

Power Divider, 2-way, 6-26.5GHz, SMA Female

WM2PD-6-26.5-S



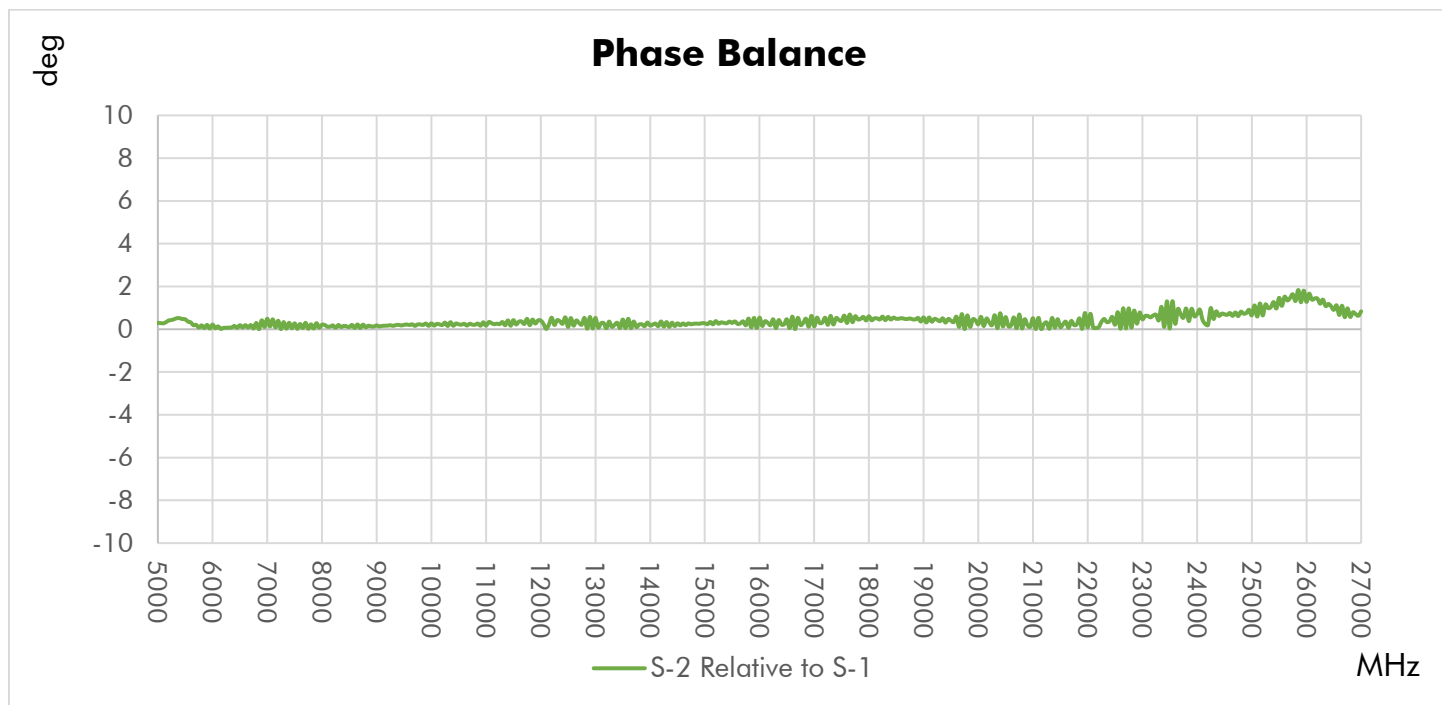
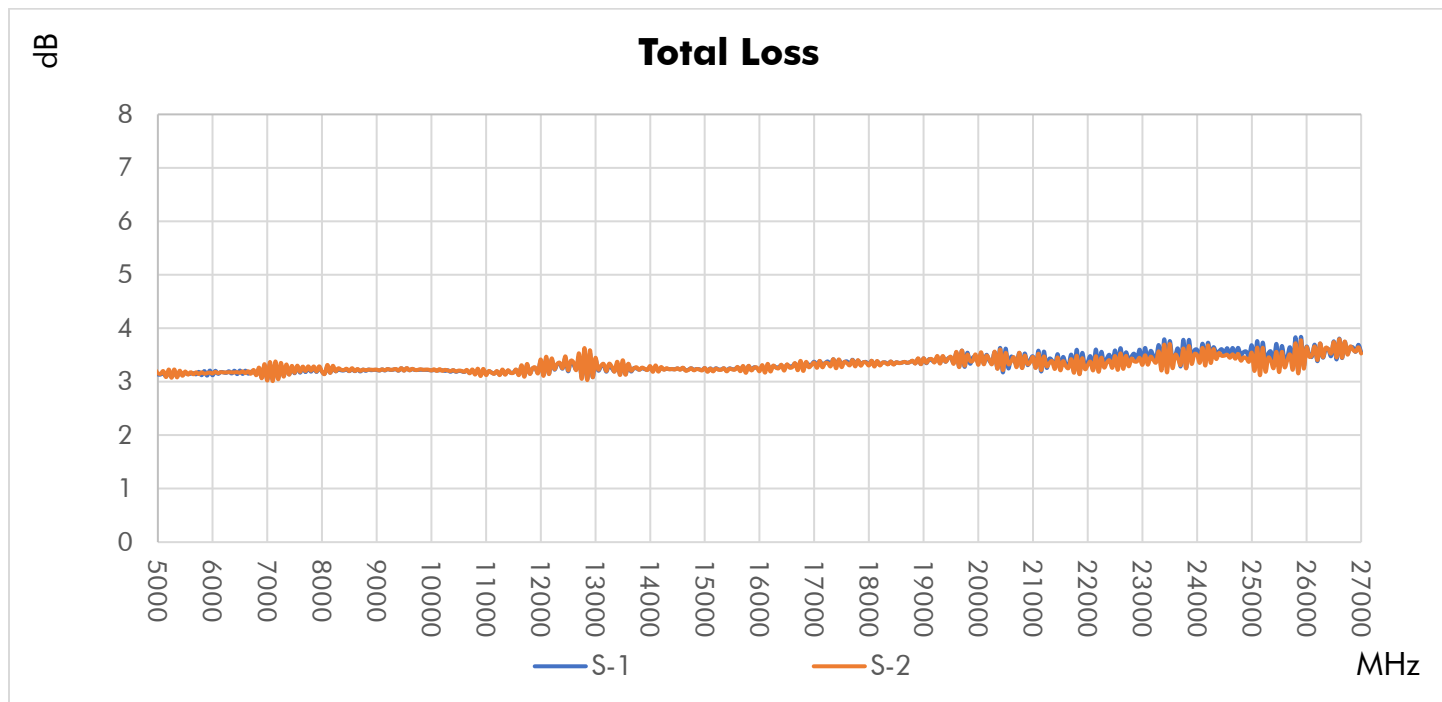
Parameter	Low Band	Mid Band	High Band	Unit
Frequency Range	6000-12400	12400-18000	18000-26500	MHz
Impedance	50			Ω
Return Loss (Port S)	15	15	14	dB, min.
Return Loss (Port 1-2)	15	15	14	dB, min.
Insertion Loss above 3.01dB	0.8	0.8	1.2	dB, max.
Isolation	17	17	17	dB, min.
Amplitude Unbalance ($\pm$) ¹	0.3	0.3	0.5	dB, max.
Phase Unbalance ($\pm$) ¹	2	3	6	Degree, max.
Input Power (CW) ²	20			W, max.
Combining Power (CW) ²	0.03			W/port, max.
Internal Dissipation	0.3			W, max.
DC Current	0.27			A/port, max.

