

Power Divider, 2-way, 2-18GHz, N Female

WM2PD-2-18-N



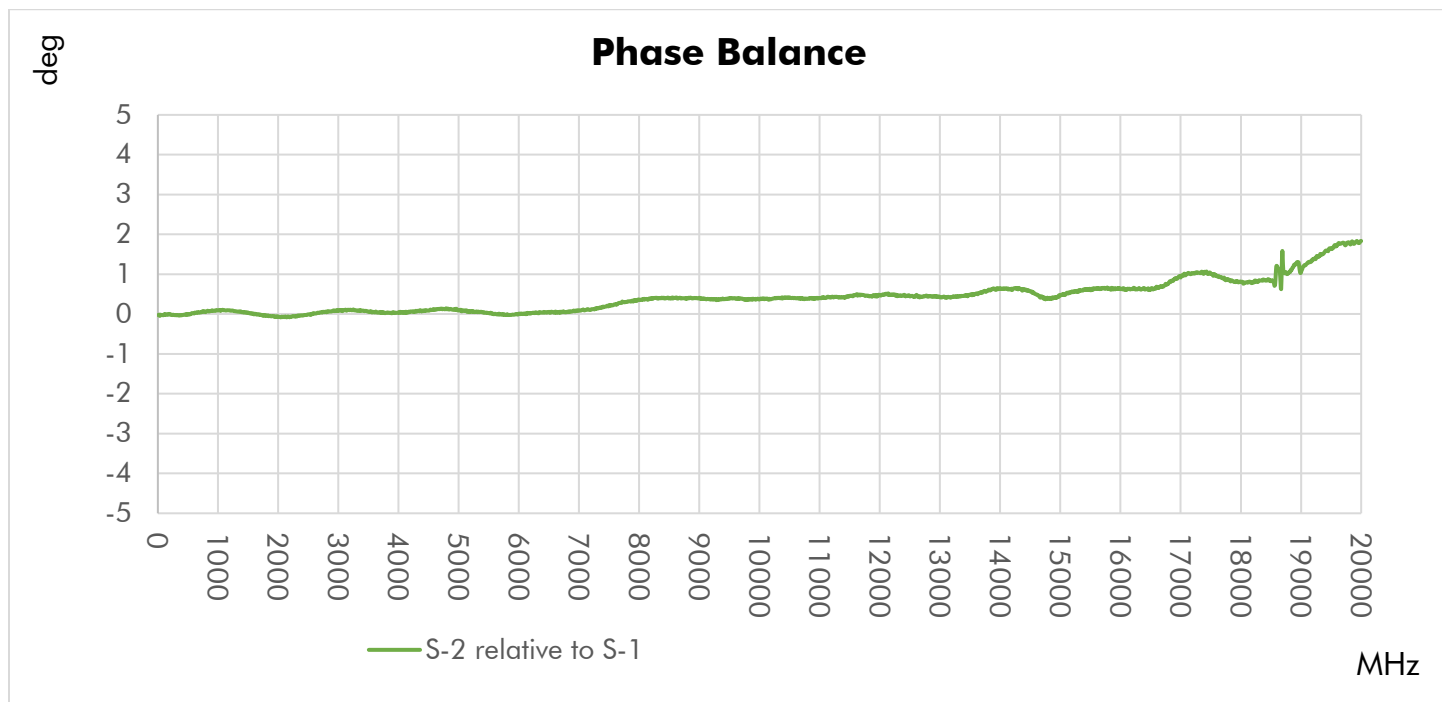
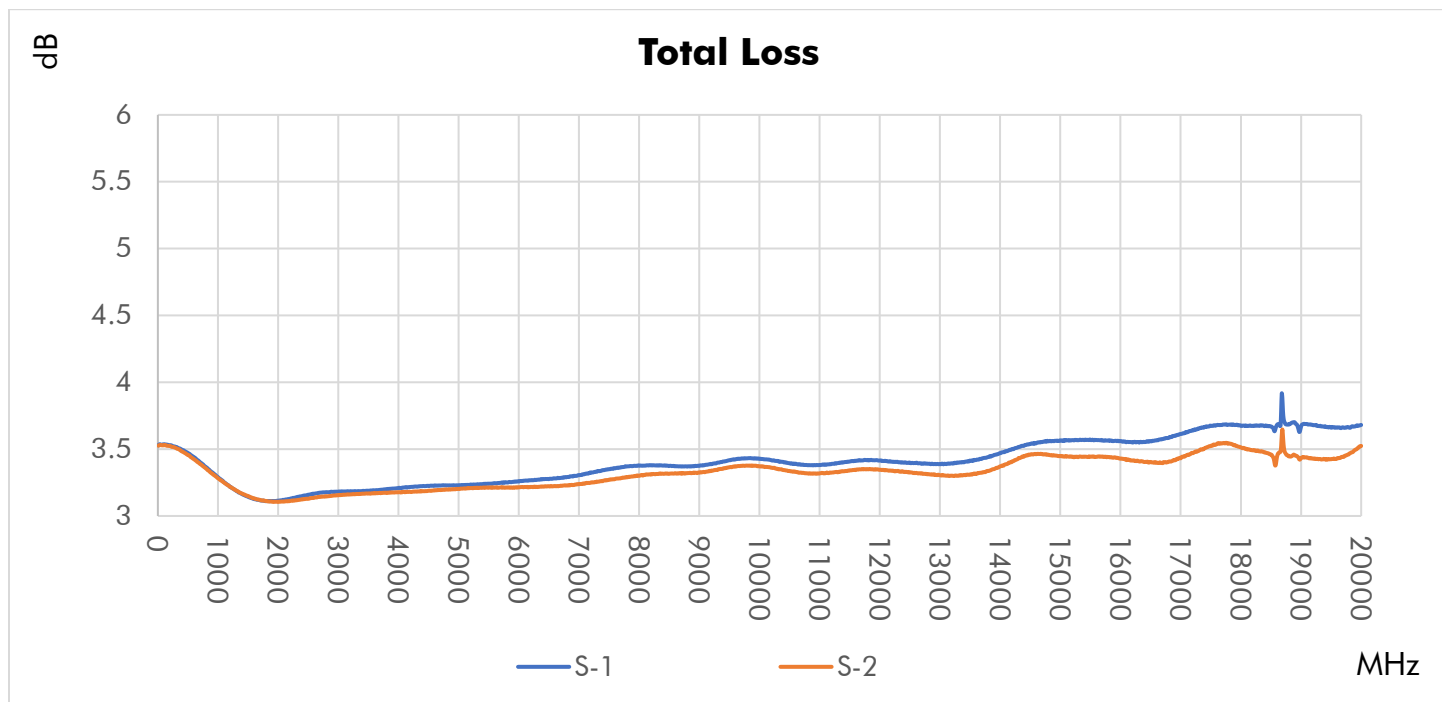
Parameter	Low Band	Mid Band	High Band	Unit
Frequency Range	2000-8000	8000-12400	12400-18000	MHz
Impedance	50			Ω
Return Loss (Port S)	10	10	10	dB, min.
Return Loss (Port 1-2)	12	12	12	dB, min.
Insertion Loss above 3.01dB	0.9	1.2	1.5	dB, max.
Isolation	16	16	14	dB, min.
Amplitude Unbalance ($\pm$) ¹	0.30	0.50	0.75	dB, max.
Phase Unbalance ($\pm$) ¹	2	6	8	Degree, max.
Input Power (CW) ²	30			W, max.
Combining Power (CW) ²	0.025			W/port, max.
DC Current	0.3			A/port, max.

