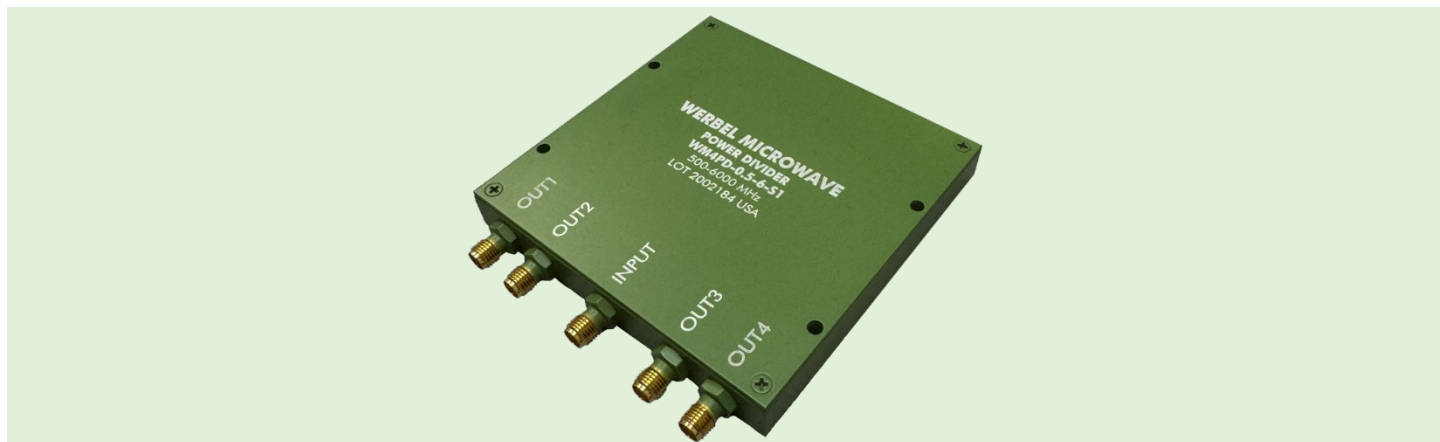


Power Divider, 4-way, 0.5-6GHz, SMA Female, Front Mount

WM4PD-0.5-6-S1



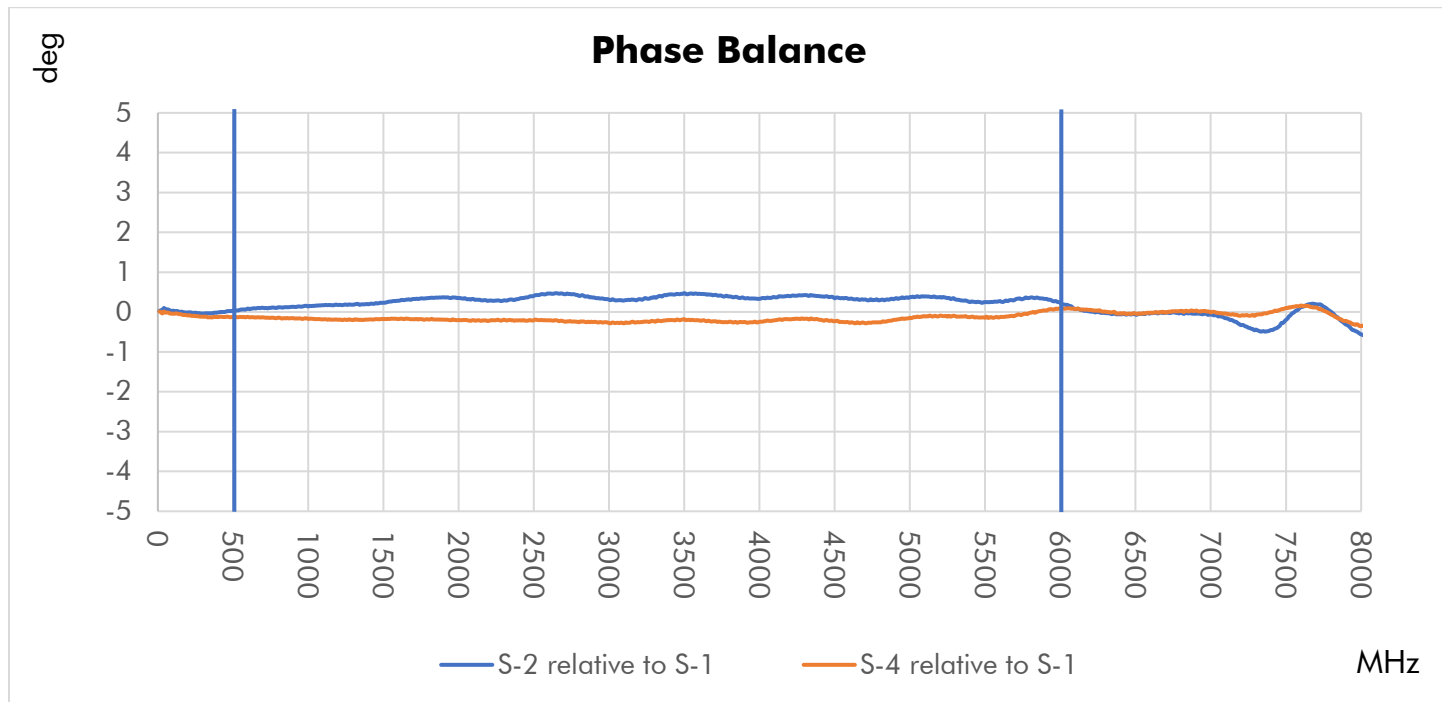
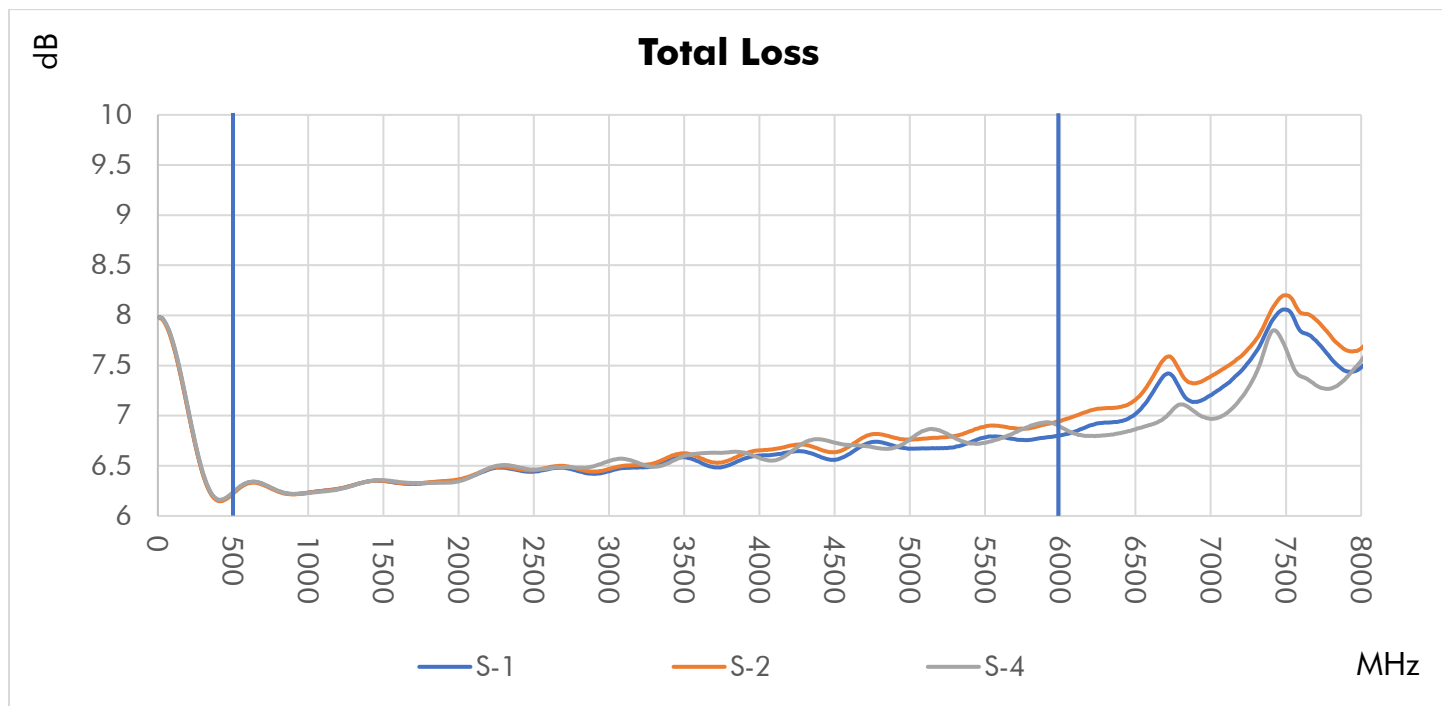
Parameter	Min.	Typ.	Max.	Unit
Frequency Range	500		6000	MHz
Impedance		50		Ω
Return Loss (Port S)	12	17.5		dB
Return Loss (Ports 1-4)	14	19.1		dB
Insertion Loss (above 6.02dB)	500-3000MHz 3000-6000MHz	0.7 1.0	1.5 2.1	dB
Isolation	17	23		dB
Amplitude Balance		0.2	0.6	dB
Phase Balance		4	10	Degree
Input Power (CW) ¹		30		W, max
Combining Power (CW) ¹		0.5		W/Port, max
Internal Dissipation		3		W, max

