

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

WM2PD-2-26.5-S



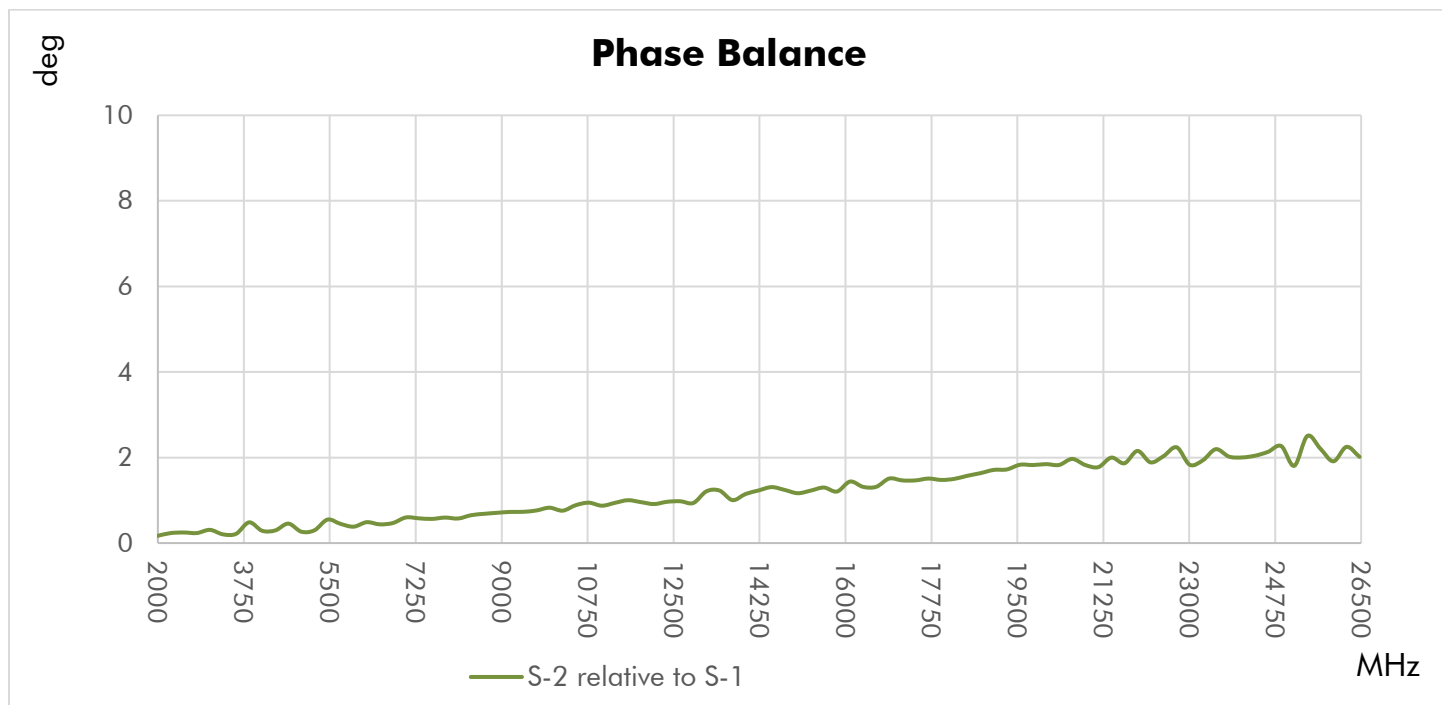
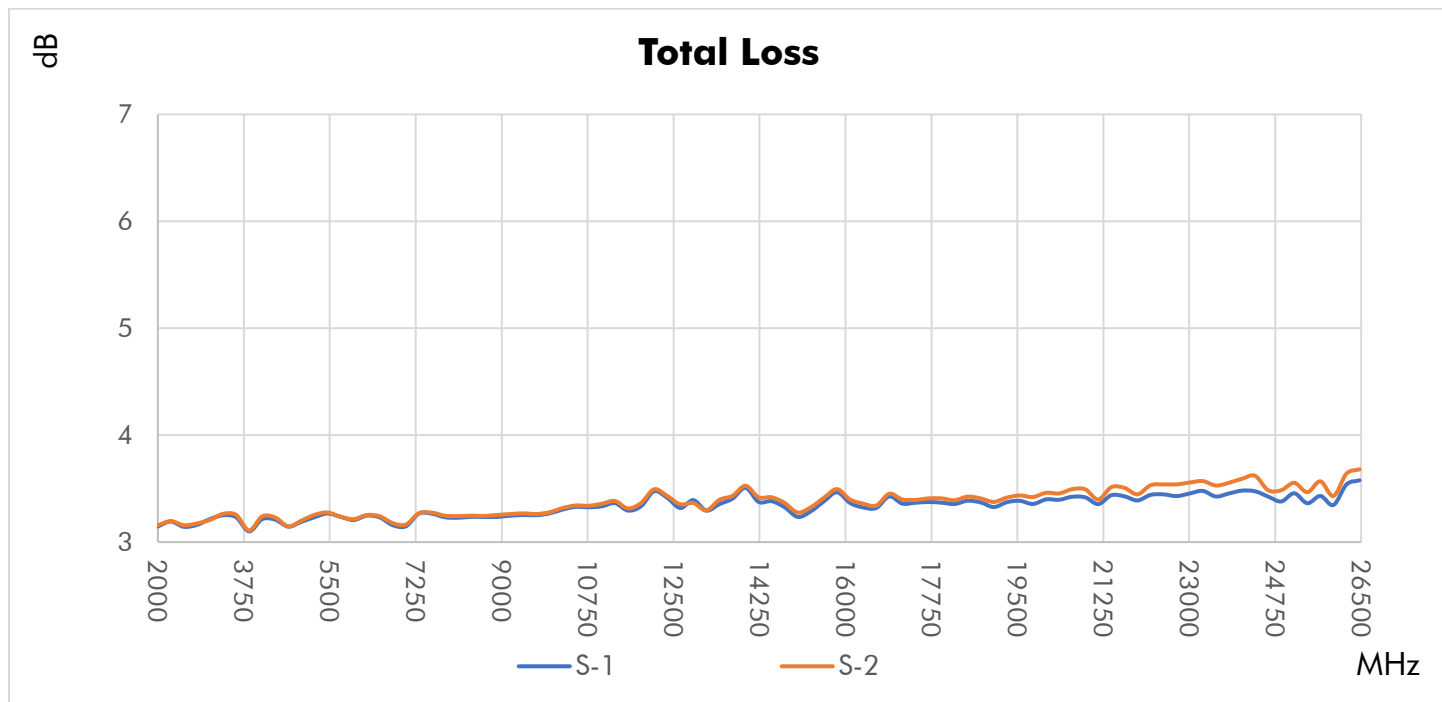
Parameter	Low Band	Mid Band	High Band	Unit
Frequency Range	2000-8000	8000-18000	18000-26500	MHz
Impedance	50			Ω
Return Loss (Port S)	16	13	12	dB, min.
Return Loss (Port 1-2)	17	16	15	dB, min.
Insertion Loss above 3.01dB	0.6	0.9	1.2	dB, max.
Isolation	16	14	14	dB, min.
Amplitude Unbalance ($\pm$) ¹	0.2	0.3	0.45	dB, max.
Phase Unbalance ($\pm$) ¹	2	4	5	Degree, max.
Input Power (CW) ²	10			W, max.
Combining Power (CW) ²	0.03			W/port, max.
Internal Dissipation	0.3			W, max.
DC Current	0.3			A/port, max.