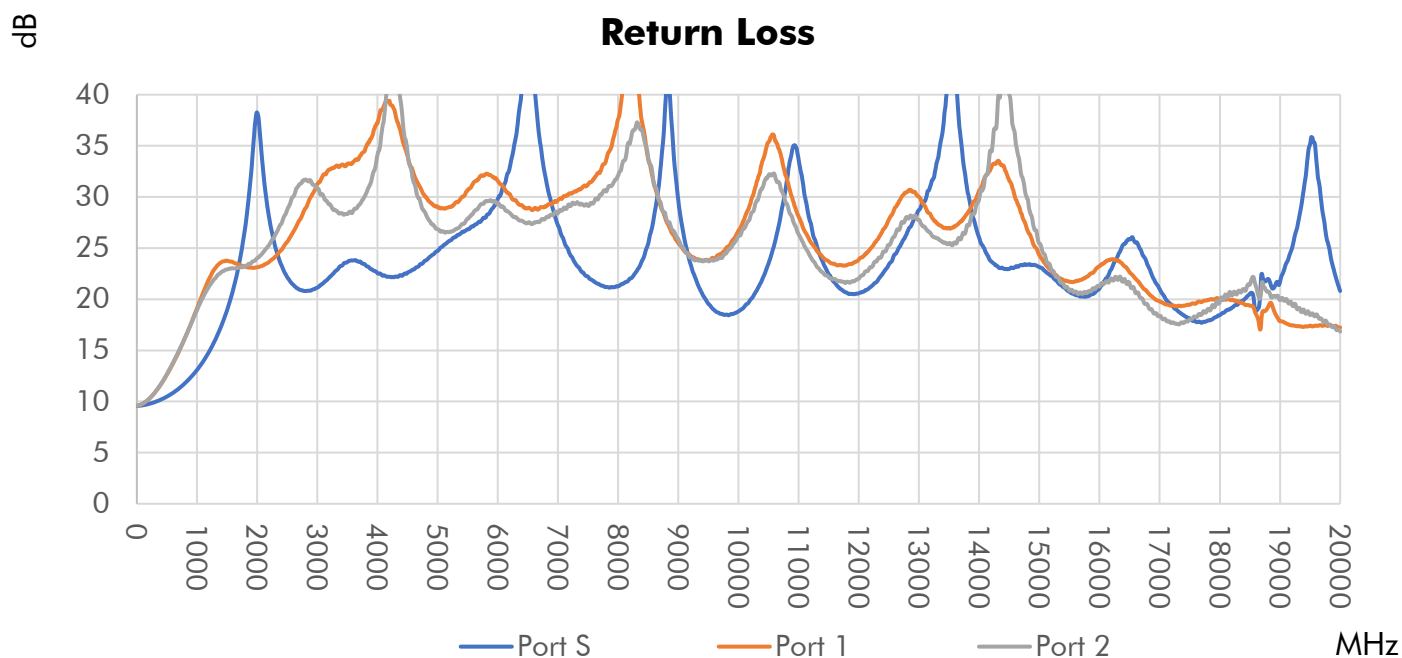
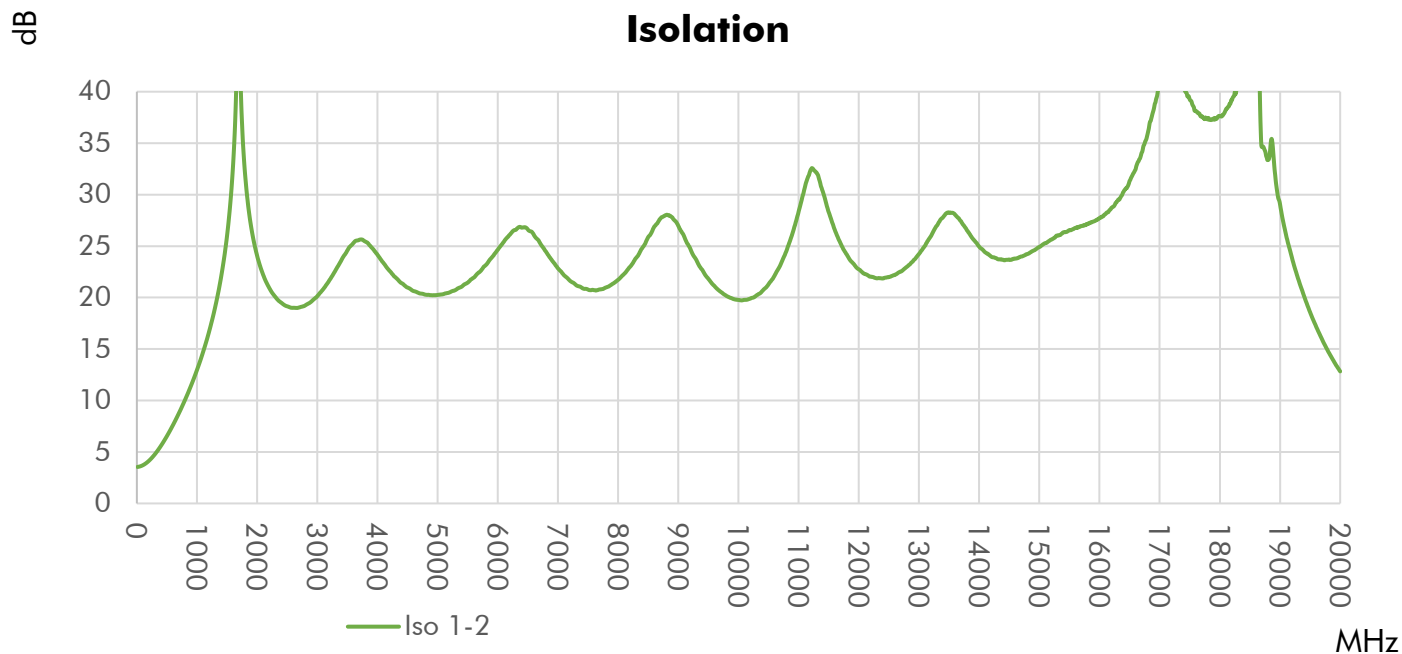
Connector Interface	N Female
Operating Temperature ³	-55 to +85 °C
Storage Temperature	-55 to +100 °C
Nominal Weight	204 g (7.2 oz)
Operating Humidity	10-90% (non-condensing)
Operating Environment	Indoor Use Only
HTSUS Code	8548.00.0000
ECCN	EAR99

