

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

WM2PD-2-18-S



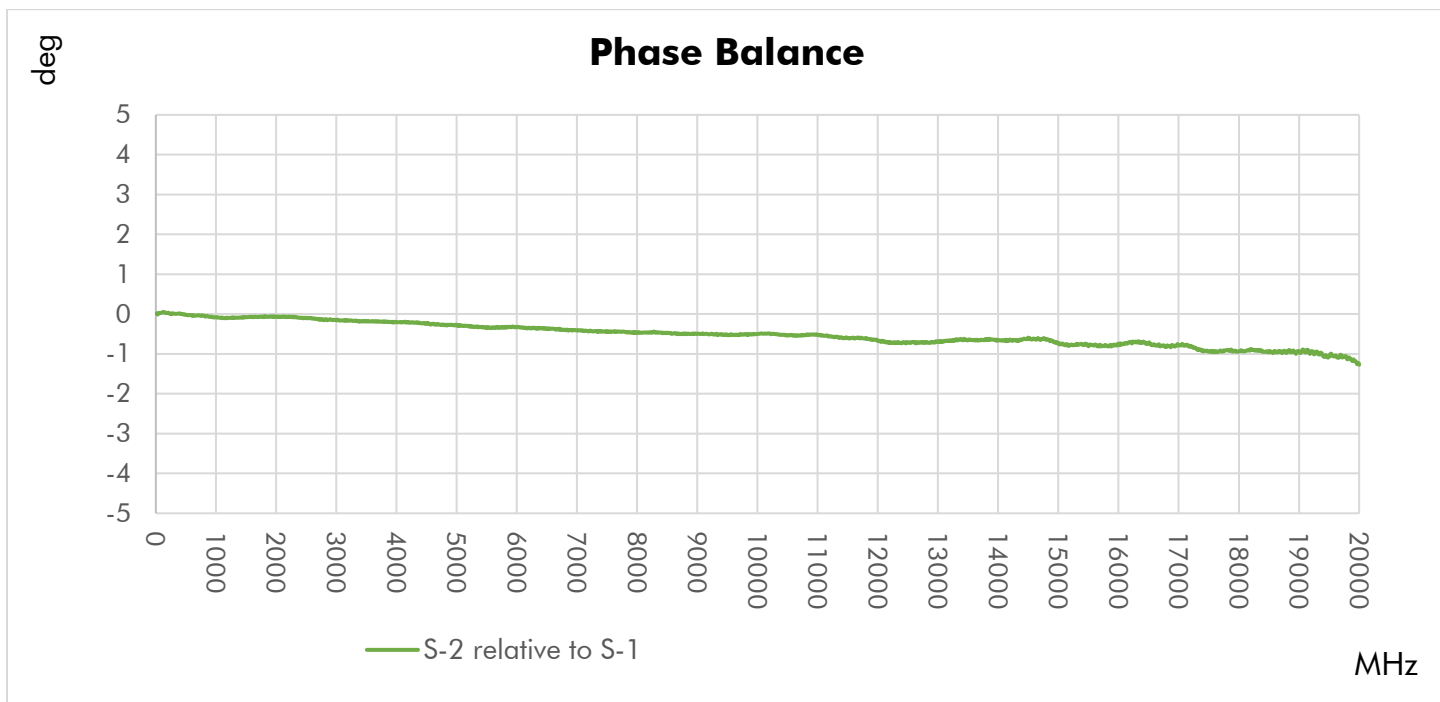
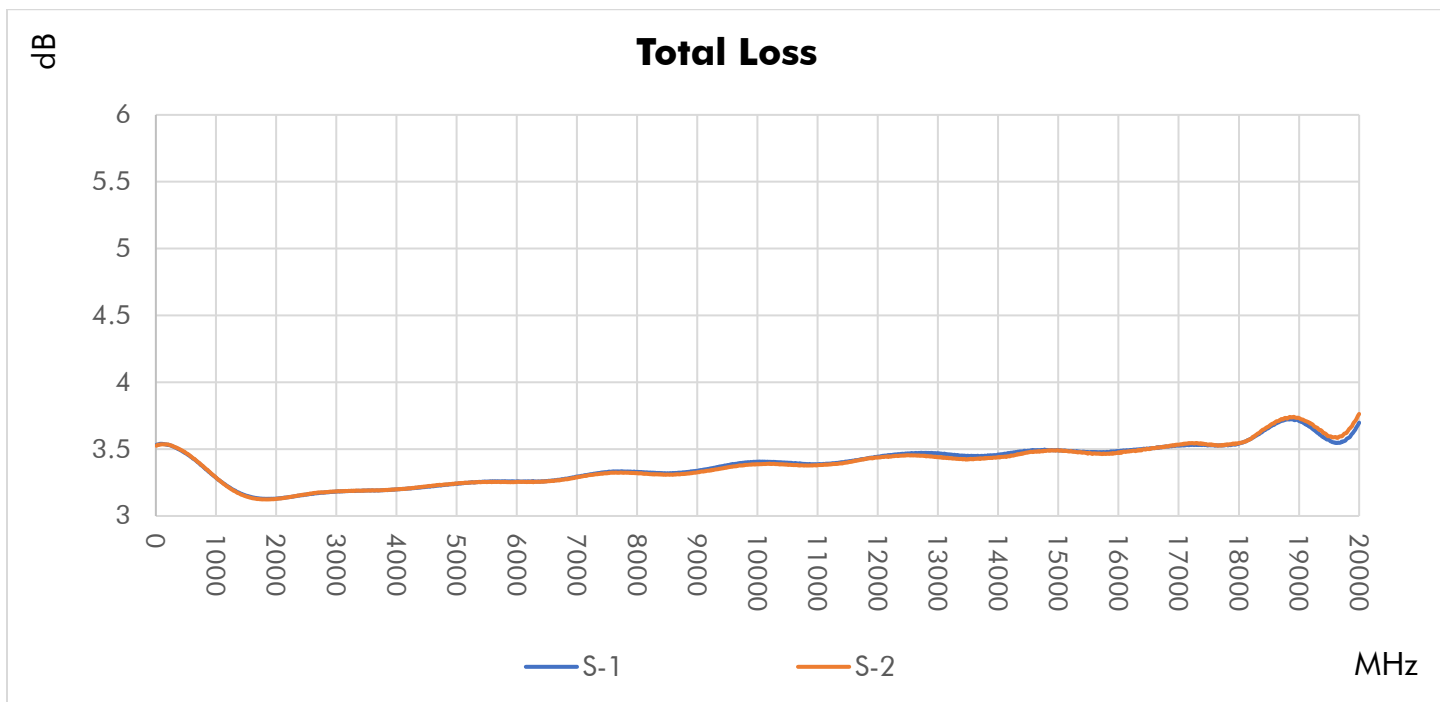
Parameter	Low Band	Mid Band	High Band	Unit
Frequency Range	2000-8000	8000-12400	12400-18000	MHz
Impedance	50			Ω
Return Loss (Port S)	16	14	13	dB, min.
Return Loss (Port 1-2)	19	18	14	dB, min.
Insertion Loss above 3.01 dB	0.5	0.7	1.0	dB, max.
Isolation	16	16	16	dB, min.
Amplitude Unbalance ($\pm$) ¹	0.3	0.4	0.5	dB, max.
Phase Unbalance ($\pm$) ¹	2	4	6	Degree, max.
Input Power (CW) ²	30			W, max.
Combining Power (CW) ²	0.05			W/port, max.
Internal Dissipation	0.5			W, max.
DC Current	0.3			A/port, max.