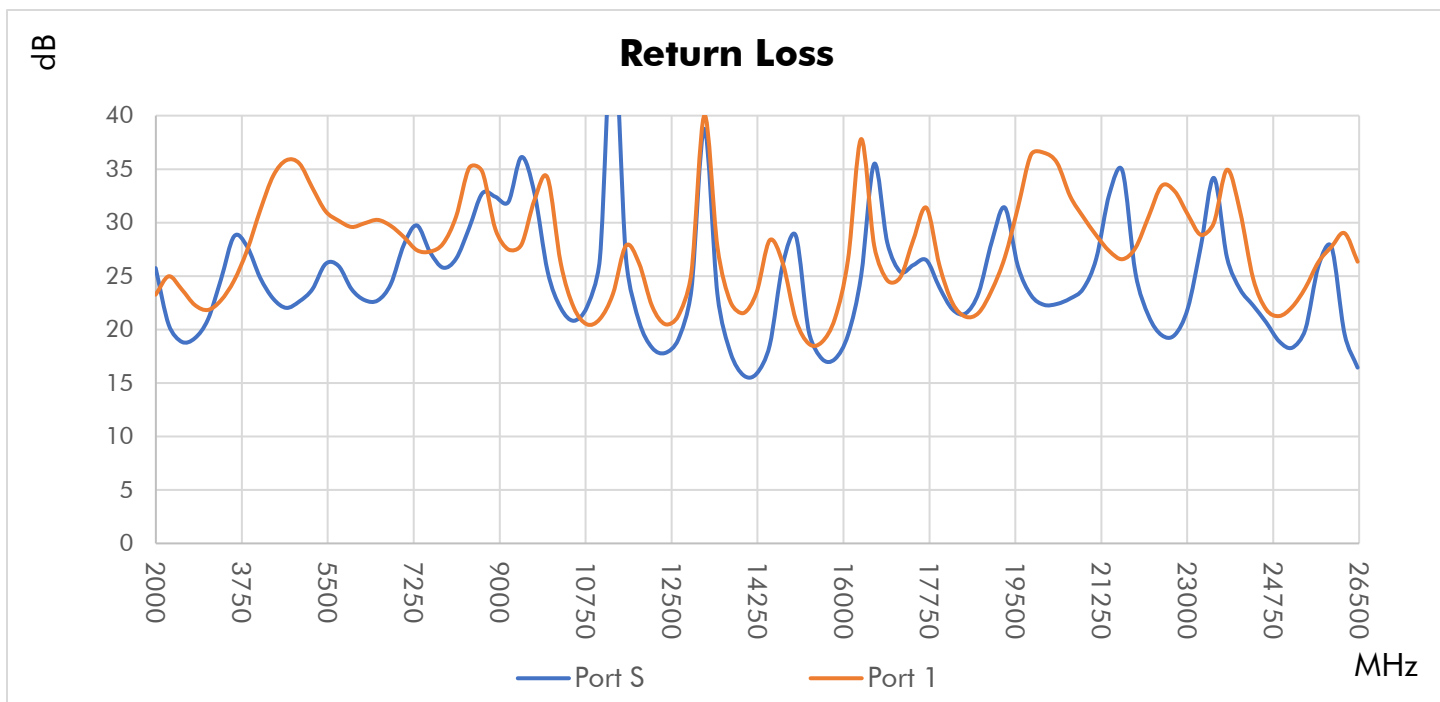
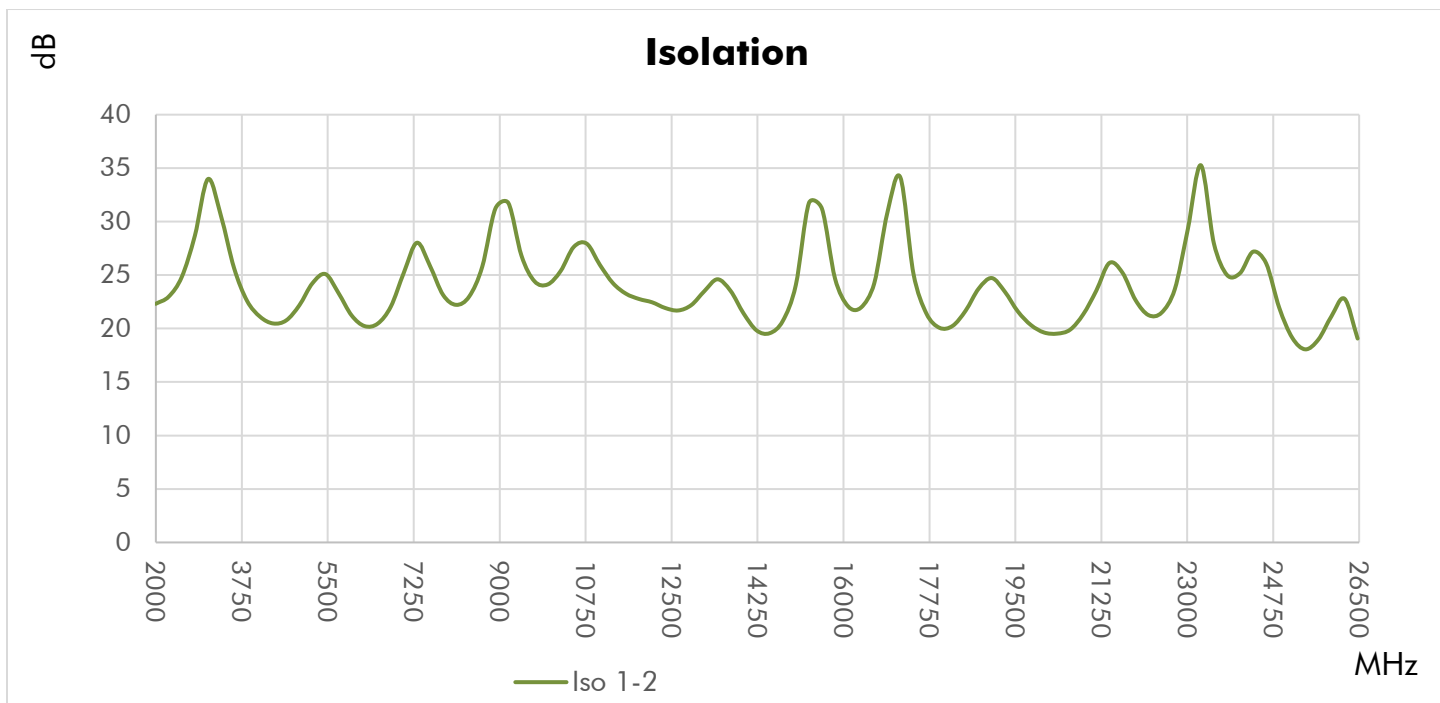
Connector Interface	SMA Female
Operating Temperature ³	-55 to +85 °C
Storage Temperature	-55 to +100 °C
Nominal Weight	47.6 g (1.68 oz)
Operating Humidity	10-90% (non-condensing)
Operating Environment	Indoor Use Only
HTSUS Code	8548.00.0000
ECCN	EAR99