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
Country of Origin	United States of America

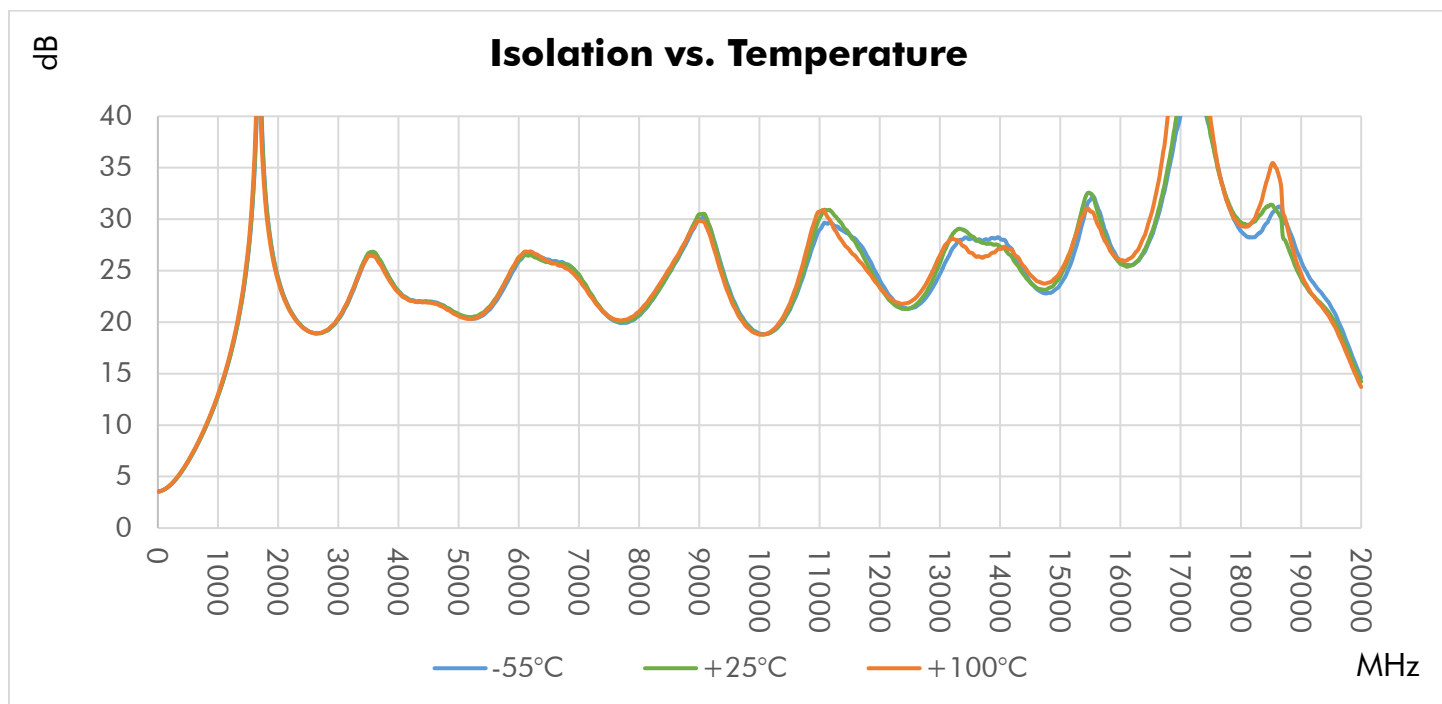
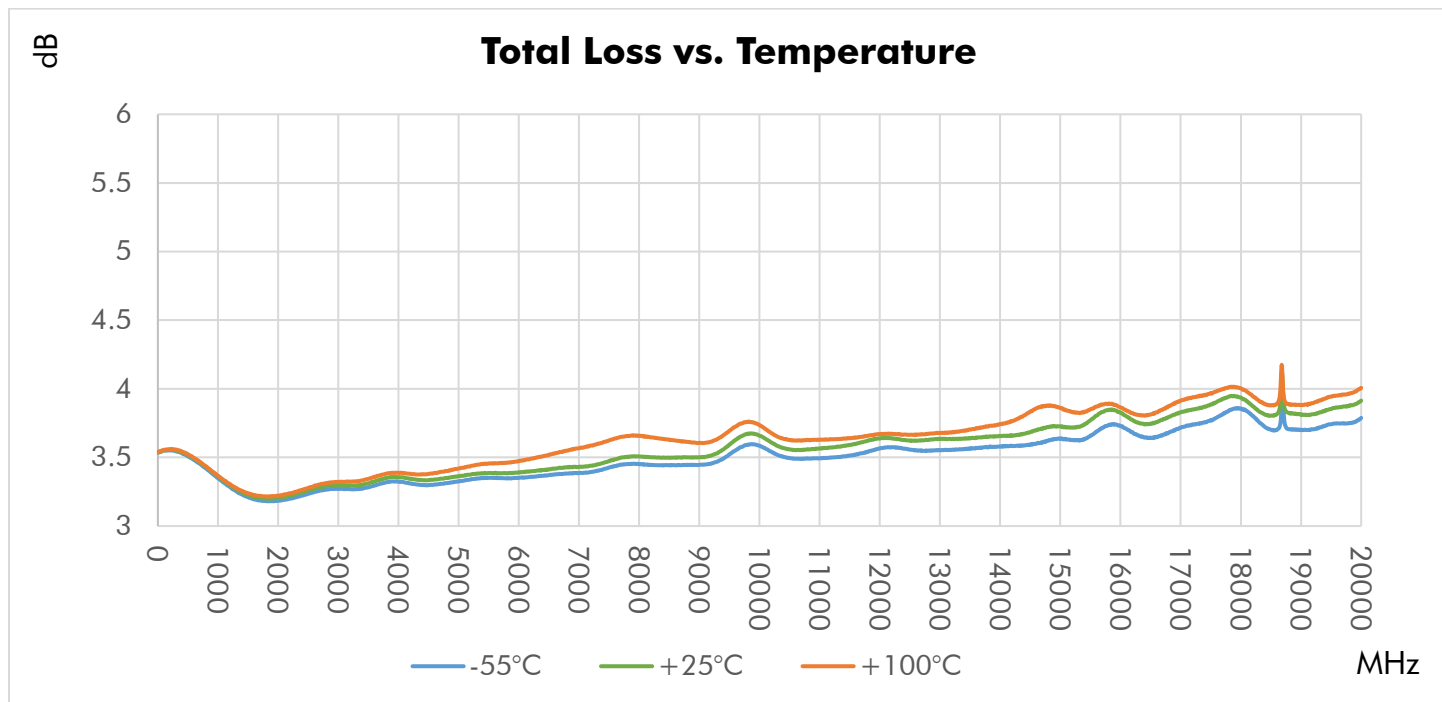
1. With reference to average.
2. All output ports should be terminated in a 50-ohm load with 1.2:1 max VSWR.
3. Electrical specifications are tested at +25 °C.
4. To the best of our knowledge at the time of publication.

