

Power Divider, 4-way, 0.7-4GHz, BNC Female

WM4PD-0.7-4-B

Description

WM4PD-0.7-4-B is a 4-way power splitter covering the continuous bandwidth of 700 MHz to 4 GHz. It has low insertion loss and excellent VSWR performance. The device is RoHS compliant. Our unique design approach allows for broadband response using BNC connectors without sudden drop off in performance at the high frequency. Assembled and tested in the USA. High isolation typically 22dB. Provides application coverage of cellular, L, and S bands.



Photo is representative.

Specifications	Min.	Typ.	Max.	Units
Frequency	700	-	4000	MHz
Impedance	-	50	-	Ohm
Return Loss (Port 5)	12.7	14.3	-	dB
Return Loss (Port 1-4)	14.0	17.5	-	dB
Insertion Loss (Above 6.02 dB)	-	1.2	1.5	dB
Isolation	18	22	-	dB
Amplitude Unbalance	-	0.3	0.5	dB
Phase Unbalance	-	3	6	Deg
Input Power (CW) ¹	-	-	30	Watts

Mechanical

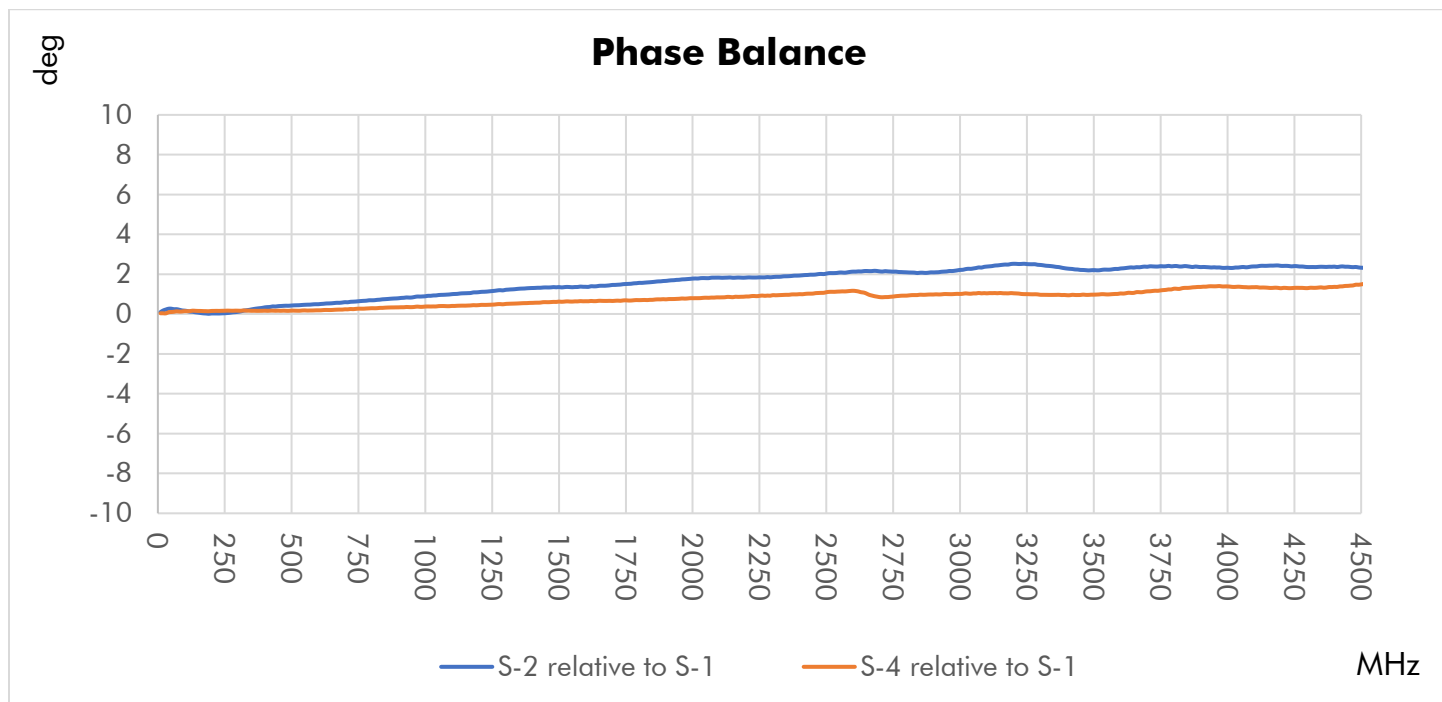
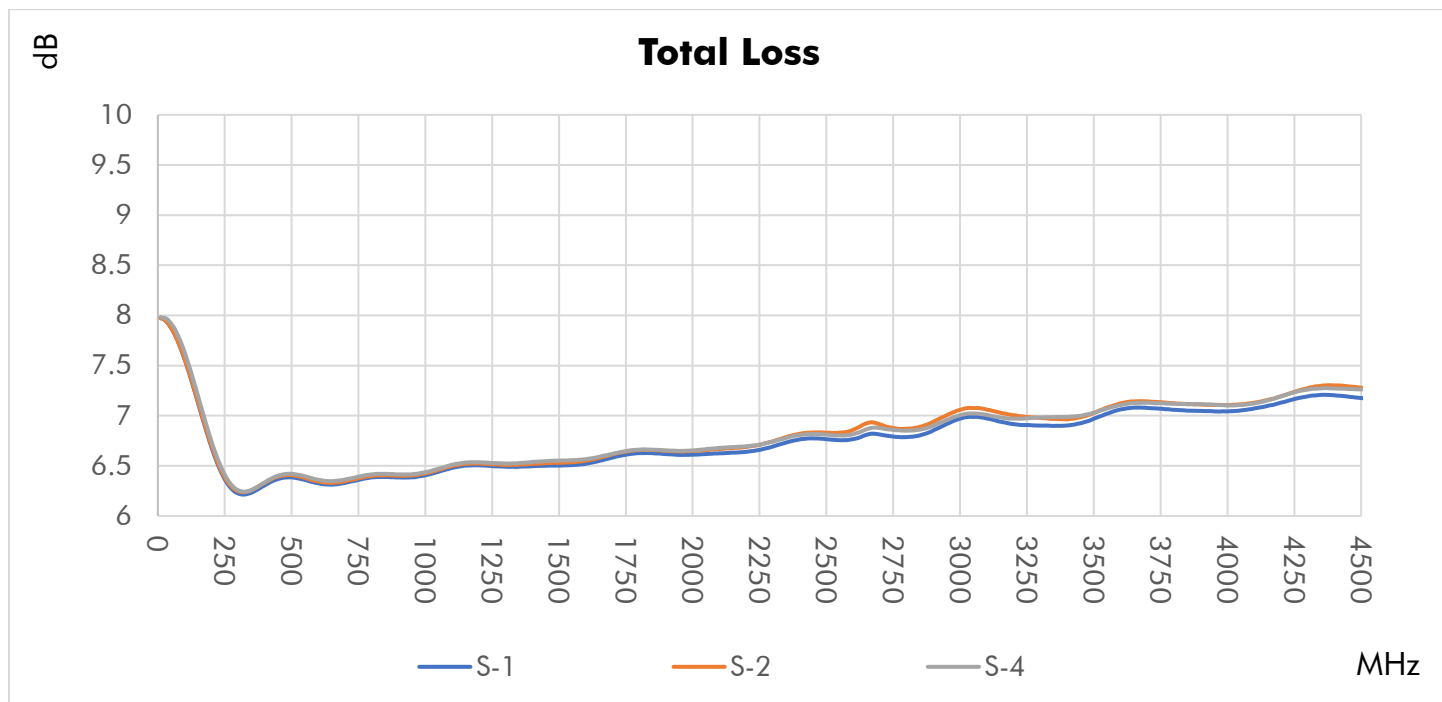
Connector Interface	BNC-Female
Operating Temperature ²	-40 to +85 °C
Storage Temperature	-55 to +100 °C
Weight Estimate	6 oz (170 g)
Humidity	10-90% non-condensing
Environment	Indoor use only
CAGE Code	78YZ0