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

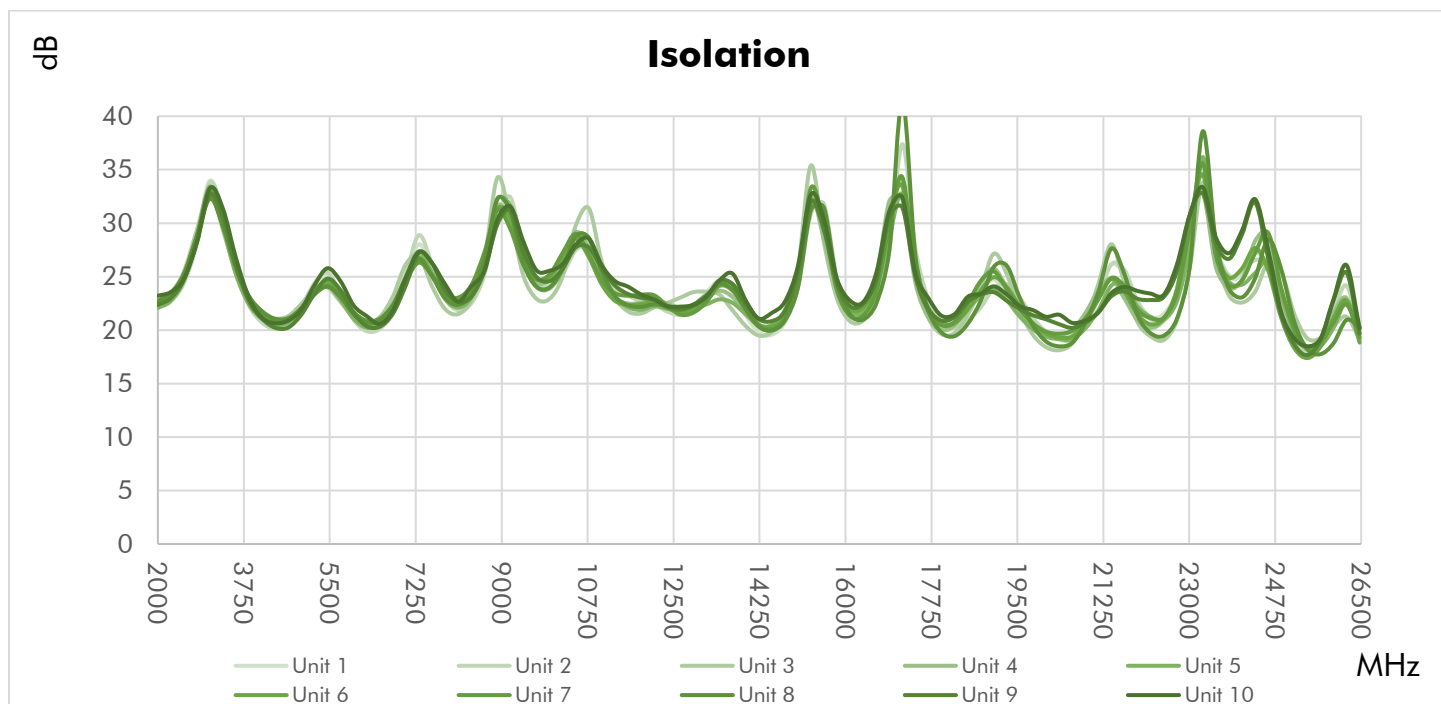
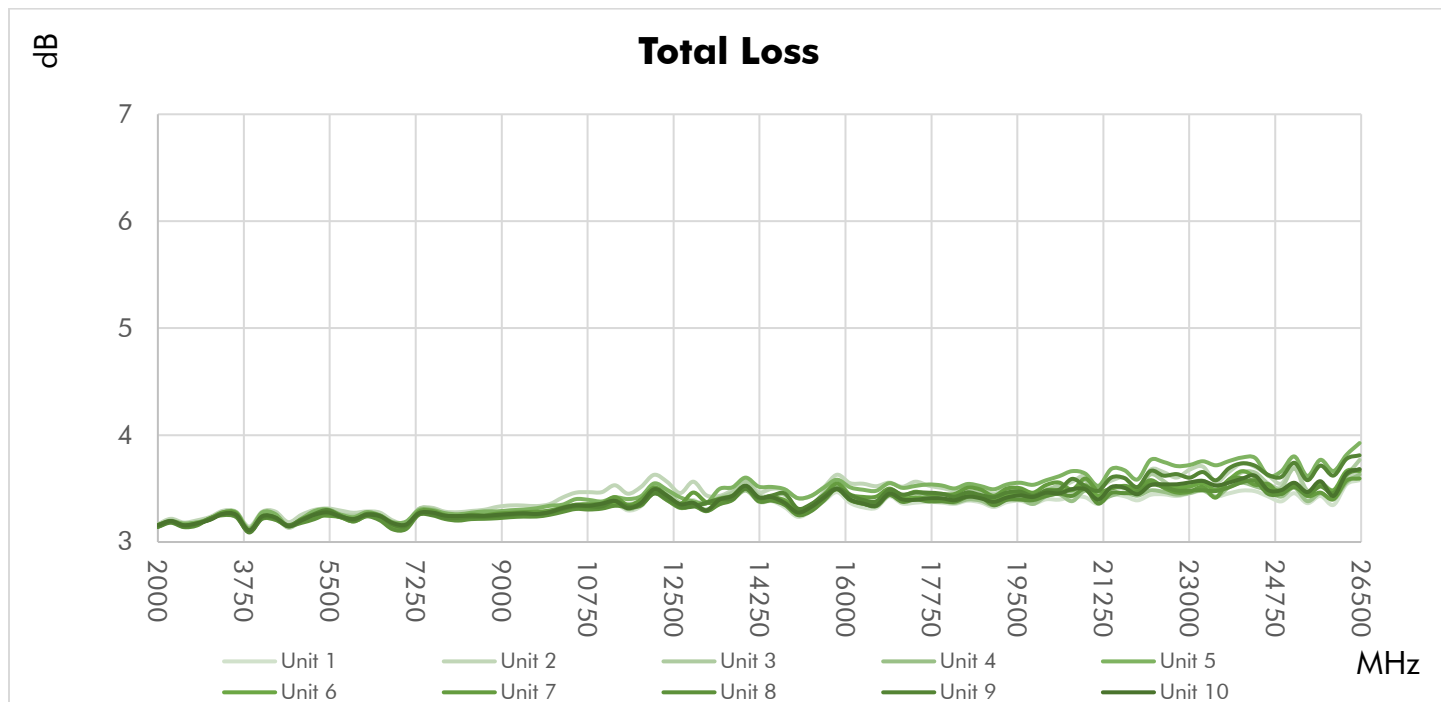
1. With reference to average.
2. All output ports should be terminated in a 50-ohm load with 1.2:1 max VSWR.
3. Electrical specifications are tested at +25 °C.
4. To the best of our knowledge at the time of publication.