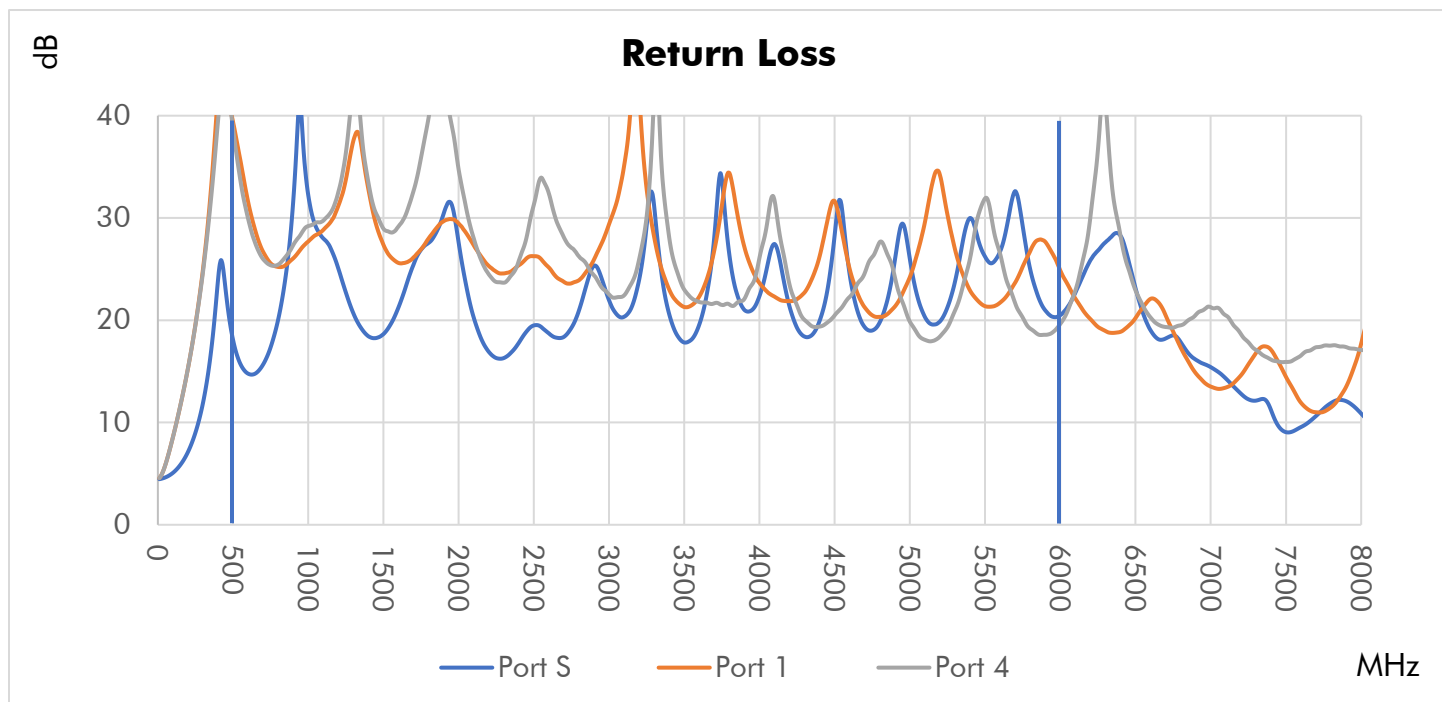
Connector Interface	SMA-Female
Operating Temperature ²	-55 to +85 °C
Storage Temperature	-55 to +100 °C
Nominal Weight	170 g (6 oz)
Operating Humidity	10-90% (non-condensing)
Operating Environment	Indoor Use Only
HTSUS Code	8548.00.0000
ECCN	EAR99

RoHS Status ³	RoHS3 Compliant
REACH Status ³	REACH Unaffected
Enclosure Material	Aluminum
Connectors Material	Stainless Steel
Contacts Material	Beryllium Copper, Gold Plated
Insulators Material	Virgin PTFE
Finish	Green Paint
Country of Origin	United States of America