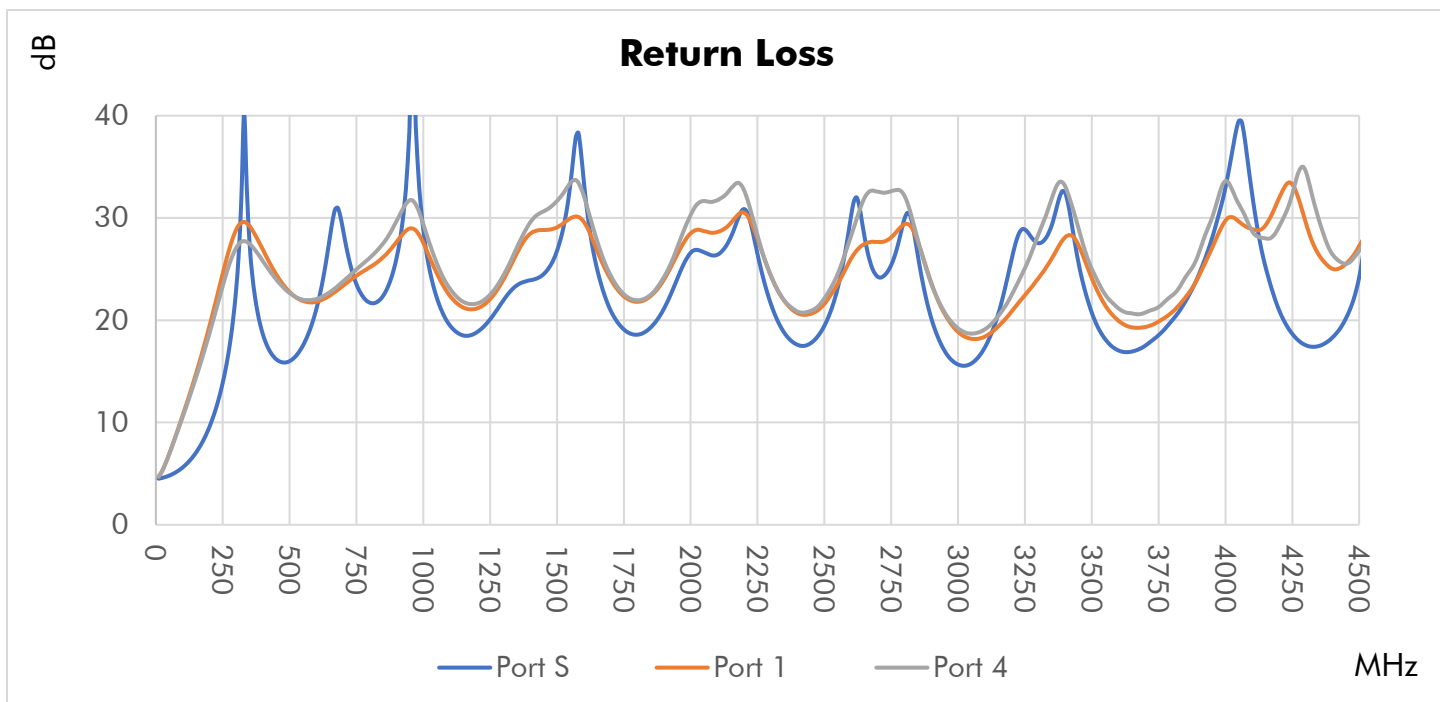
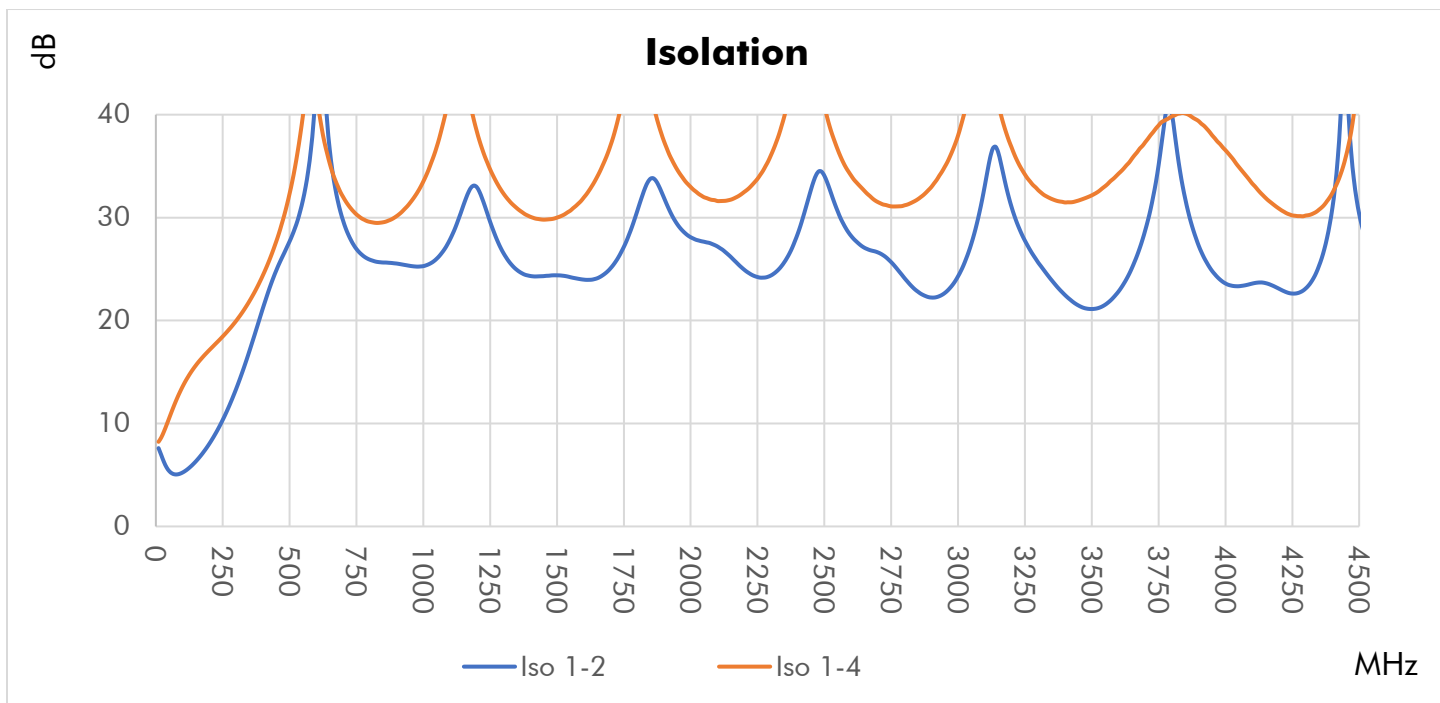
1. All output ports should be terminated in a 50-ohm load with 1.2:1 max VSWR.
2. Electrical specification at +25 °C only.
3. To the best of our knowledge at the time of publication.