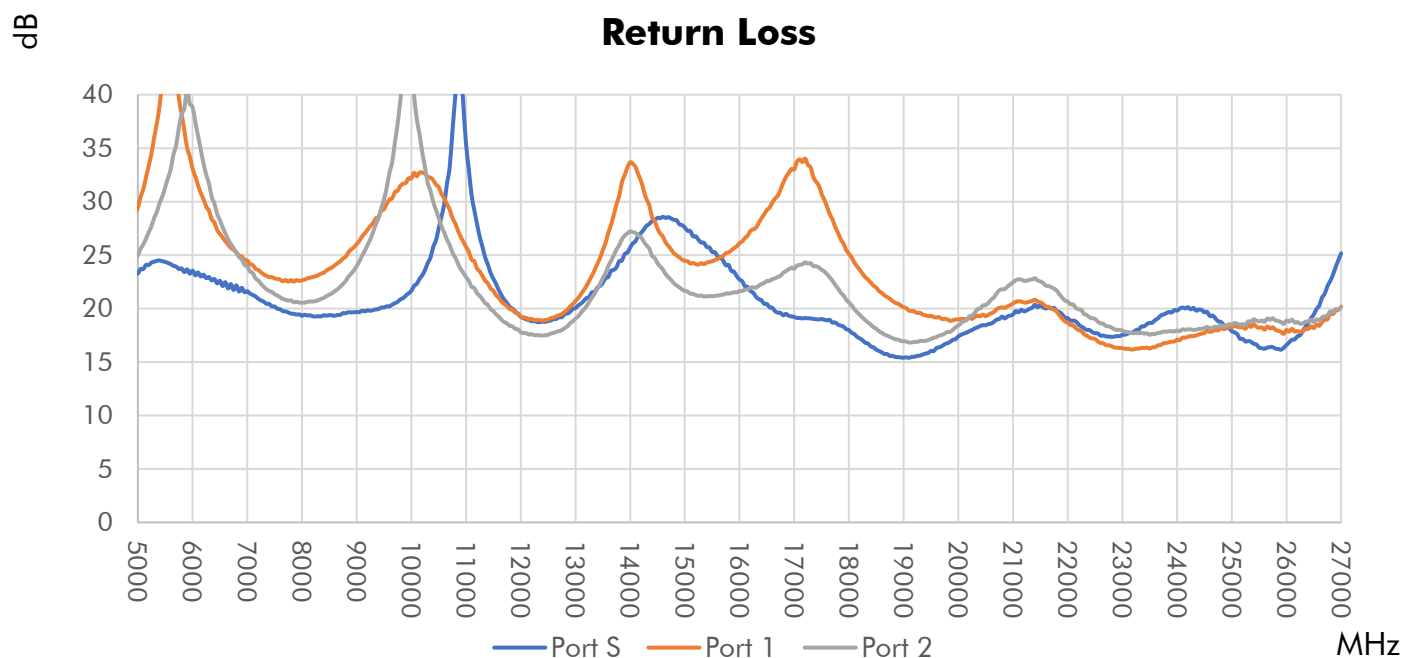
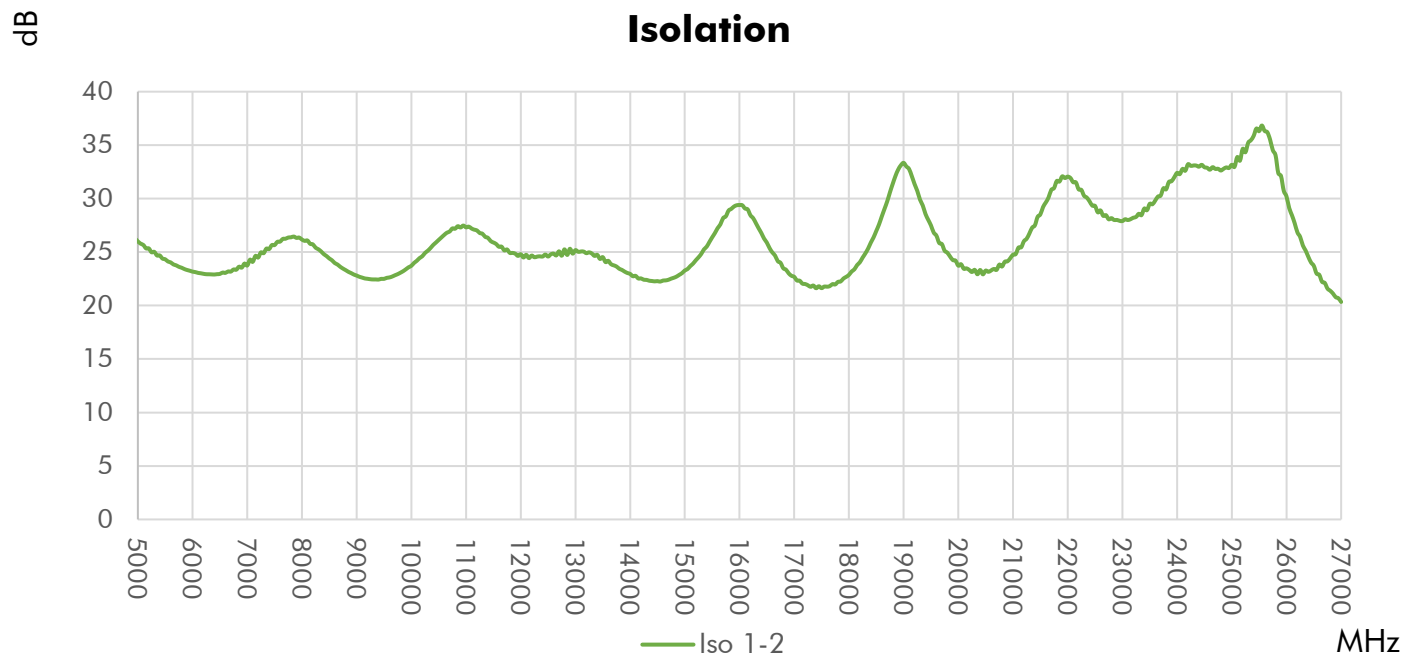
Connector Interface	SMA Female
Operating Temperature ³	-55 to +85 °C
Storage Temperature	-55 to +100 °C
Nominal Weight	34.7 g (1.22 oz)
Operating Humidity	10-90% (non-condensing)
Operating Environment	Indoor Use Only
HTSUS Code	8548.00.0000
ECCN	EAR99