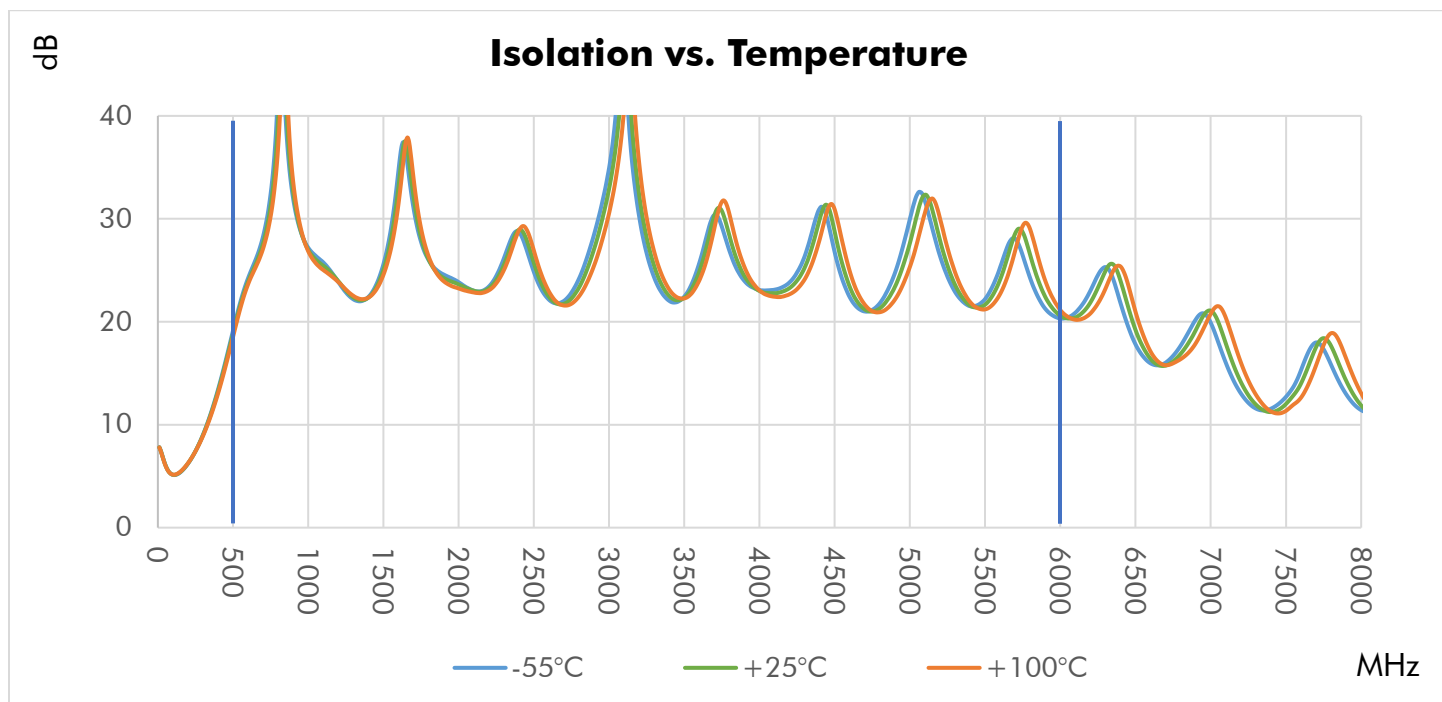
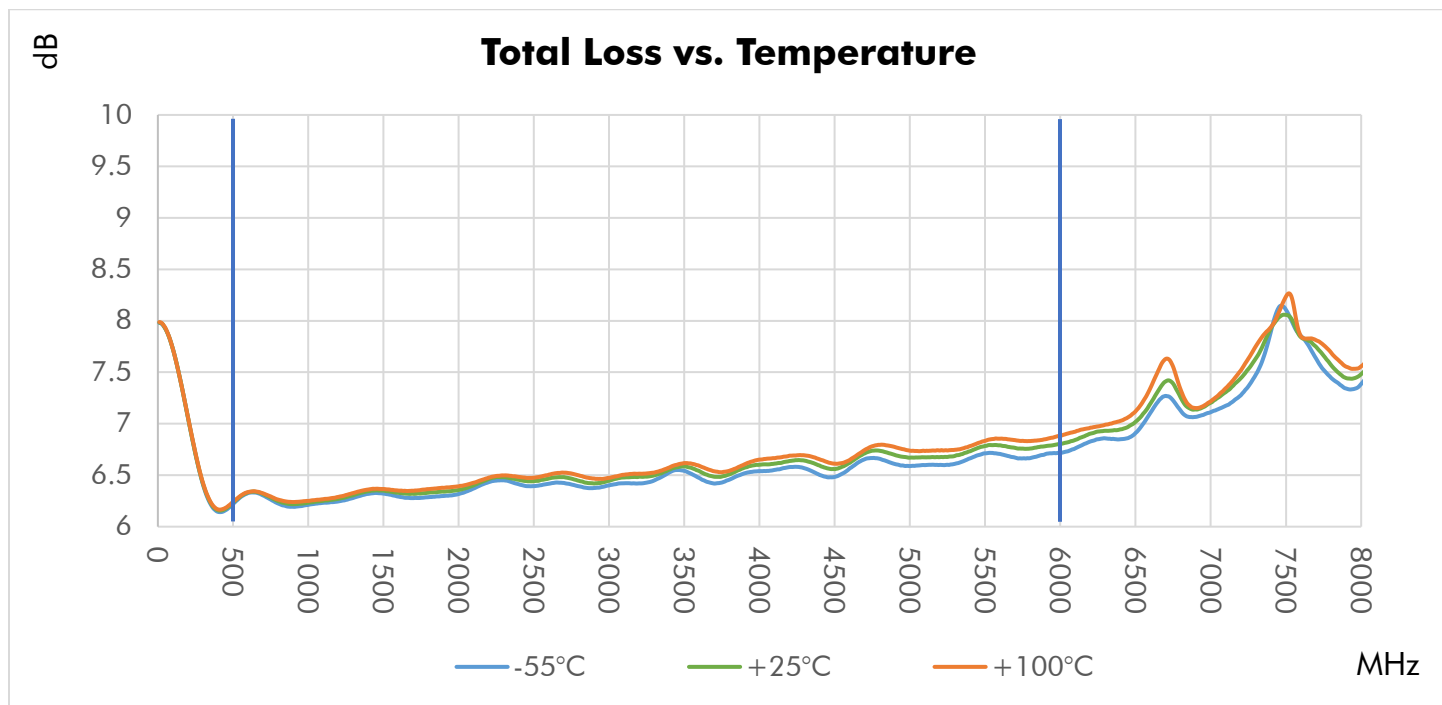
1. All output ports should be terminated in a 50-ohm load with 1.2:1 max VSWR.
2. Electrical specification at +25 °C only.
3. To the best of our knowledge at the time of publication.