Materials

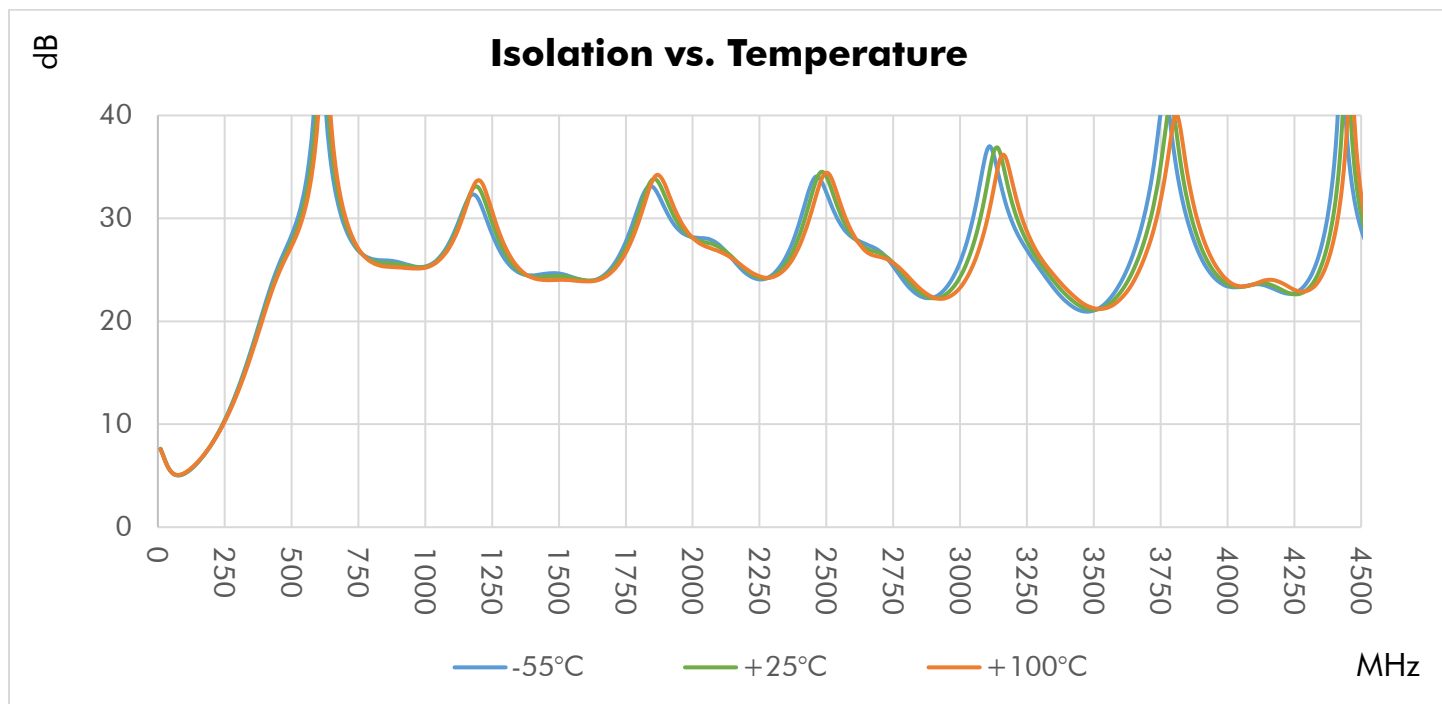
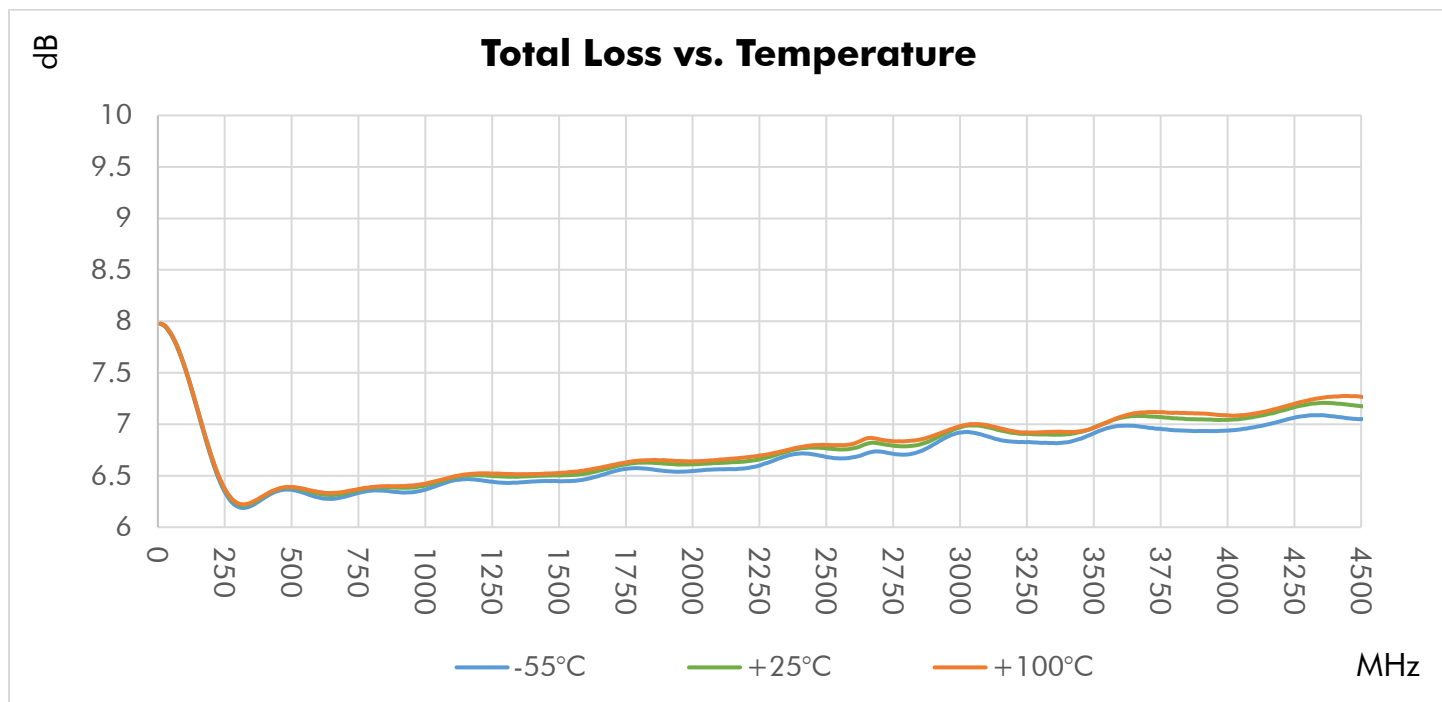
RoHS Compliant ³	Yes
REACH Compliant ³	Yes
Enclosure	Aluminum
Connectors	Brass, Tri-Alloy Plated
Contacts	Be Cu, Gold Plated
Insulators	PTFE
Finish	Green Paint