Typical Performance at +25 °C





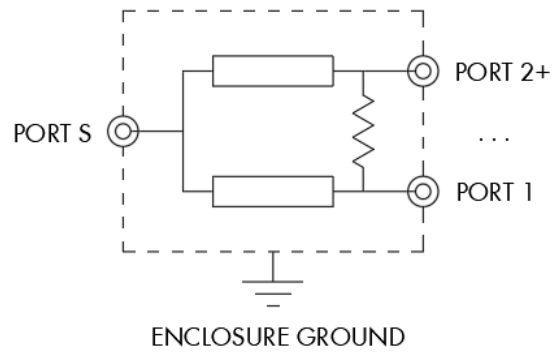
Repeatability in Production



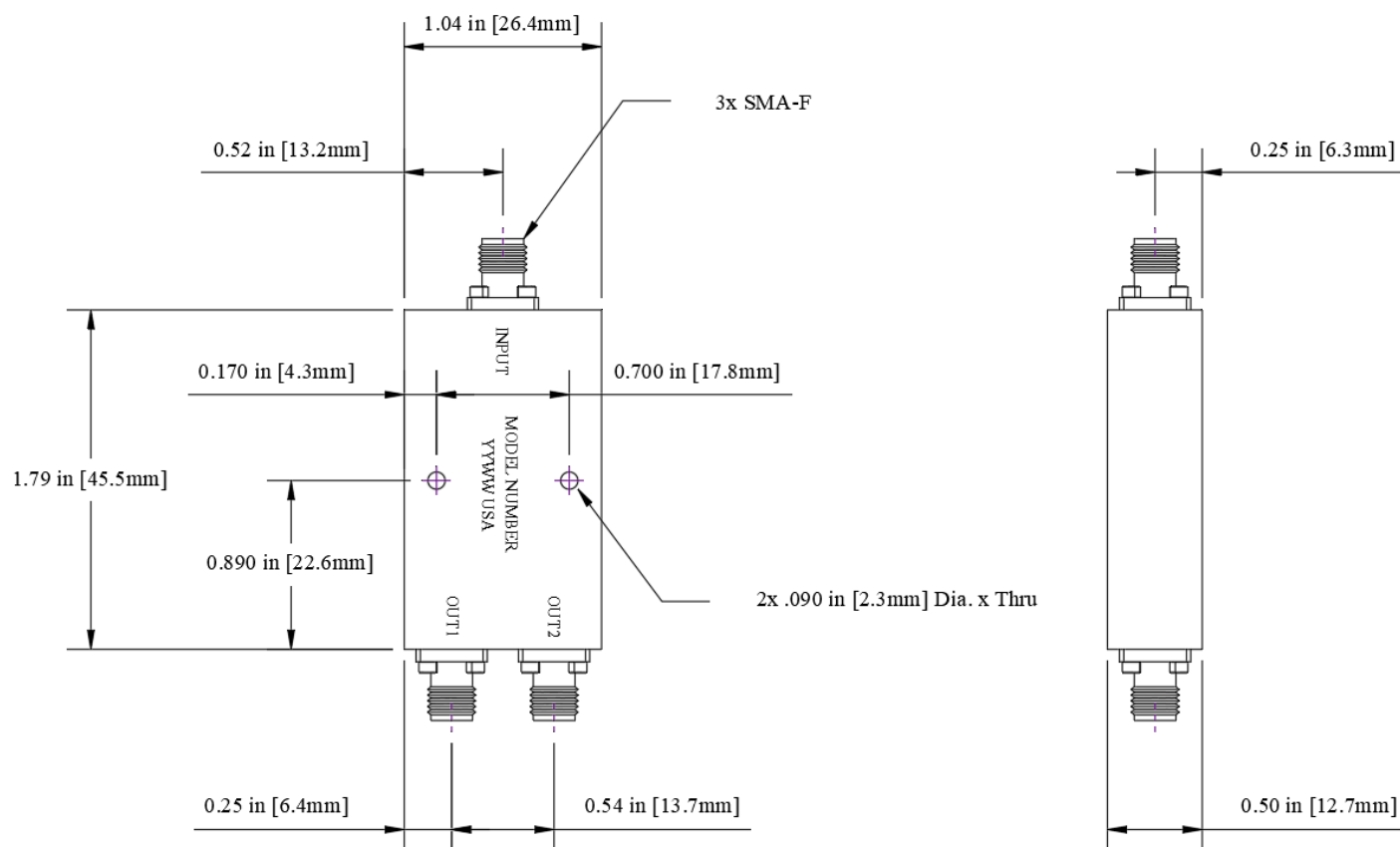
Typical Performance Data

Frequency (MHz)	Return Loss (dB)			Total Loss (dB)		Isolation (dB)
	Port S	Port 1	Port 2	S-1	S-2	
2000	27.45	23.51	23.65	3.17	3.17	21.45
2500	19.26	25.40	25.70	3.23	3.22	23.38
3000	19.86	22.62	22.26	3.07	3.06	34.78
3500	25.26	22.99	21.93	3.14	3.15	25.20
4000	23.89	26.02	24.53	3.19	3.20	20.85
4500	21.99	31.31	30.12	3.16	3.16	20.84
5000	23.38	34.21	34.99	3.17	3.18	22.64
5500	25.68	31.78	36.25	3.15	3.17	22.88
6000	24.54	30.49	32.27	3.25	3.26	21.64
6500	25.17	28.47	27.89	3.19	3.19	21.39
7000	26.20	27.25	25.67	3.20	3.23	23.89
7500	25.05	28.00	26.02	3.26	3.28	26.35
8000	25.06	31.28	28.89	3.25	3.28	23.48
8500	33.46	33.98	30.90	3.22	3.25	23.81
9000	32.19	27.34	26.23	3.24	3.28	31.25
9500	35.76	29.58	28.99	3.24	3.27	27.10
10500	21.12	22.16	21.81	3.31	3.35	26.38
11000	25.46	20.97	21.41	3.28	3.32	27.33
11500	26.80	25.75	26.20	3.26	3.31	22.10
12000	18.94	23.68	23.32	3.34	3.39	21.14
12500	18.43	21.19	21.28	3.49	3.54	22.37
13000	27.60	27.08	26.80	3.19	3.24	22.99
13500	21.71	27.54	27.84	3.41	3.47	23.35
14000	16.60	23.31	24.54	3.38	3.44	21.38
14500	18.74	30.04	33.17	3.36	3.43	20.23
15000	32.46	23.78	24.91	3.32	3.39	23.84
15500	17.49	19.93	20.97	3.34	3.43	35.06
16000	17.01	24.56	25.02	3.45	3.53	22.07
16500	25.97	39.85	39.59	3.37	3.45	21.95
17000	28.07	26.13	28.76	3.31	3.41	37.01
17500	24.31	29.13	30.95	3.31	3.43	23.06
18000	22.78	30.59	33.68	3.31	3.43	19.19
18500	19.92	23.34	25.25	3.43	3.56	22.62
19000	25.76	23.92	24.11	3.32	3.46	26.25
19500	29.03	27.78	26.05	3.32	3.47	20.56
20000	19.62	35.43	30.33	3.40	3.58	19.69
20500	22.42	29.77	24.96	3.42	3.63	20.63
21000	29.64	24.90	22.44	3.26	3.41	20.85
21500	27.30	23.05	22.31	3.36	3.53	24.92
22000	26.38	26.98	28.84	3.34	3.52	24.84
22500	19.54	41.60	34.56	3.39	3.56	20.67
23000	20.15	29.24	27.14	3.43	3.63	23.84
23500	26.19	26.37	25.96	3.51	3.75	36.44
24000	24.08	30.07	26.70	3.43	3.69	22.84
24500	18.04	21.35	19.62	3.52	3.80	23.45
25000	21.19	20.85	19.63	3.28	3.53	25.88