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

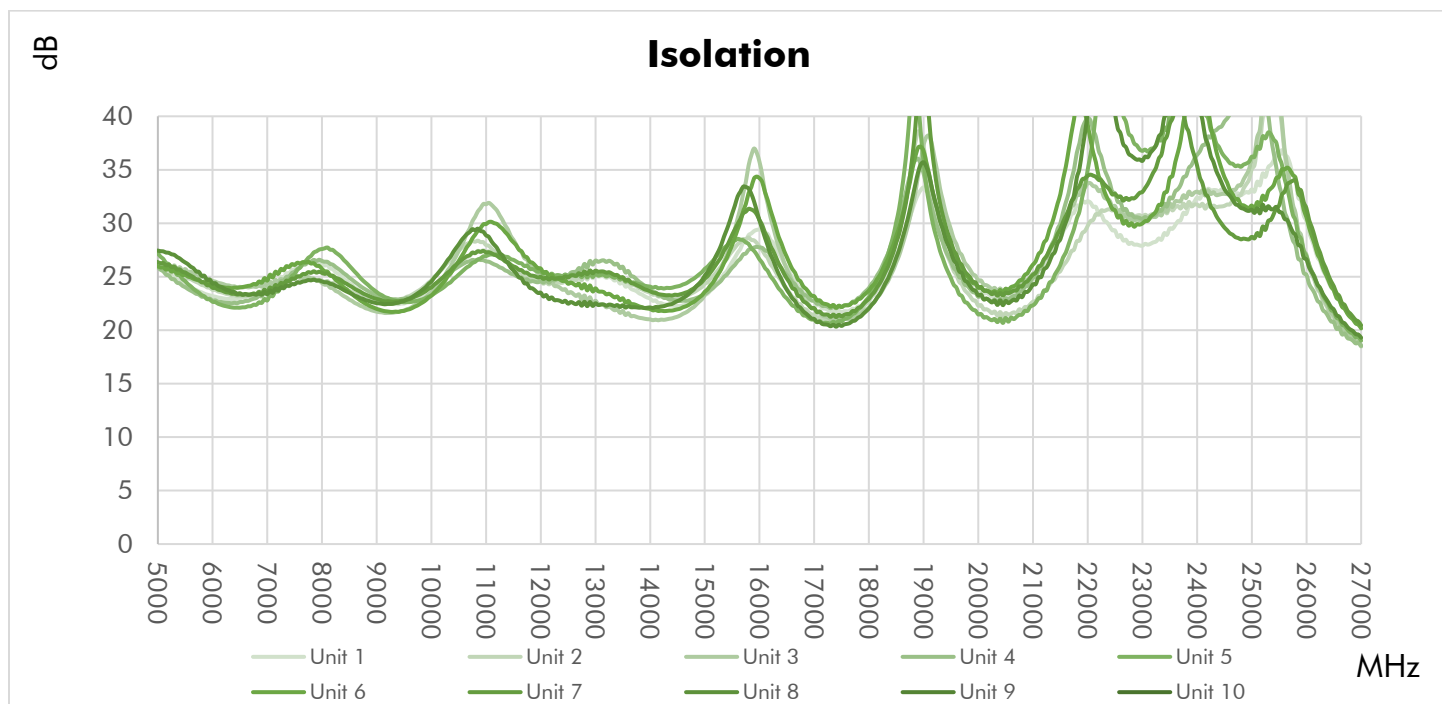
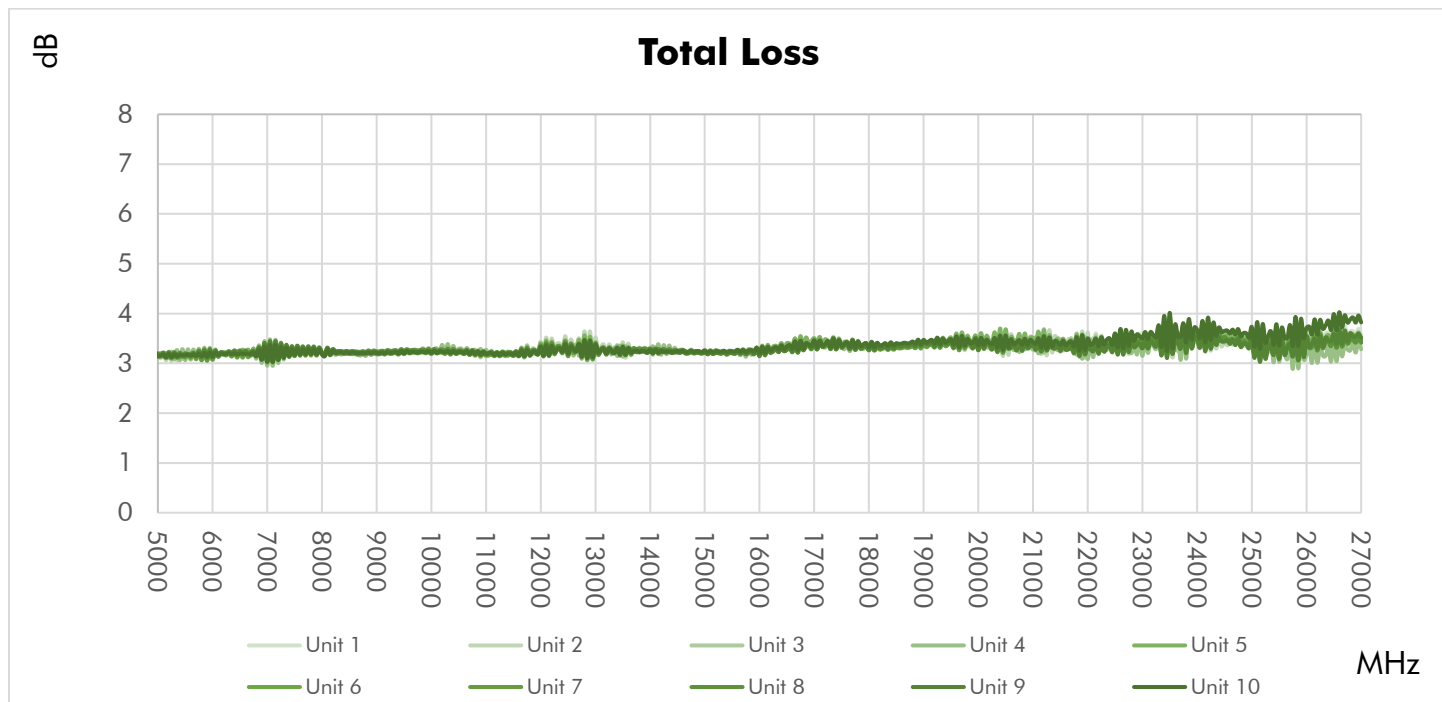
1. With reference to average.
2. All output ports should be terminated in a 50-ohm load with 1.2:1 max VSWR.
3. Electrical specifications are tested at +25 °C.
4. To the best of our knowledge at the time of publication.