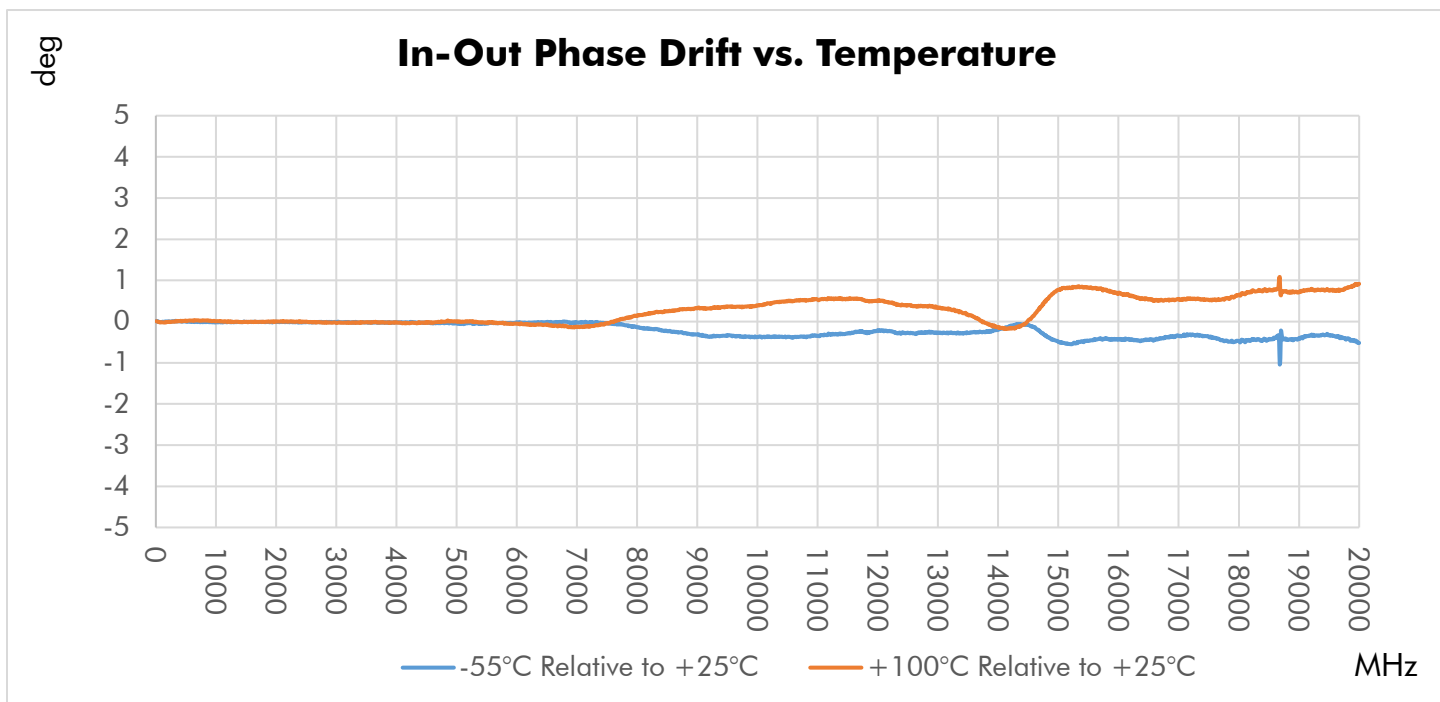
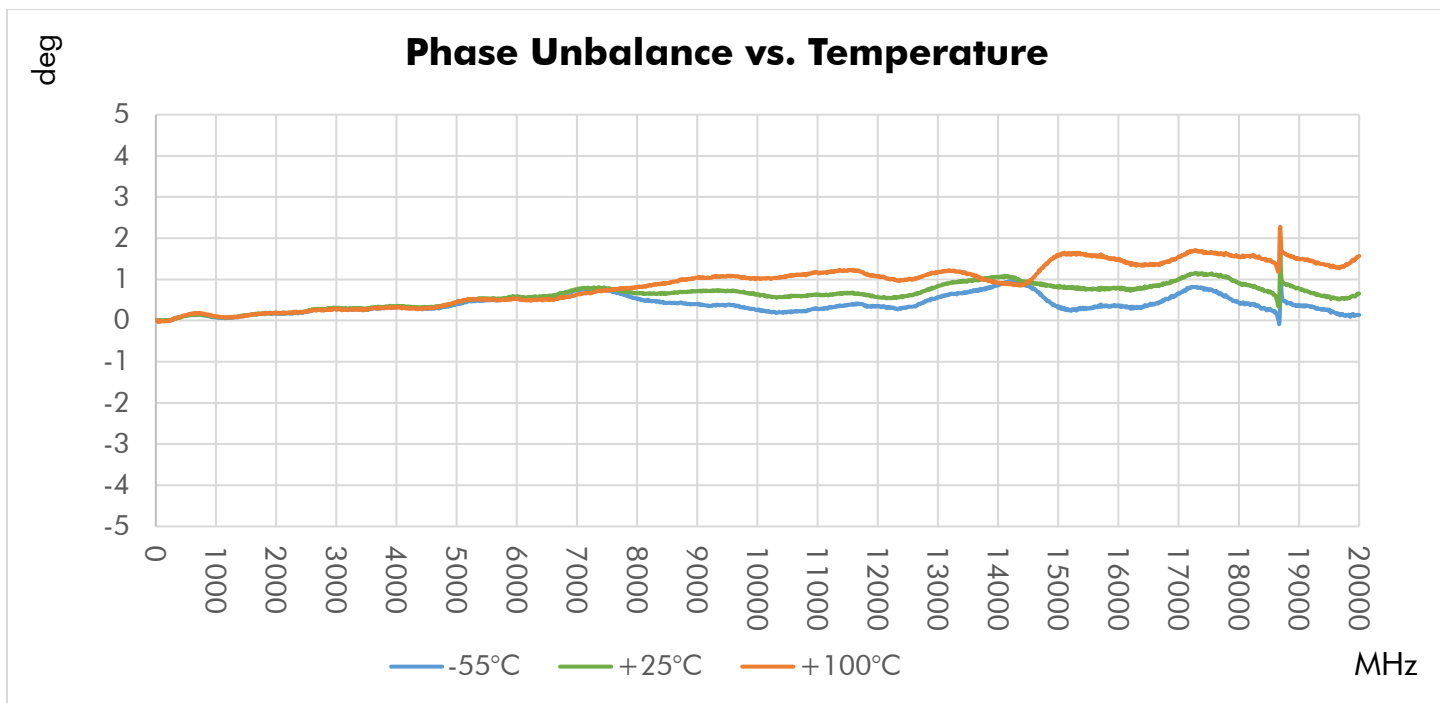
Typical Performance at +25 °C