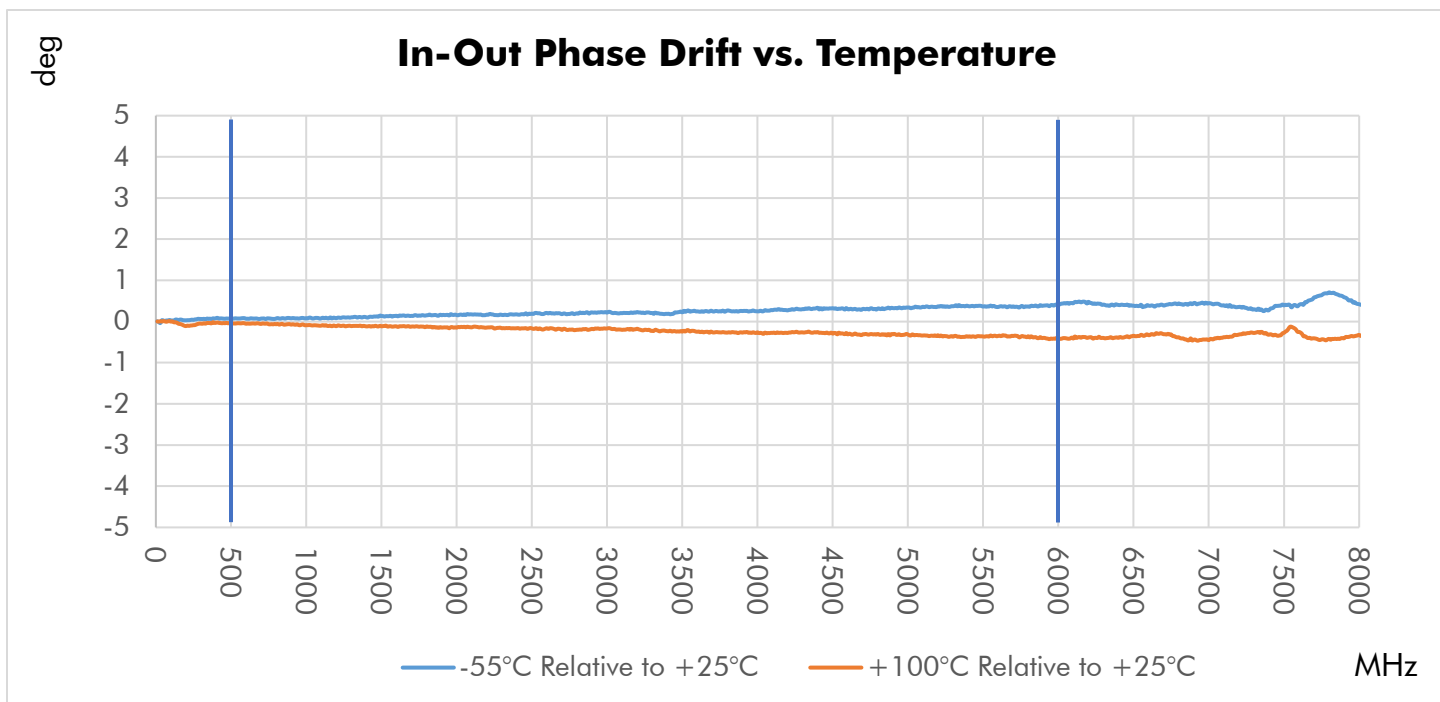
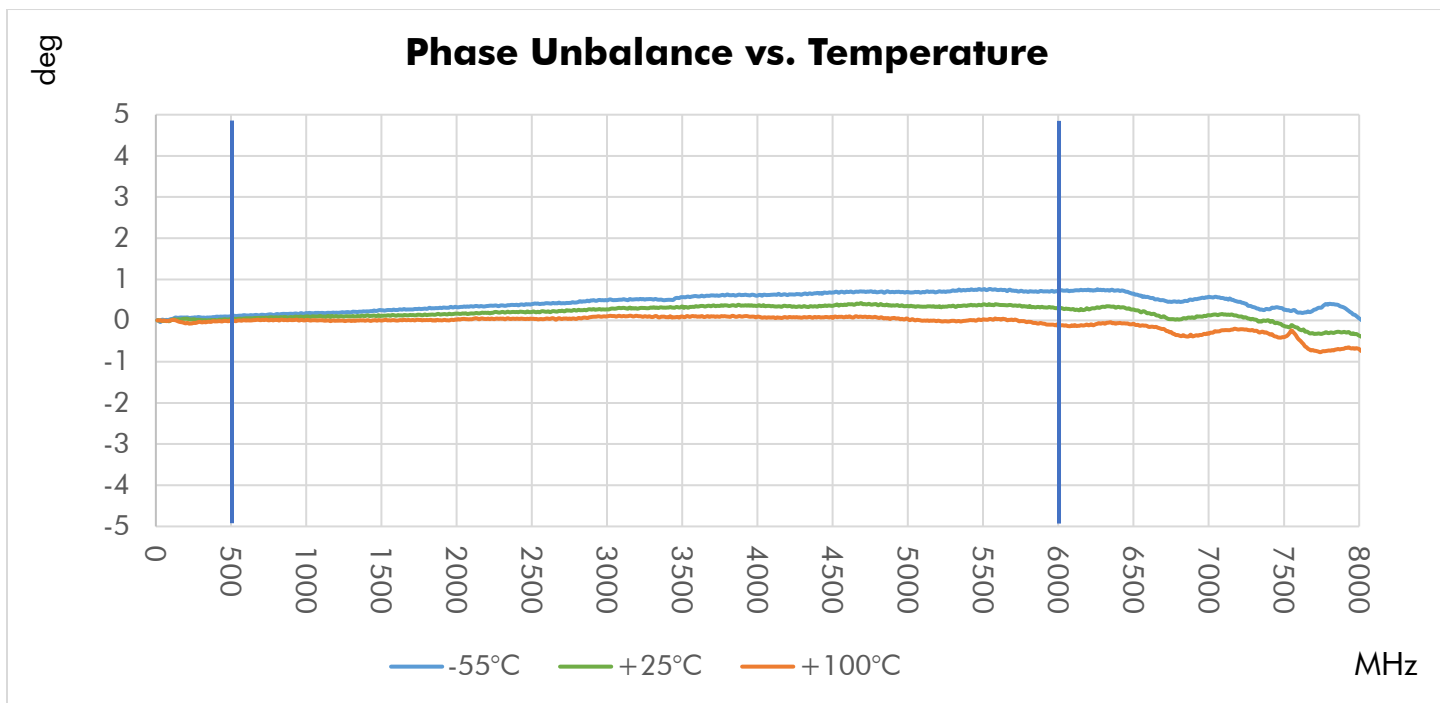
Typical Performance at +25 °C