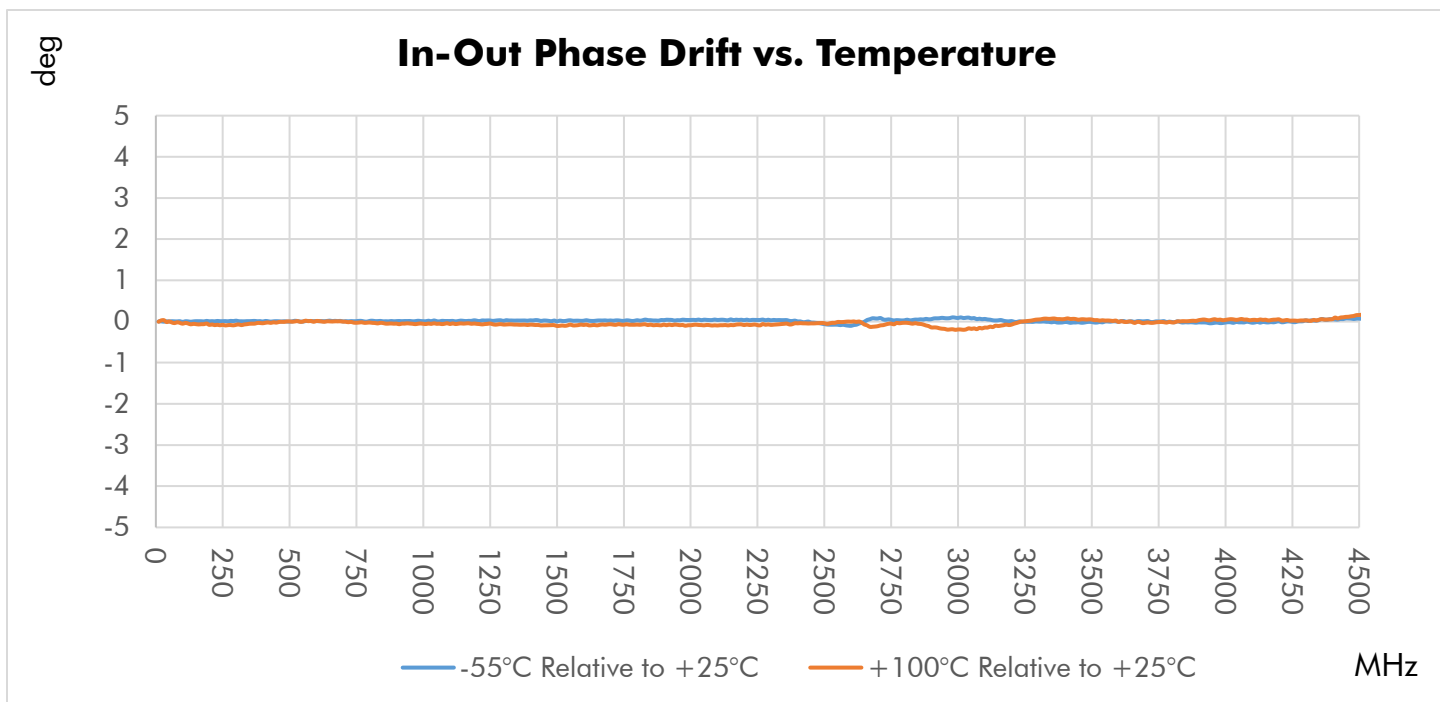
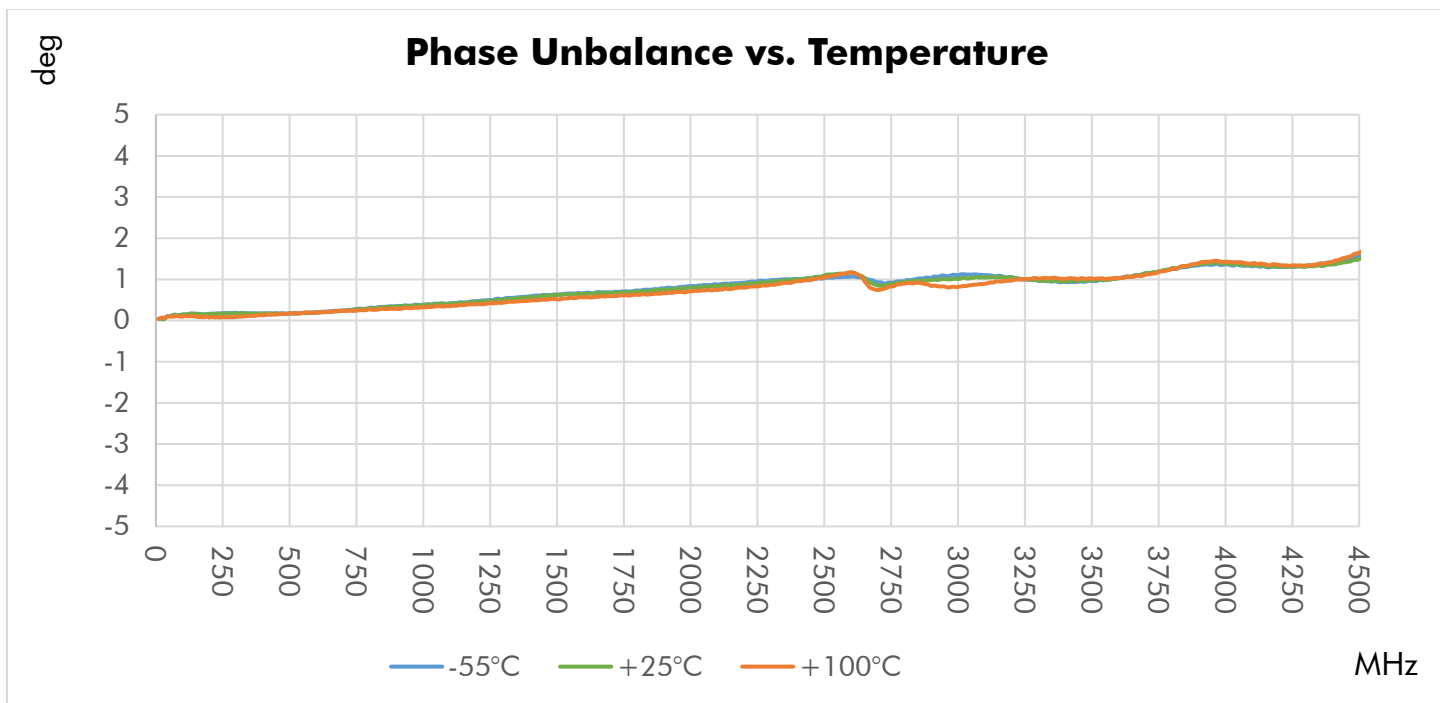
Typical Performance at +25 °C