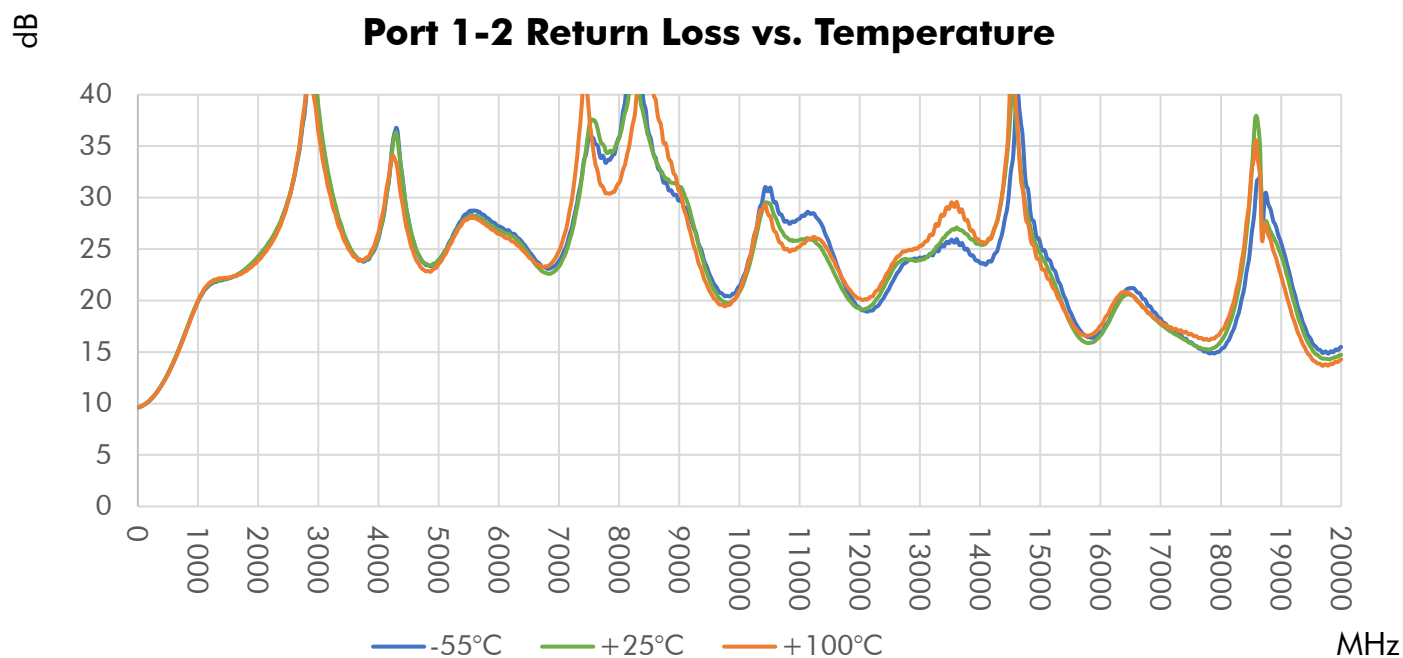
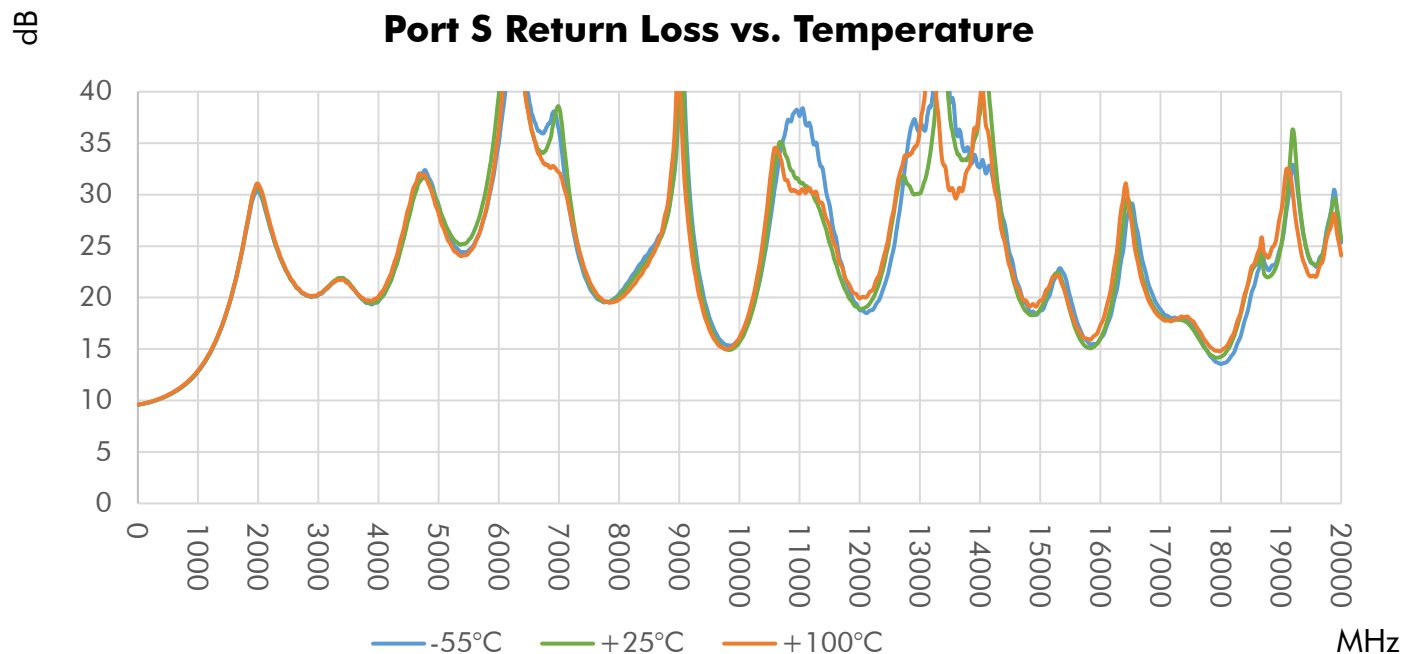