Typical Performance at +25 °C





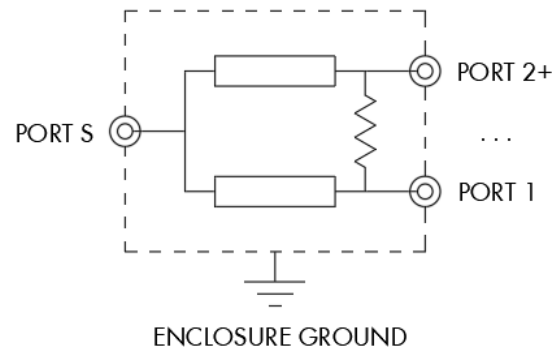
Repeatability in Production



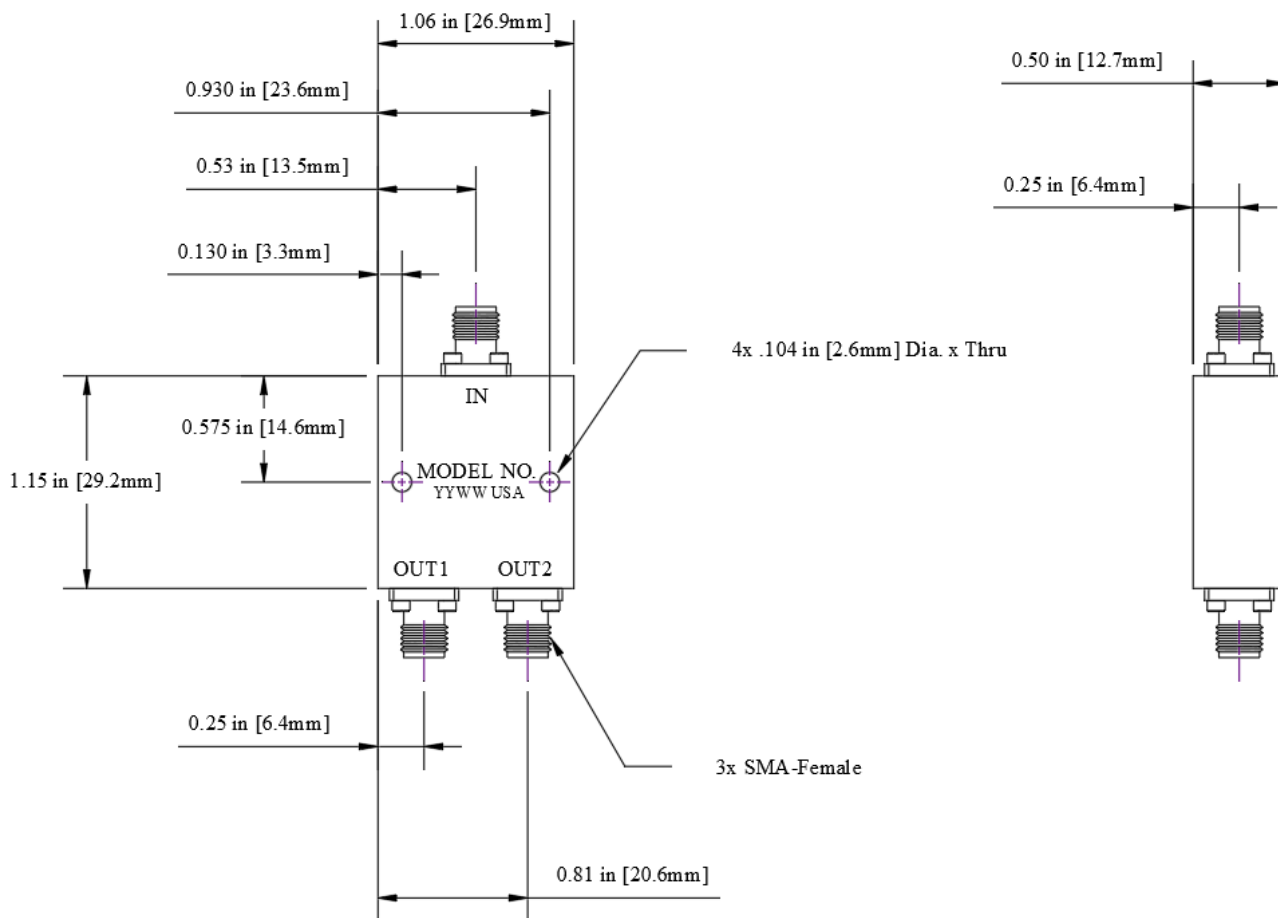
Typical Performance Data

Frequency (MHz)	Return Loss (dB)			Total Loss (dB)		Isolation (dB)
	Port S	Port 1	Port 2	S-1	S-2	
950	9.93	12.31	12.21	3.51	3.53	5.95
1000	9.95	12.51	12.41	3.54	3.56	6.19
1500	10.22	14.29	14.19	3.43	3.45	8.55
2000	10.69	15.32	15.42	3.50	3.51	11.47
2500	11.53	16.05	16.38	3.39	3.40	14.72
3000	13.14	17.27	17.64	3.10	3.13	18.54
3500	15.07	18.57	18.61	3.29	3.32	23.65
4000	17.69	20.67	19.90	3.08	3.10	27.66
4500	20.78	24.15	21.99	3.14	3.18	27.80
5000	23.28	29.41	24.98	3.14	3.16	26.00
5500	24.37	42.52	31.35	3.16	3.19	24.33
6000	23.55	33.08	38.84	3.12	3.15	23.17
6500	22.60	26.99	28.28	3.21	3.17	22.96
7000	21.63	24.49	23.97	3.04	3.02	23.74
7500	20.19	22.83	21.34	3.16	3.17	25.66
8000	19.33	22.64	20.54	3.19	3.19	26.17
8500	19.38	23.72	21.30	3.20	3.20	24.40
9000	19.68	26.02	23.97	3.22	3.23	22.80
9500	20.10	29.29	30.20	3.21	3.21	22.50