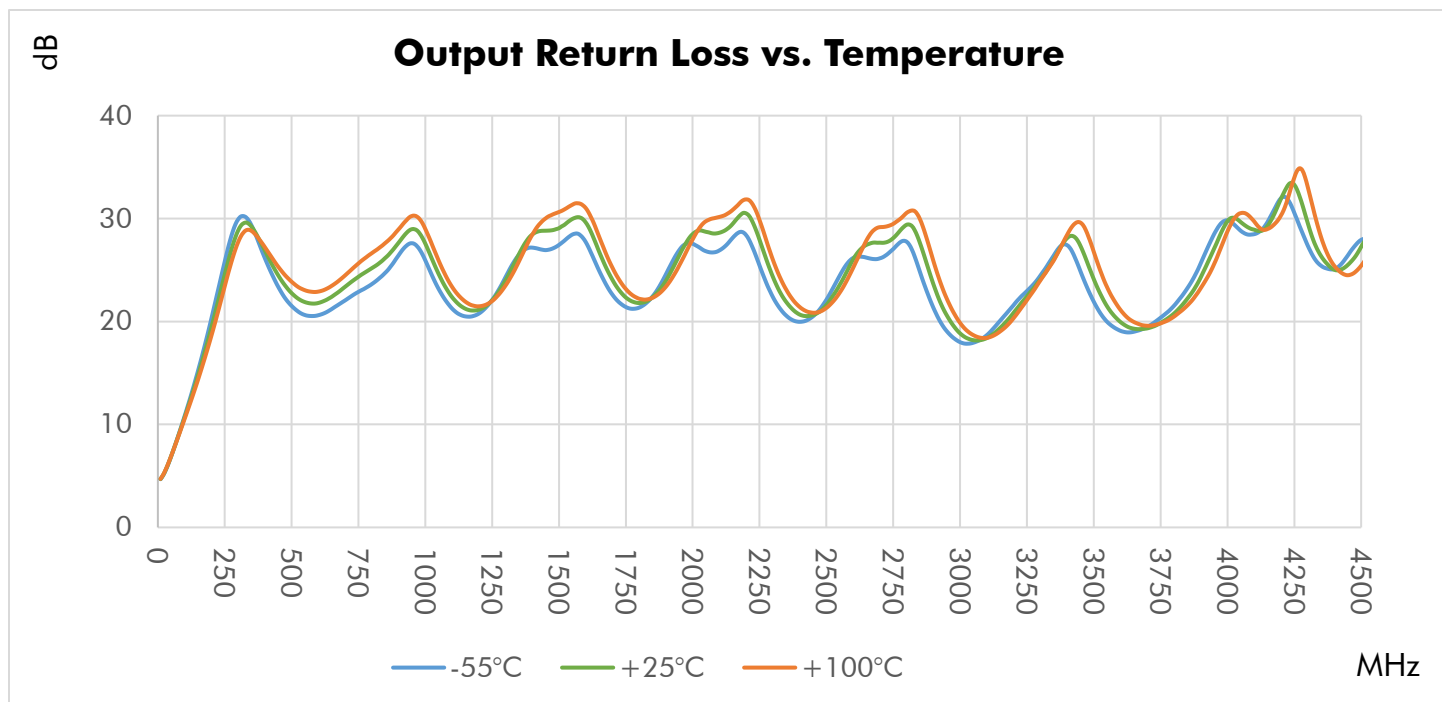
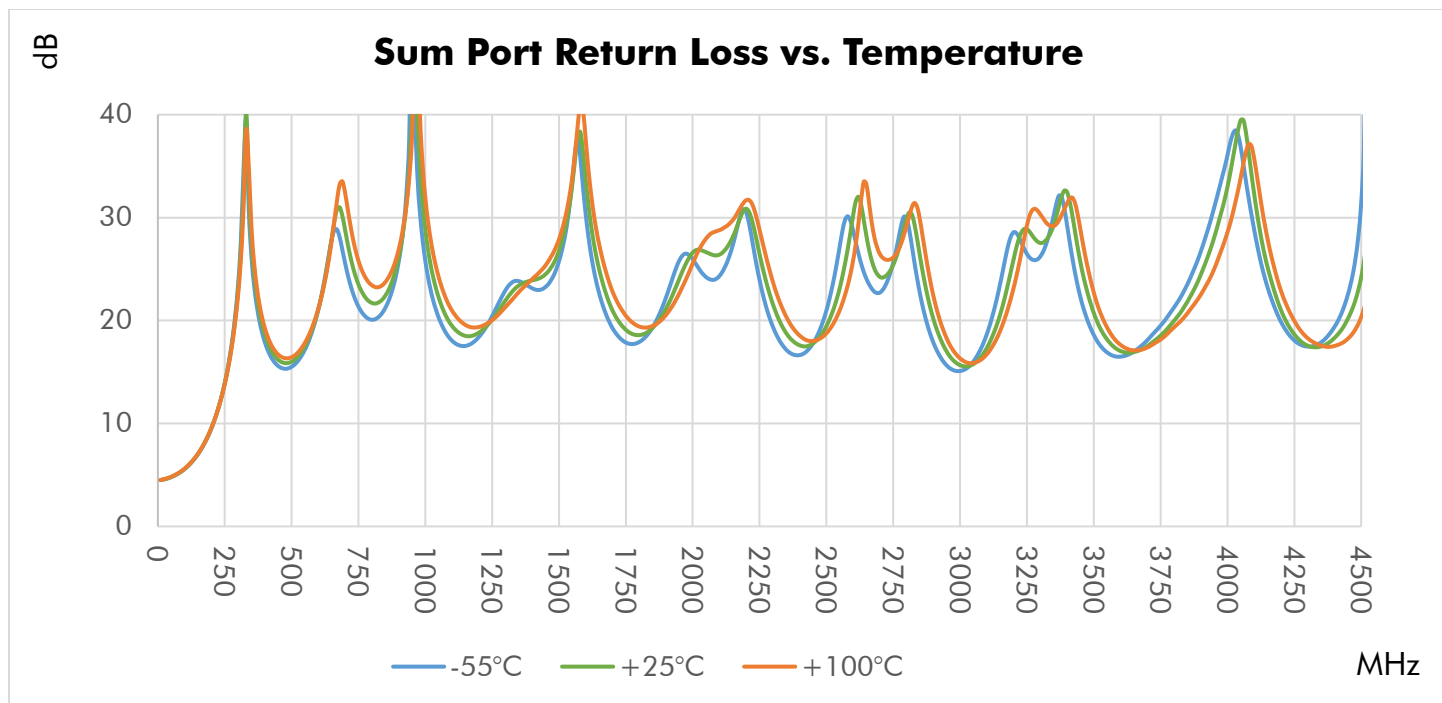