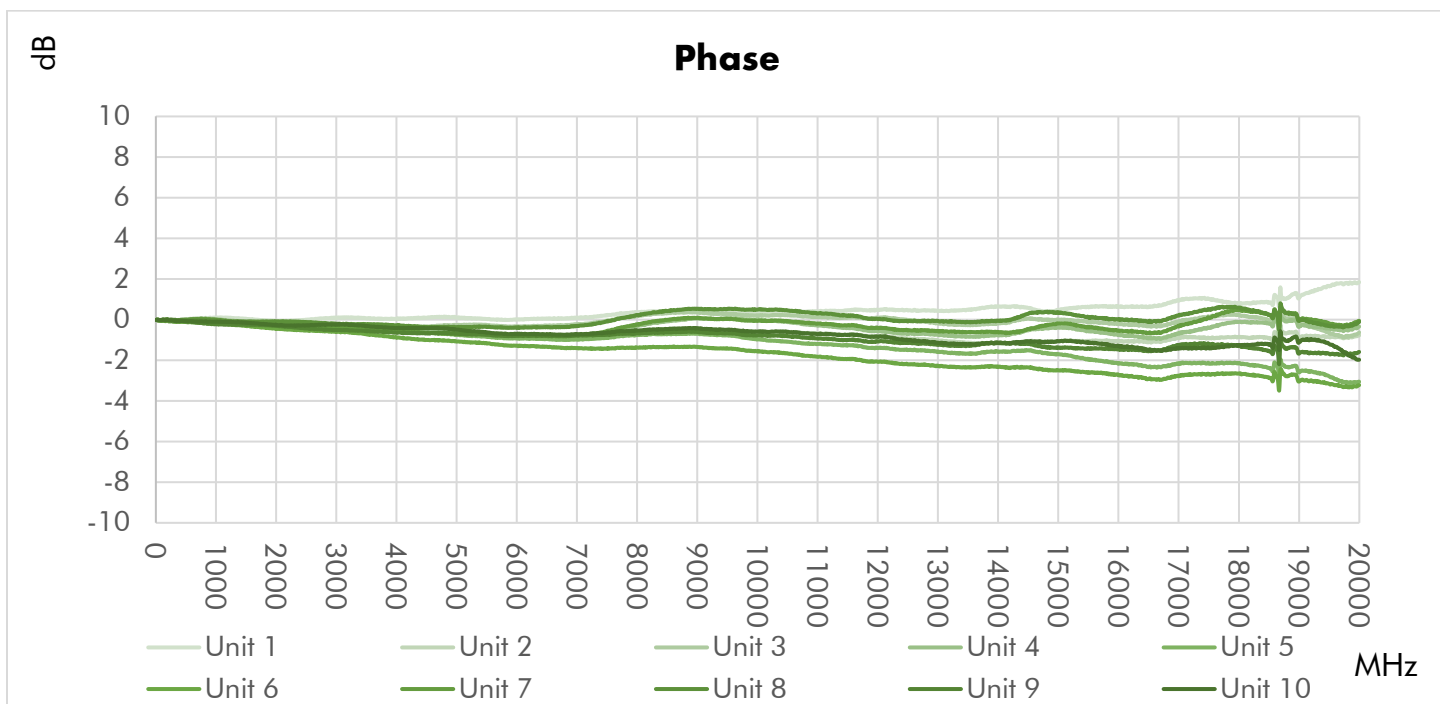
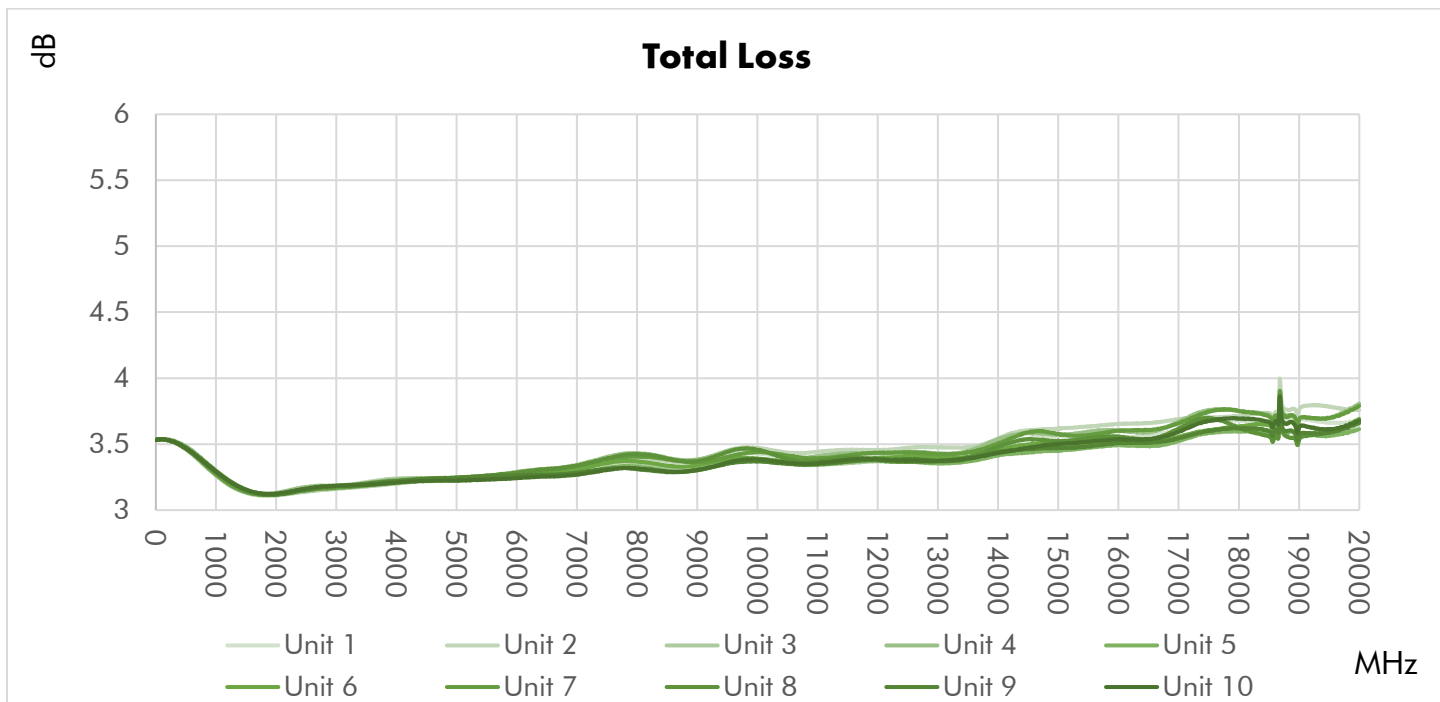
Typical Performance Over Temperature