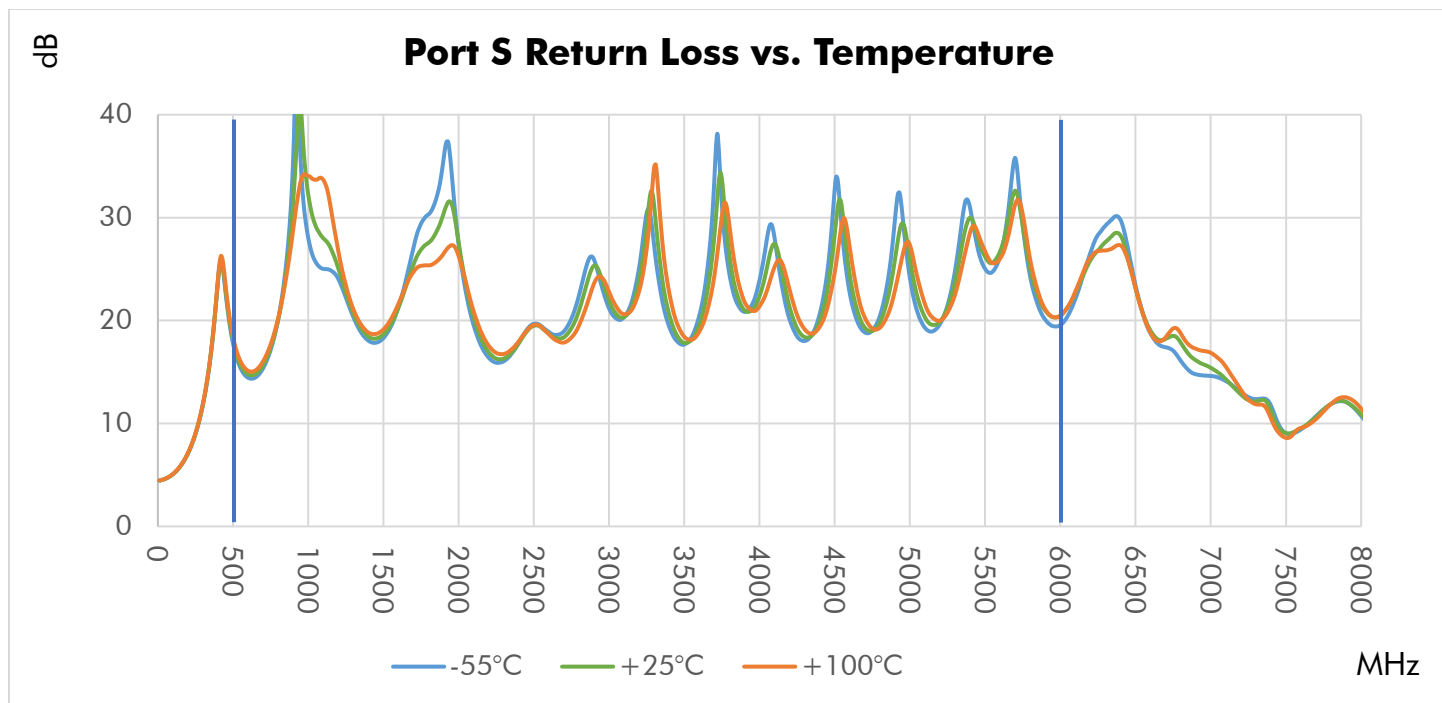




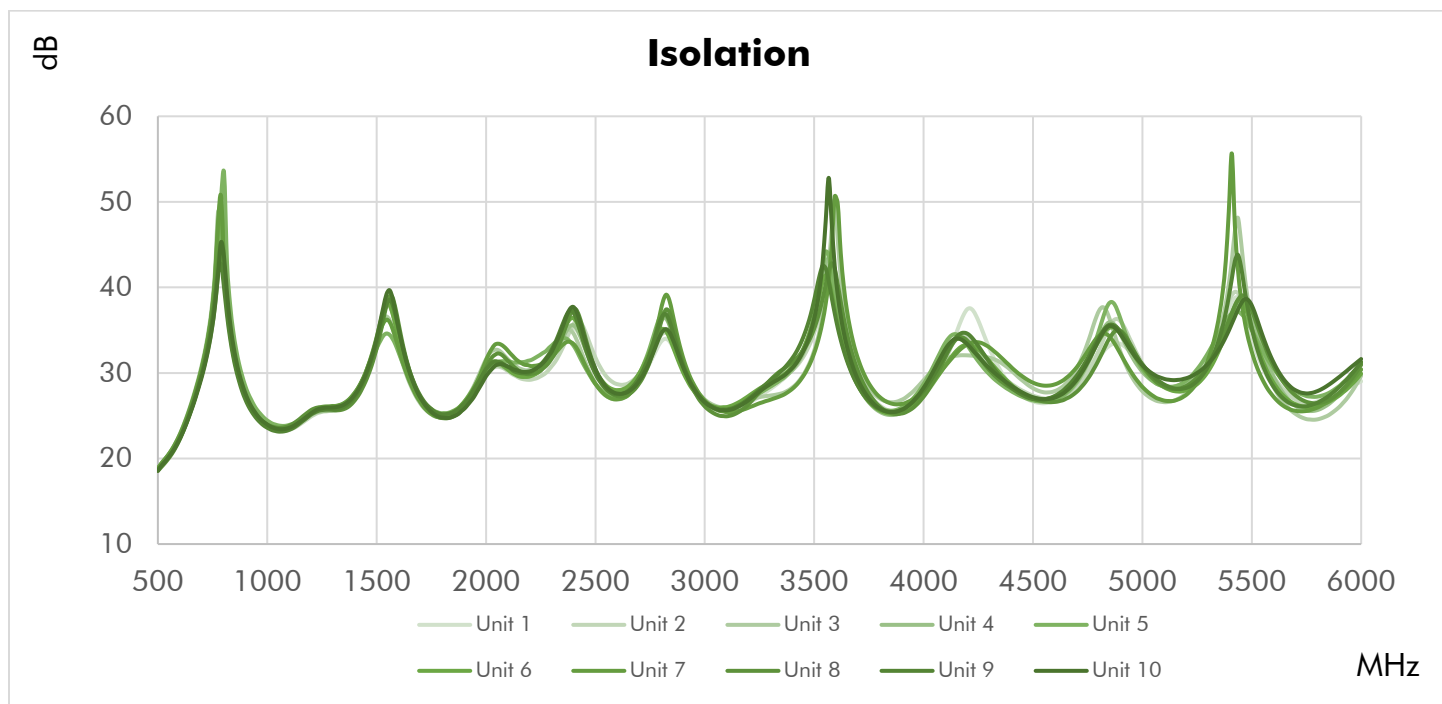