10000	21.65	32.18	42.33	3.21	3.21	23.72
11000	35.39	25.76	22.93	3.15	3.12	27.31
12000	19.23	19.26	17.79	3.39	3.42	24.80
13000	20.04	20.70	19.05	3.42	3.45	25.19
14000	25.70	33.68	27.21	3.27	3.29	22.96
15000	27.58	24.46	21.66	3.25	3.26	23.28
16000	22.72	26.11	21.62	3.23	3.20	29.40
17000	19.21	33.01	23.73	3.37	3.36	22.69
18000	17.99	25.14	20.58	3.32	3.30	22.87
19000	15.40	20.12	16.94	3.44	3.44	33.35
20000	17.40	18.98	18.42	3.36	3.31	23.73
21000	19.45	20.48	22.46	3.47	3.46	24.77
22000	19.10	18.68	20.65	3.37	3.31	32.06
23000	17.55	16.30	17.94	3.34	3.31	27.90
24000	19.81	17.08	17.95	3.60	3.50	32.41
25000	17.89	18.23	18.50	3.68	3.54	33.16
26000	16.60	18.00	18.88	3.65	3.64	30.21
27000	25.17	20.18	20.13	3.55	3.53	20.34

Simplified Electrical Schematic



Outline Dimensions



Outline drawing: OL-02-0626

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

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

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.