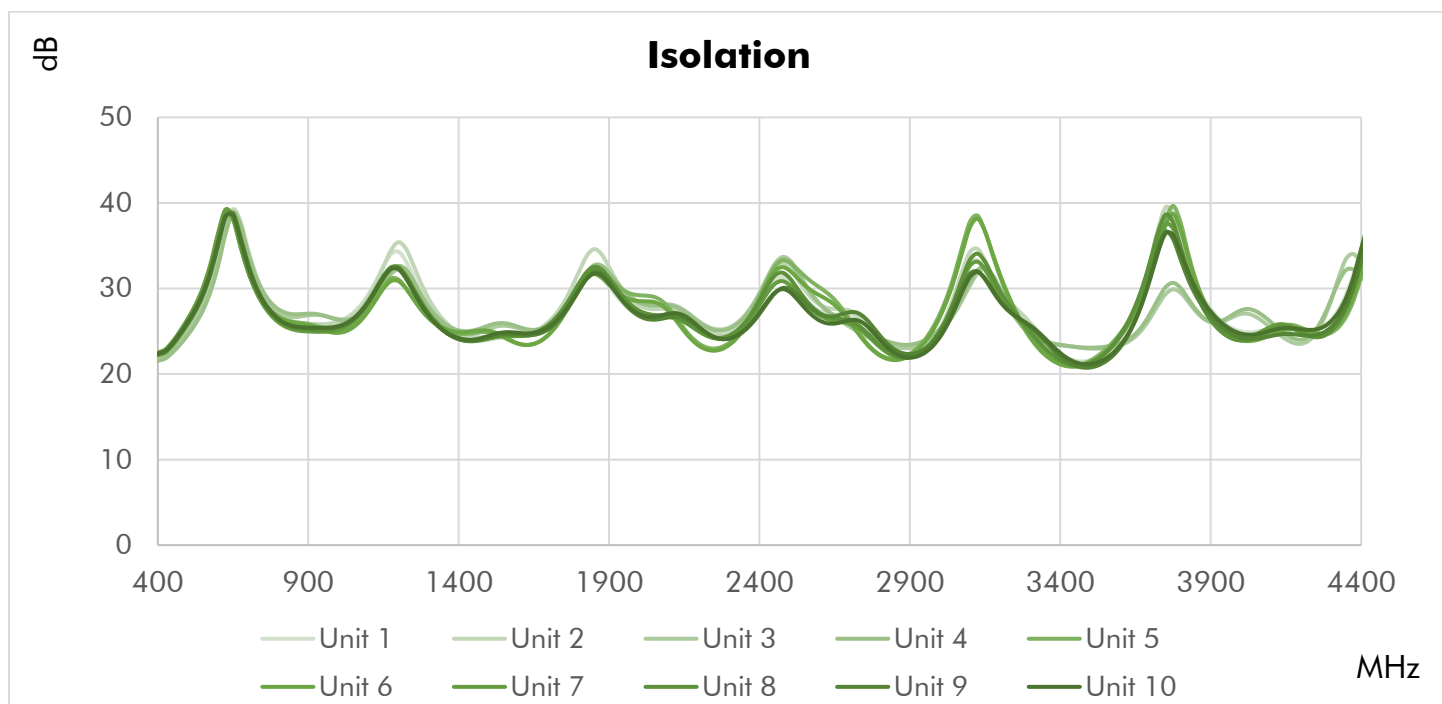
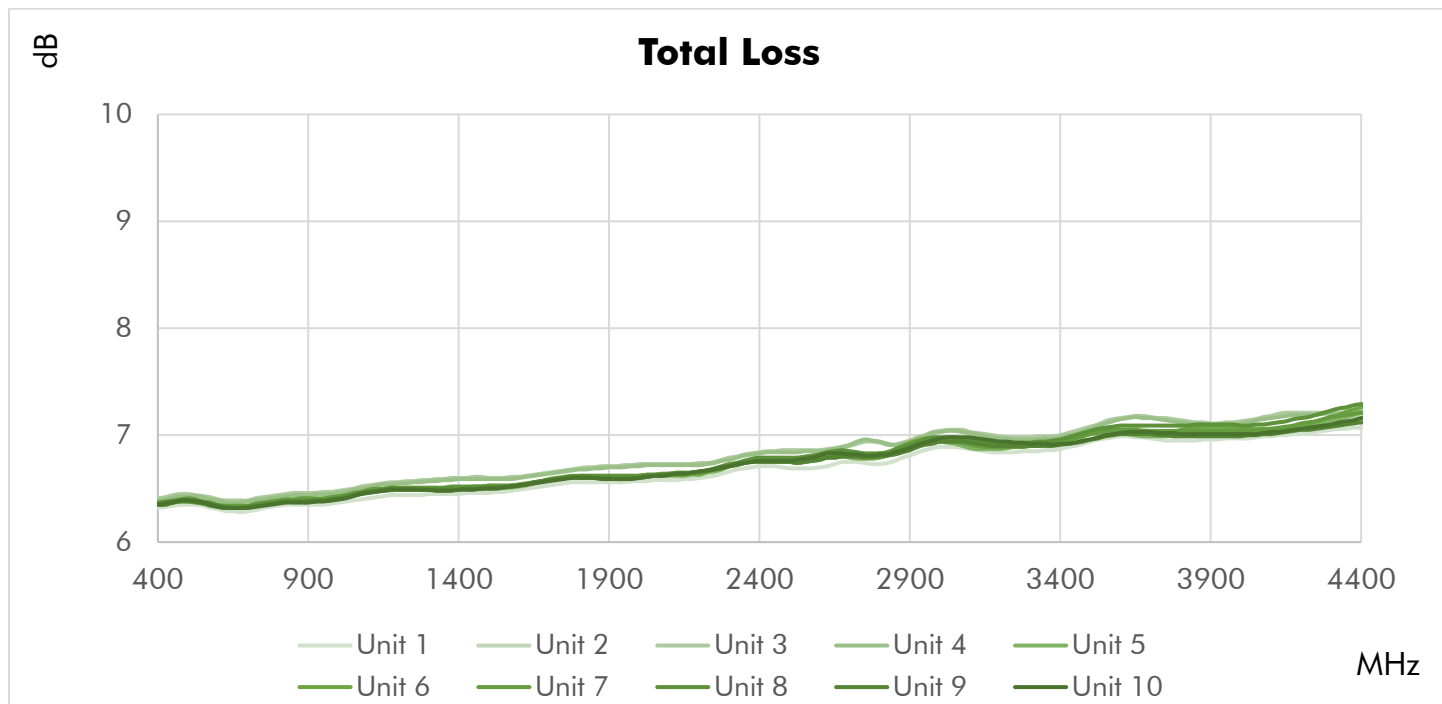
Typical Performance Over Temperature