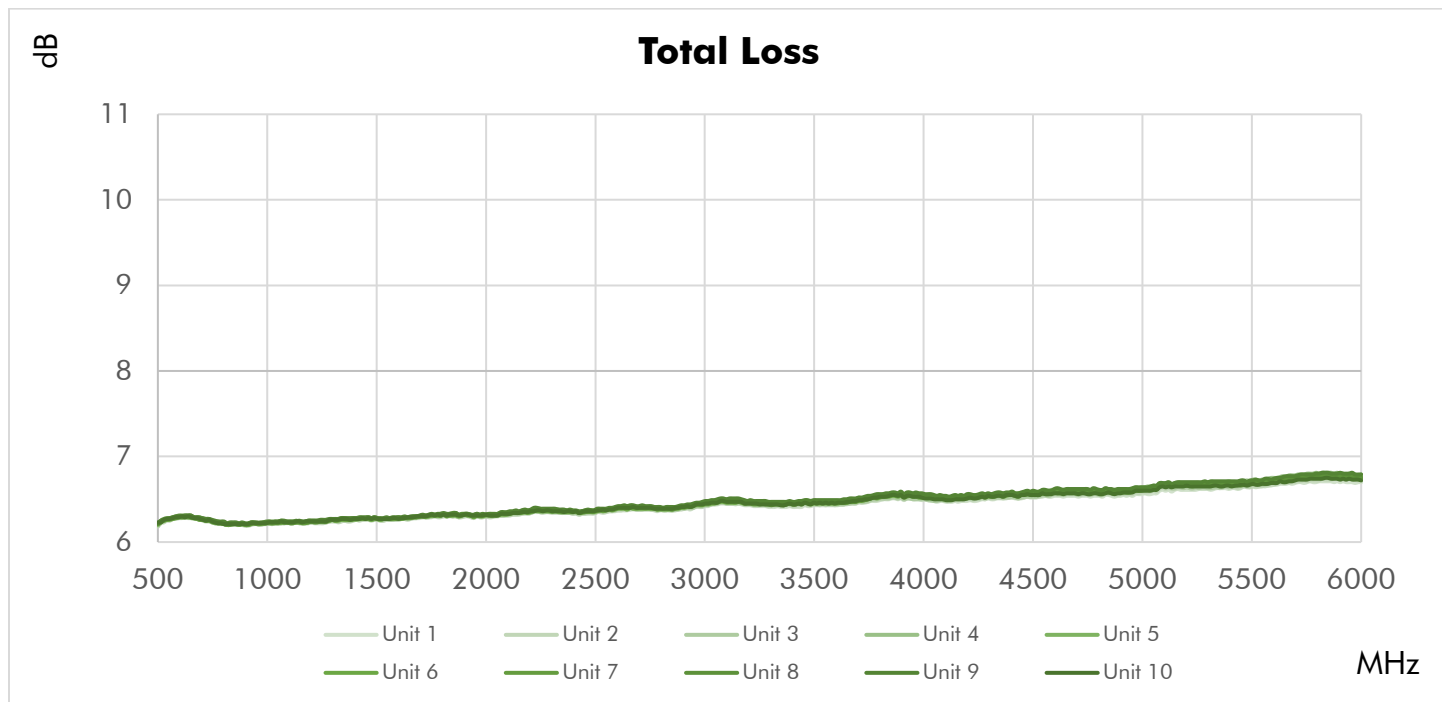
Typical Performance Over Temperature







