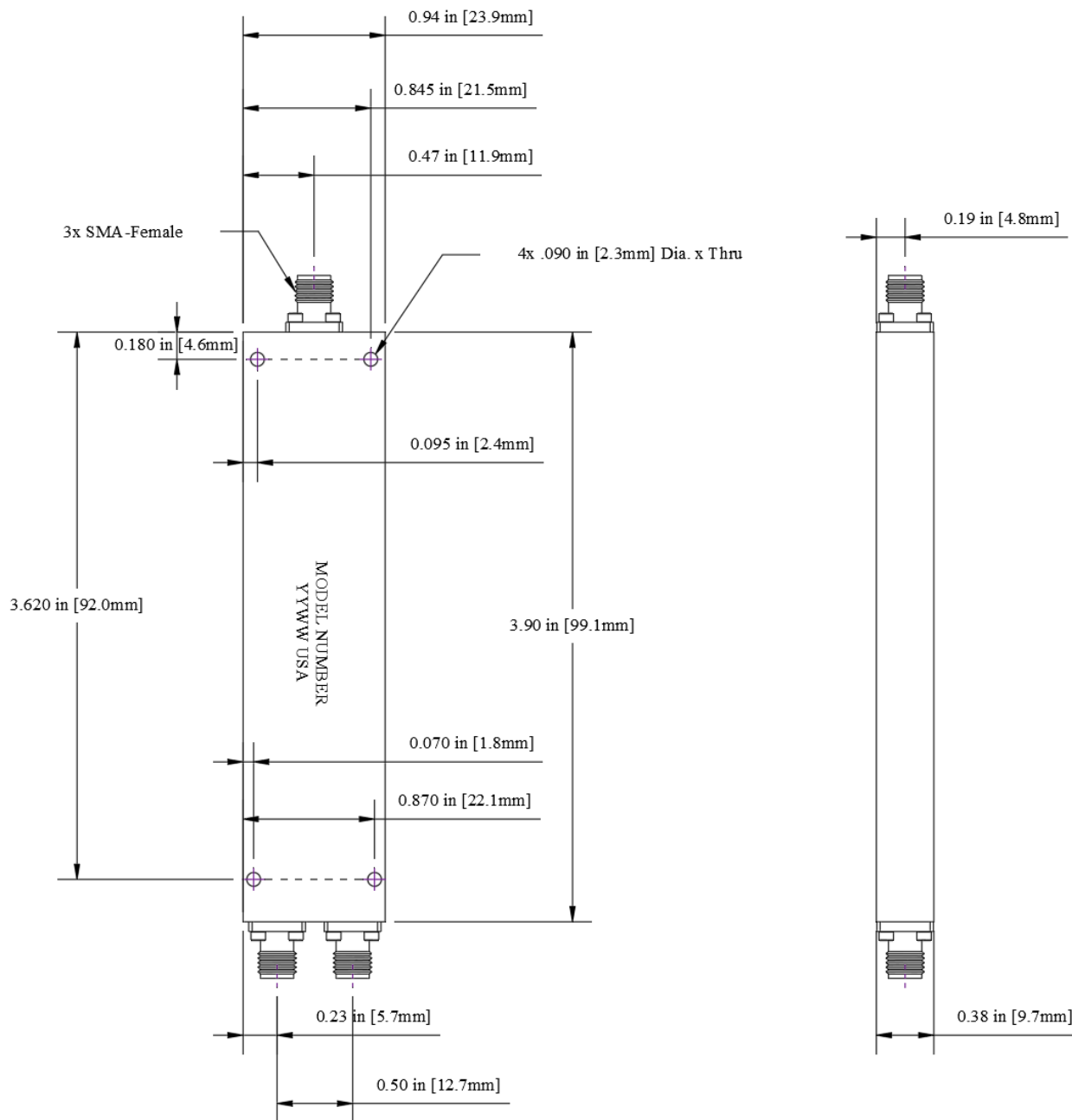
Typical Performance Data

Frequency (MHz)	Return Loss (dB)			Total Loss (dB)		Isolation (dB)
	Port S	Port 1	Port 2	S-1	S-2	
100	9.80	10.91	10.91	3.54	3.54	4.61
299	10.60	15.53	15.53	3.50	3.49	8.35
498	12.15	19.63	19.56	3.38	3.38	11.46
697	14.66	23.05	22.81	3.26	3.26	14.68
896	18.41	25.61	25.18	3.20	3.20	18.72
1095	23.55	26.99	26.46	3.17	3.17	24.15
1294	29.01	27.99	27.40	3.15	3.15	32.19
1493	29.73	29.81	29.10	3.15	3.15	55.74
1692	27.58	32.27	31.09	3.19	3.18	35.90
1891	26.25	33.59	31.74	3.21	3.21	31.53
2090	25.98	32.89	31.01	3.20	3.19	30.26
3085	20.87	27.11	25.62	3.36	3.37	25.64
4080	21.35	28.26	28.43	3.42	3.40	23.68
5075	21.51	50.70	52.33	3.39	3.36	21.11
6070	33.09	25.85	25.70	3.43	3.40	24.75
7065	21.67	28.37	31.07	3.46	3.47	23.36
8060	25.82	27.58	28.72	3.54	3.48	26.51
9055	21.93	28.46	24.97	3.56	3.49	26.00
10050	28.38	33.17	35.75	3.60	3.46	34.55
11045	23.34	38.24	36.50	3.64	3.43	22.12
12040	21.39	32.68	35.79	3.70	3.46	19.42
13035	32.76	23.23	23.38	3.63	3.34	21.59
14030	21.11	23.93	23.64	3.87	3.56	21.21
15025	24.22	25.22	25.16	3.88	3.53	24.64
16020	20.28	21.02	20.82	3.98	3.60	29.81
17015	33.88	26.83	28.15	3.96	3.56	33.13
18010	31.22	27.24	27.70	4.06	3.65	21.51
19005	28.24	19.37	18.38	4.11	3.72	15.95
20000	25.31	13.77	13.99	3.95	3.58	11.29

Simplified Electrical Schematic



Outline Dimensions



Outline drawing: OL-2181

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

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

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