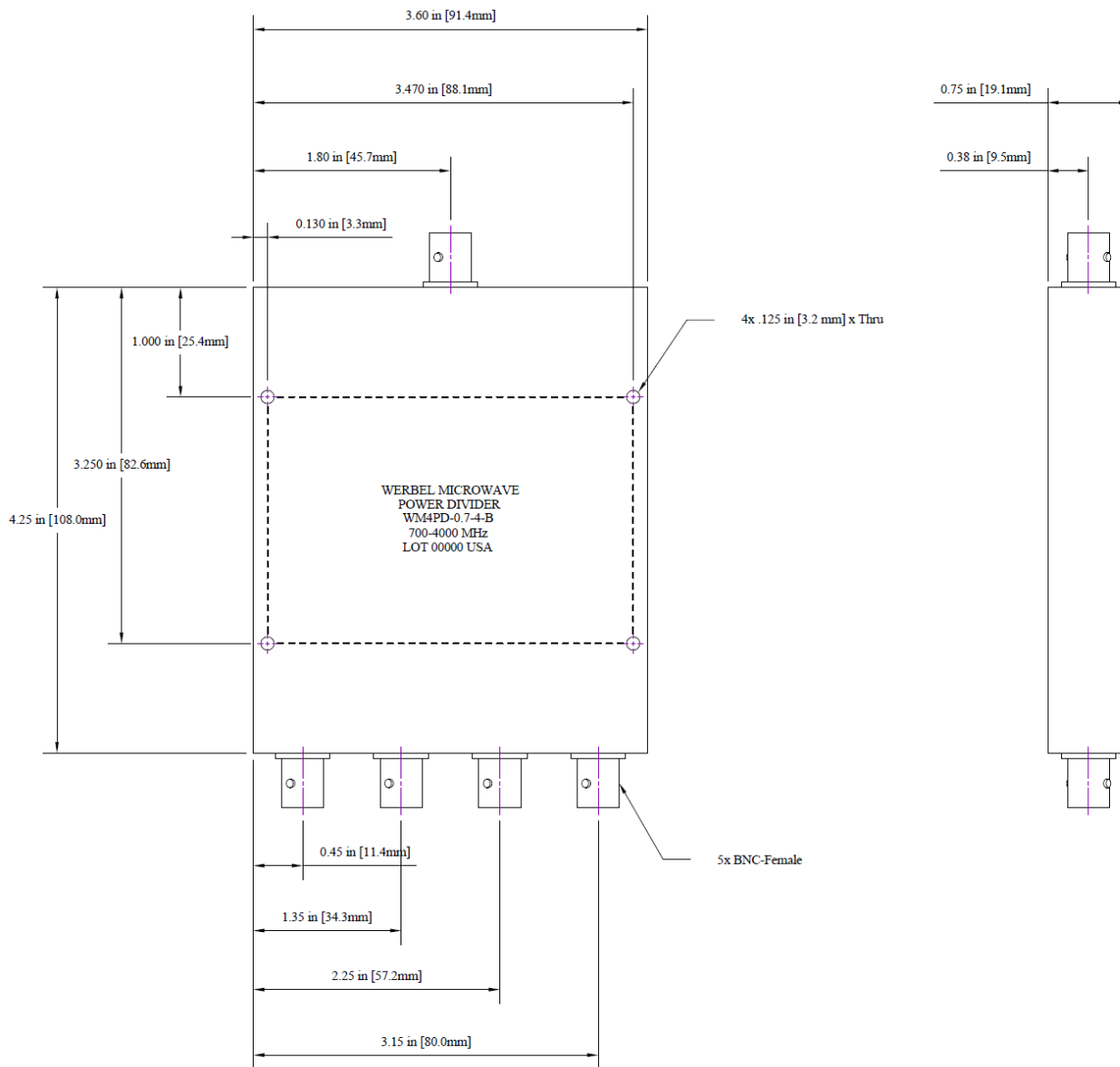
Repeatability in Production



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
400	18.0	26.2	25.0	6.32	6.39	22.5	22.2
450	15.6	24.4	23.6	6.34	6.41	23.8	23.3
500	15.3	23.1	22.9	6.35	6.43	26.3	25.4
550	16.7	22.3	22.4	6.34	6.41	29.8	28.2
600	19.9	22.6	22.9	6.31	6.38	35.6	33.4
650	25.8	23.2	23.7	6.29	6.35	38.1	39.3
700	30.8	25.1	25.8	6.29	6.35	32.3	34.5
750	25.4	26.0	26.9	6.32	6.38	28.4	29.6
800	23.0	27.2	28.5	6.34	6.39	26.4	27.2
850	23.5	28.1	29.9	6.35	6.40	25.7	26.1
900	26.8	29.2	31.6	6.35	6.41	25.6	25.9
950	38.7	30.9	34.0	6.35	6.41	25.8	25.8
1000	31.0	30.1	32.3	6.37	6.43	26.2	26.0
1250	21.6	23.2	23.1	6.44	6.50	31.4	32.7
1500	29.7	34.2	33.3	6.46	6.52	24.0	24.4
1750	20.1	23.3	24.9	6.55	6.61	28.0	28.4
2000	26.0	32.8	31.8	6.57	6.62	26.9	28.0
2250	24.7	28.4	33.0	6.62	6.70	24.3	24.7
2500	21.8	22.6	23.4	6.69	6.76	30.9	32.5
2750	27.3	30.5	32.3	6.74	6.82	25.8	26.1
3000	16.0	18.7	19.9	6.89	6.90	25.3	25.3
3250	29.3	24.0	24.3	6.84	6.89	27.4	27.8
3500	18.5	24.0	24.6	6.94	6.96	21.6	21.5
3750	21.8	21.4	20.7	6.95	7.02	39.3	39.5
4000	25.0	27.9	26.8	6.97	7.02	25.0	24.6
4250	24.4	30.2	28.8	7.03	7.10	25.2	24.5
4500	25.4	27.5	24.7	7.07	7.17	34.9	37.2

Outline Dimensions



Outline drawing: OL-4047

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

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

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