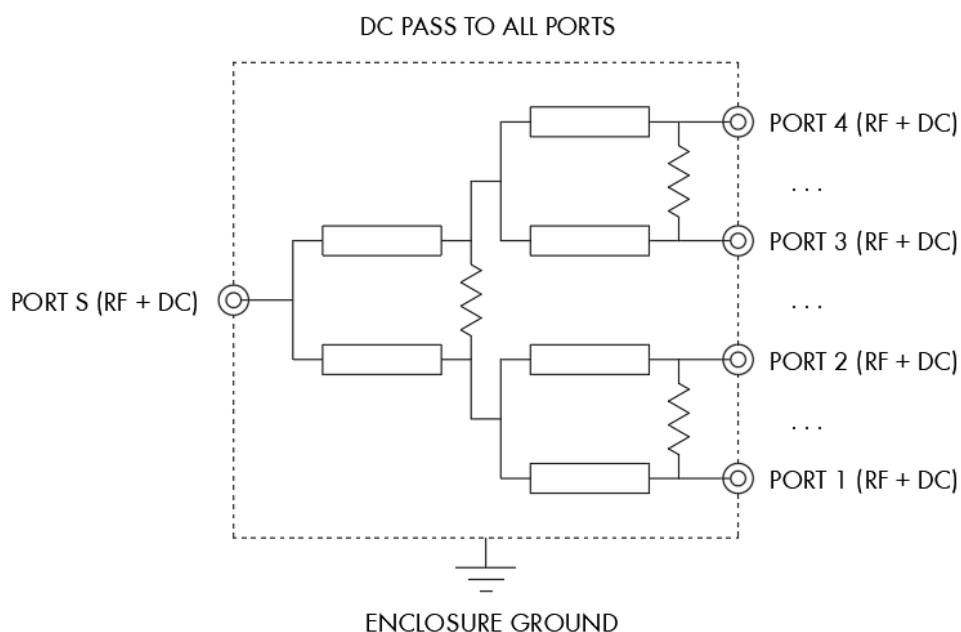
Repeatability in Production



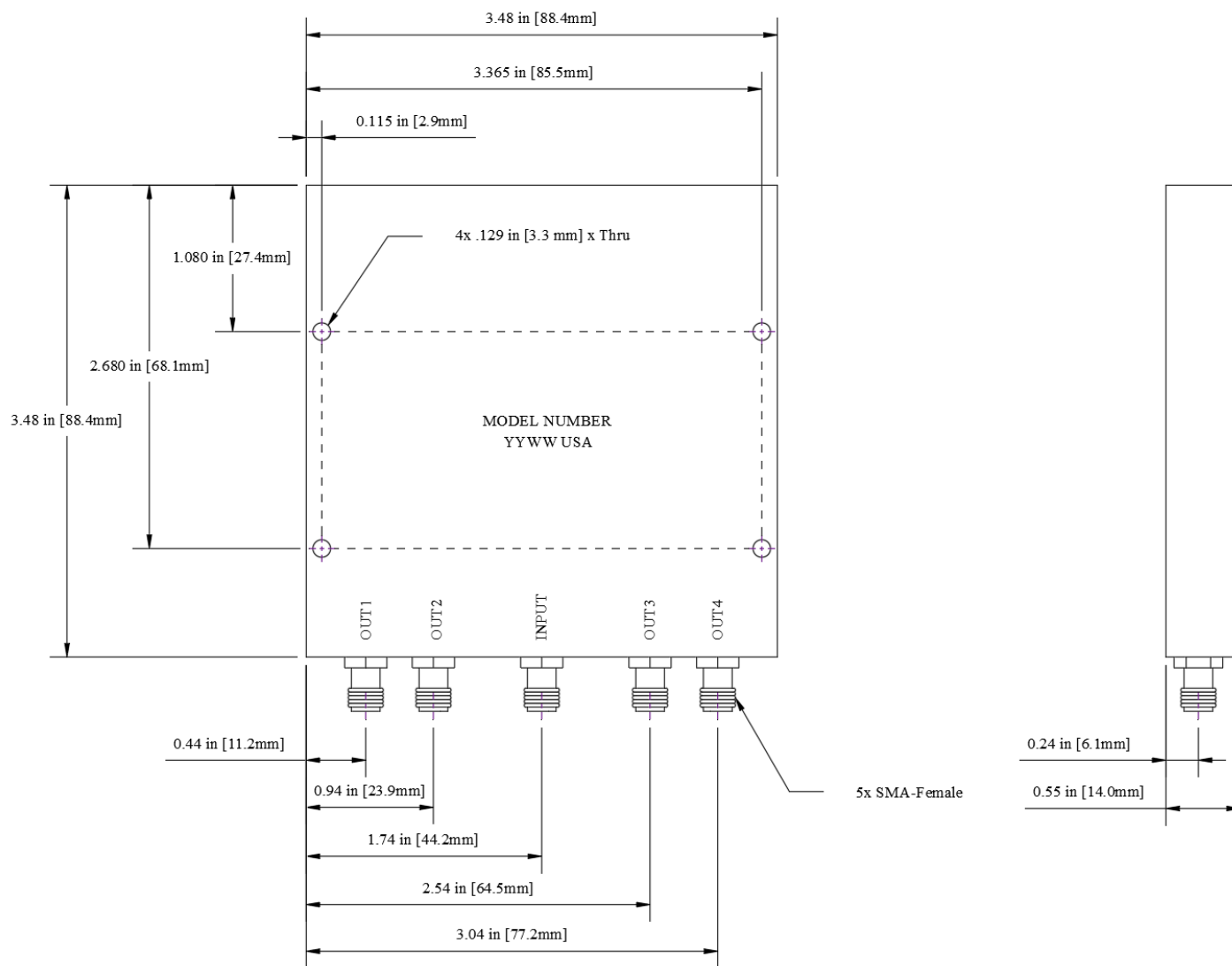
Typical Performance Data

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	19.2	46.5	43.6	6.23	6.22	18.6	22.7
550	16.6	39.5	38.4	6.28	6.28	20.2	23.6
600	15.7	33.8	33.4	6.31	6.31	22.3	24.8
650	15.9	30.2	30.2	6.31	6.31	25.7	26.4
700	16.8	28.5	28.6	6.27	6.30	30.4	28.7
750	18.8	27.6	28.0	6.25	6.26	37.2	31.0
800	21.4	27.2	27.8	6.24	6.24	40.0	34.6
850	24.6	27.9	28.7	6.22	6.23	31.0	39.7
900	26.5	29.2	30.3	6.22	6.23	26.9	43.0
950	26.2	31.3	32.8	6.23	6.24	24.8	38.4
1000	25.4	34.1	36.0	6.23	6.24	23.7	35.0
1500	26.3	29.8	30.9	6.29	6.29	33.9	33.1
2000	39.3	39.4	43.4	6.33	6.32	29.5	35.4
2500	28.9	37.5	36.0	6.38	6.36	30.7	36.9
3000	19.9	31.2	29.6	6.48	6.46	26.2	39.2
3500	27.6	32.8	33.1	6.49	6.46	34.9	46.1
4000	21.7	26.6	26.3	6.56	6.52	27.3	40.8
4500	25.7	31.2	30.3	6.59	6.54	27.5	49.7
5000	23.5	34.1	33.2	6.65	6.59	29.9	39.0
5500	32.0	41.4	38.7	6.71	6.66	34.8	40.1
6000	22.2	27.4	27.0	6.81	6.73	30.9	34.8

Simplified Electrical Schematic



Outline Dimensions



Outline drawing: OL-4967

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

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

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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.