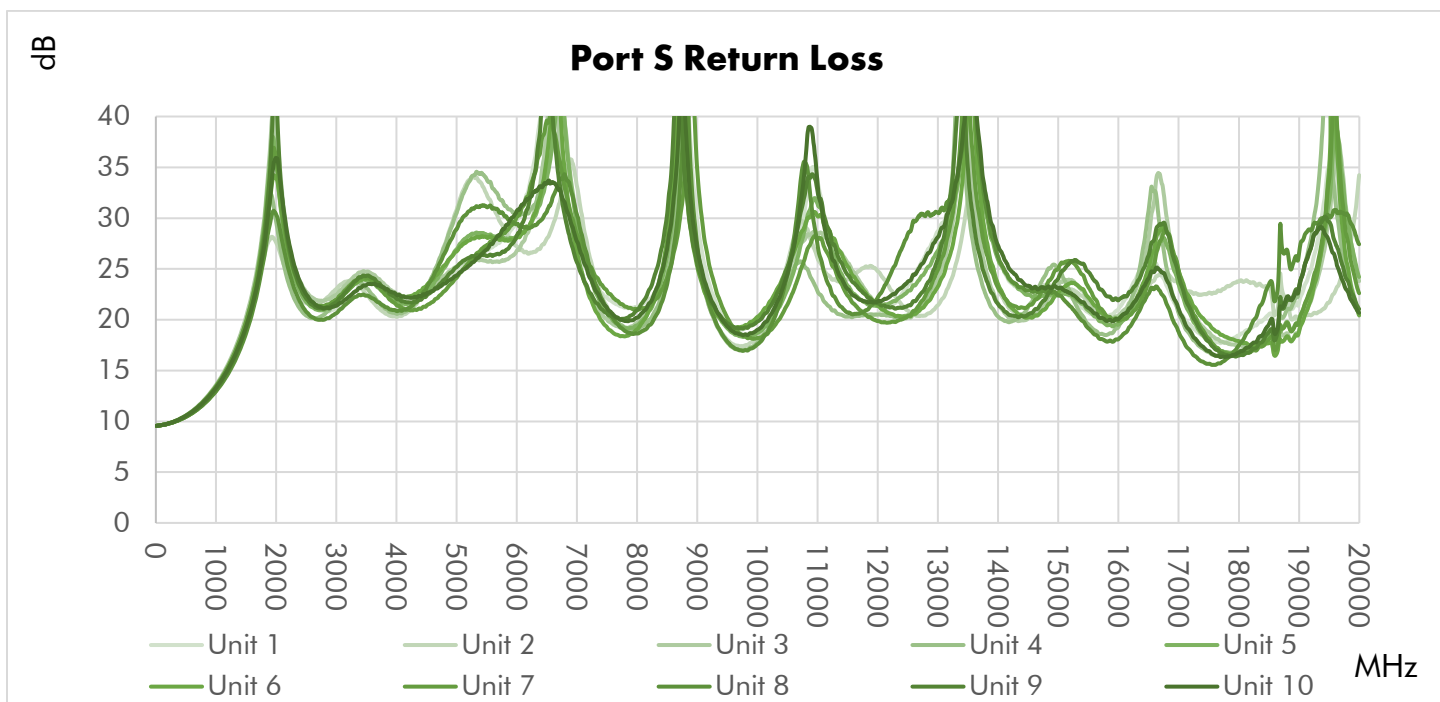
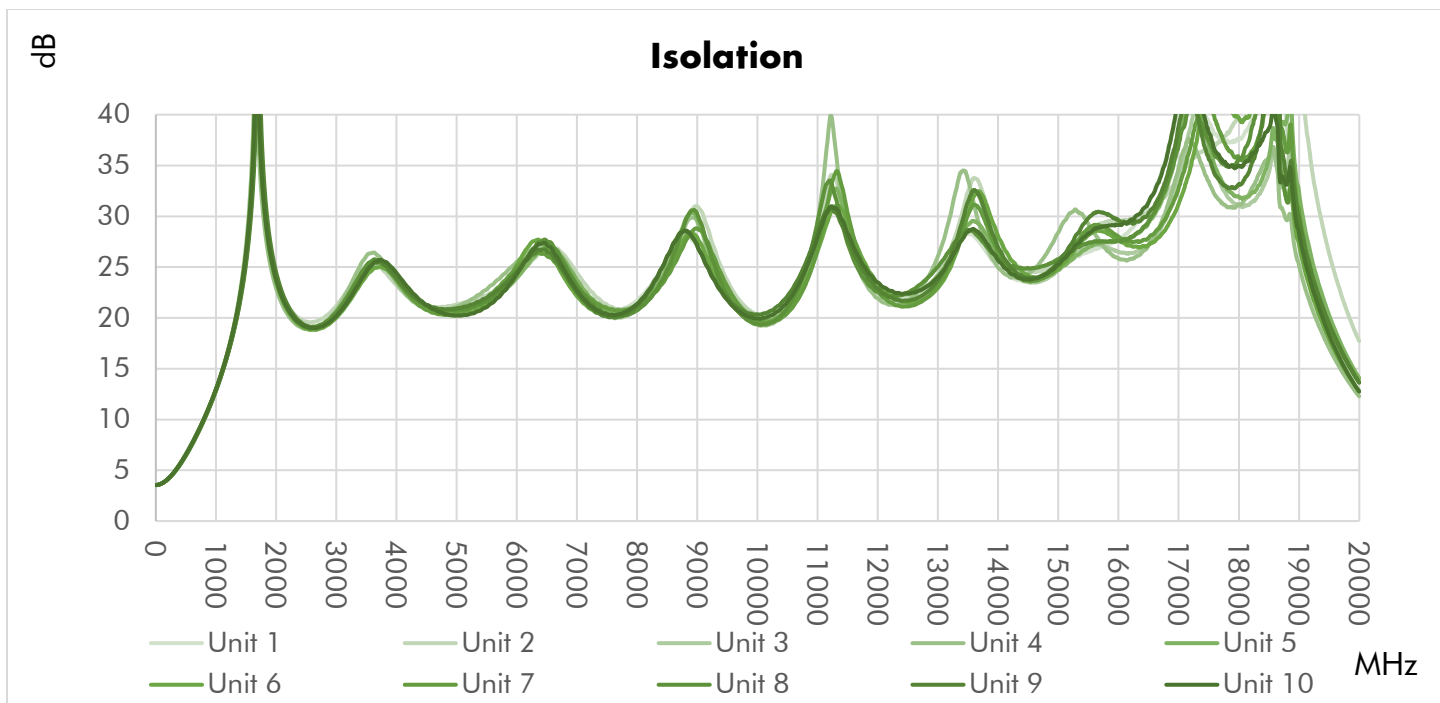