25500	28.98	24.75	23.50	3.32	3.55	19.21
26000	24.91	32.24	30.90	3.30	3.60	19.32
26500	15.12	27.02	24.68	3.36	3.61	20.14

Simplified Electrical Schematic



Outline Dimensions



Outline drawing: OL-2262

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

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

The information contained in this document is accurate to the best of our knowledge and representative of the product described herein at the date of publication. It may be necessary to make modifications to the product and/or documentation of the product. Werbel Microwave LLC reserves the right to make such changes as required without notice. Unless otherwise stated, all specifications and dimensions are nominal. Werbel Microwave LLC does not make any representation or warranty regarding the suitability of the product described herein for any particular purpose or application, and Werbel Microwave LLC does not assume any liability arising out of the use of any part of documentation. This document gives only a description of the product(s) and shall not form part of any contract. Please contact a Werbel Microwave LLC Applications Engineer for the most current specification drawing.

Reliability testing was performed as an internal requalification of the product to substantiate the published specifications, which were previously arrived at by calculation and/or similarity to existing products. The results of these tests are provided as a courtesy and shall not form part of a contract or warranty. While reliability tests may depict the product being tested beyond the published specification ratings for the purpose of stress testing the product, this does not imply that the product should be operating above the rated limits for any length of time. Specifications related to reliability (e.g., performance over temperature, power handling, DC current, HI-POT) are "designed to meet" and are not individually tested in production of commercially available products. Please contact a Werbel Microwave LLC Applications Engineer if specific reliability testing is needed on a particular product.