Repeatability in Production

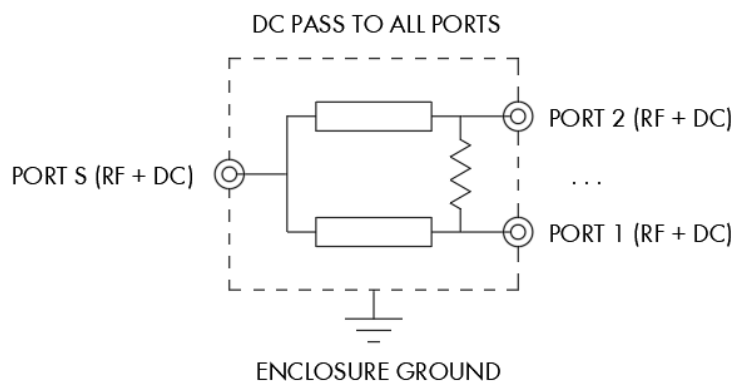




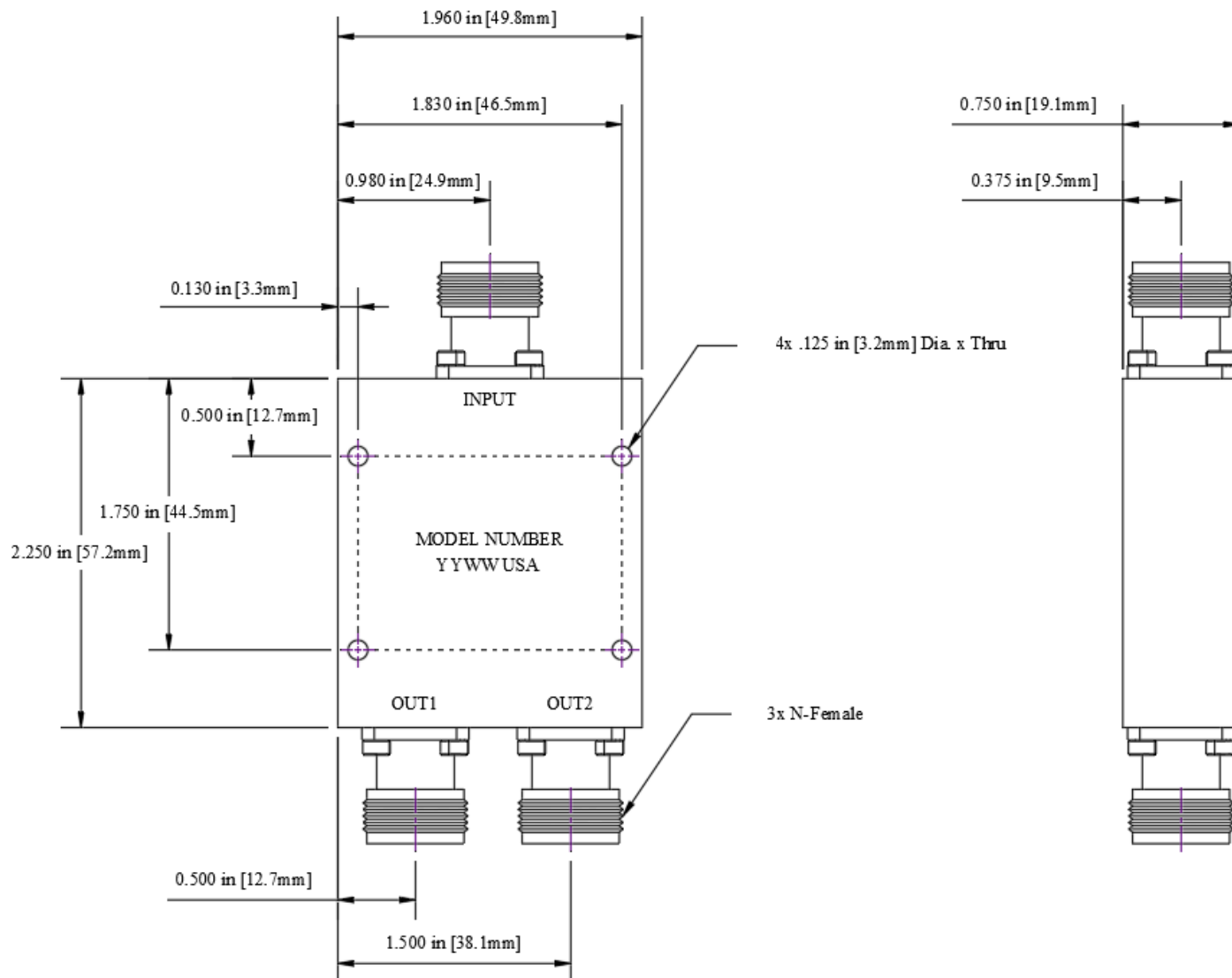
Typical Performance Data

Frequency (MHz)	Return Loss (dB)			Total Loss (dB)		Isolation (dB)
	Port S	Port 1	Port 2	S-1	S-2	
2000	27.9	24.5	24.9	3.1	3.1	24.8
2800	21.9	32.1	31.2	3.2	3.1	20.3
3600	19.8	24.6	23.8	3.2	3.2	24.3
4400	23.6	39.4	39.2	3.2	3.2	22.4
5200	29.7	25.4	24.7	3.2	3.2	21.3
6000	25.8	32.6	28.6	3.2	3.2	25.7
6800	41.3	31.5	27.3	3.2	3.2	25.4
7600	17.3	29.2	30.0	3.3	3.3	19.9
8400	24.3	52.4	40.6	3.3	3.3	23.4
9200	20.1	23.4	22.6	3.2	3.3	22.2
10000	18.5	25.5	25.4	3.4	3.4	21.8
10800	36.1	26.1	27.2	3.3	3.4	23.3
11600	19.9	23.9	26.1	3.4	3.4	24.6
12400	22.5	34.9	38.1	3.4	3.4	20.2
13200	33.6	35.9	30.9	3.3	3.4	29.0
14000	24.3	32.5	28.0	3.4	3.5	28.5
14800	26.4	28.5	26.5	3.4	3.5	22.7
15600	18.7	23.4	24.7	3.4	3.6	29.8
16400	40.8	24.7	26.5	3.4	3.6	25.5
17200	19.2	19.2	19.6	3.5	3.6	32.3
18000	20.6	22.9	23.5	3.5	3.7	34.5

Simplified Electrical Schematic



Outline Dimensions



Outline drawing: OL-2182-N

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

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

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