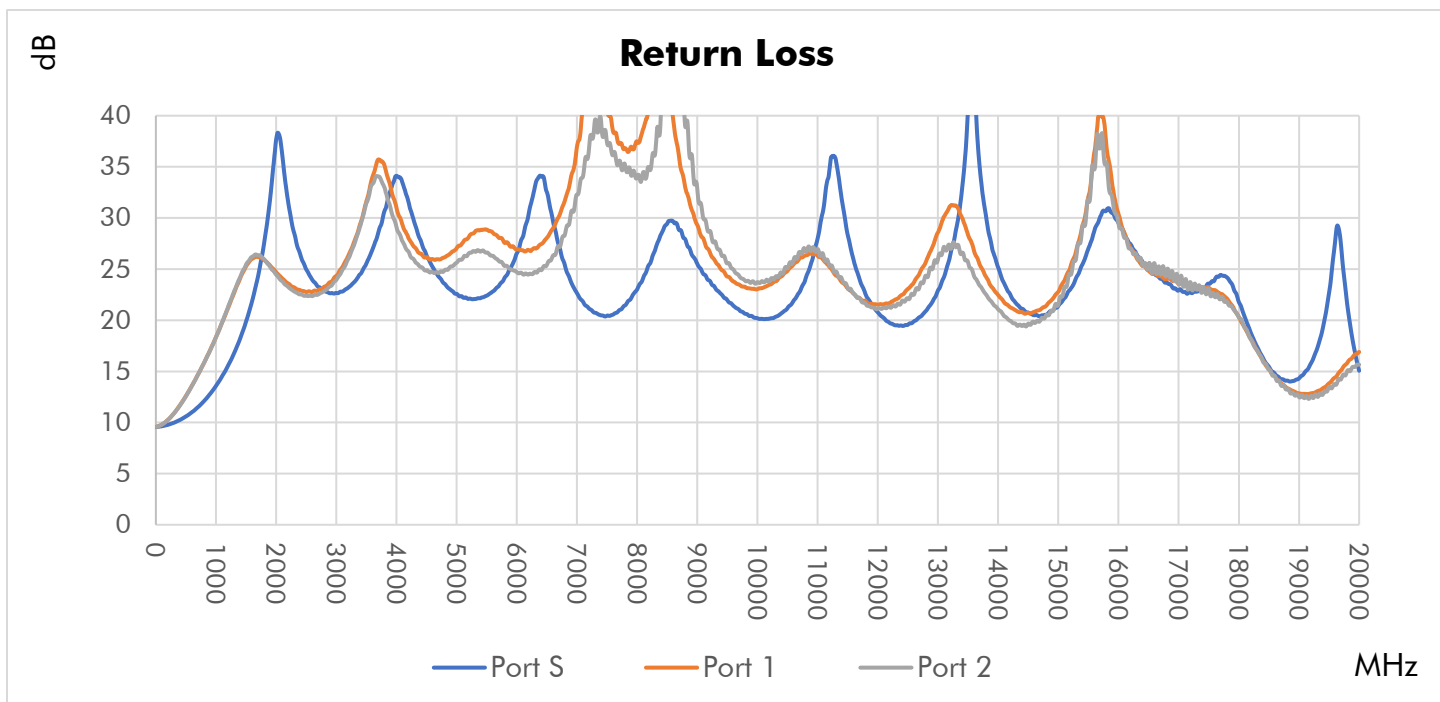
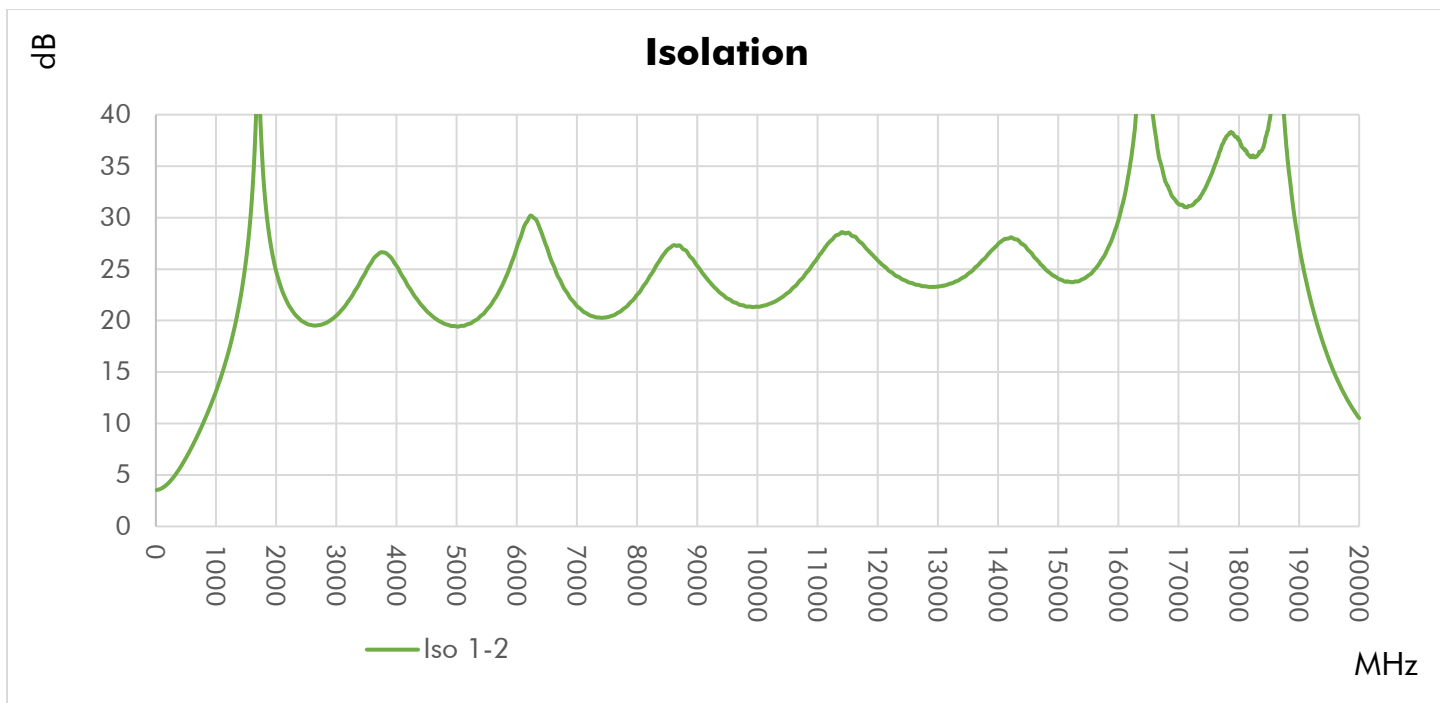
Connector Interface	SMA Female
Operating Temperature ³	-55 to +85 °C
Storage Temperature	-55 to +100 °C
Nominal Weight	43 g (1.5 oz)
Operating Humidity	10-90% (non-condensing)
Operating Environment	Indoor Use Only
HTSUS Code	8548.00.0000
ECCN	EAR99

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

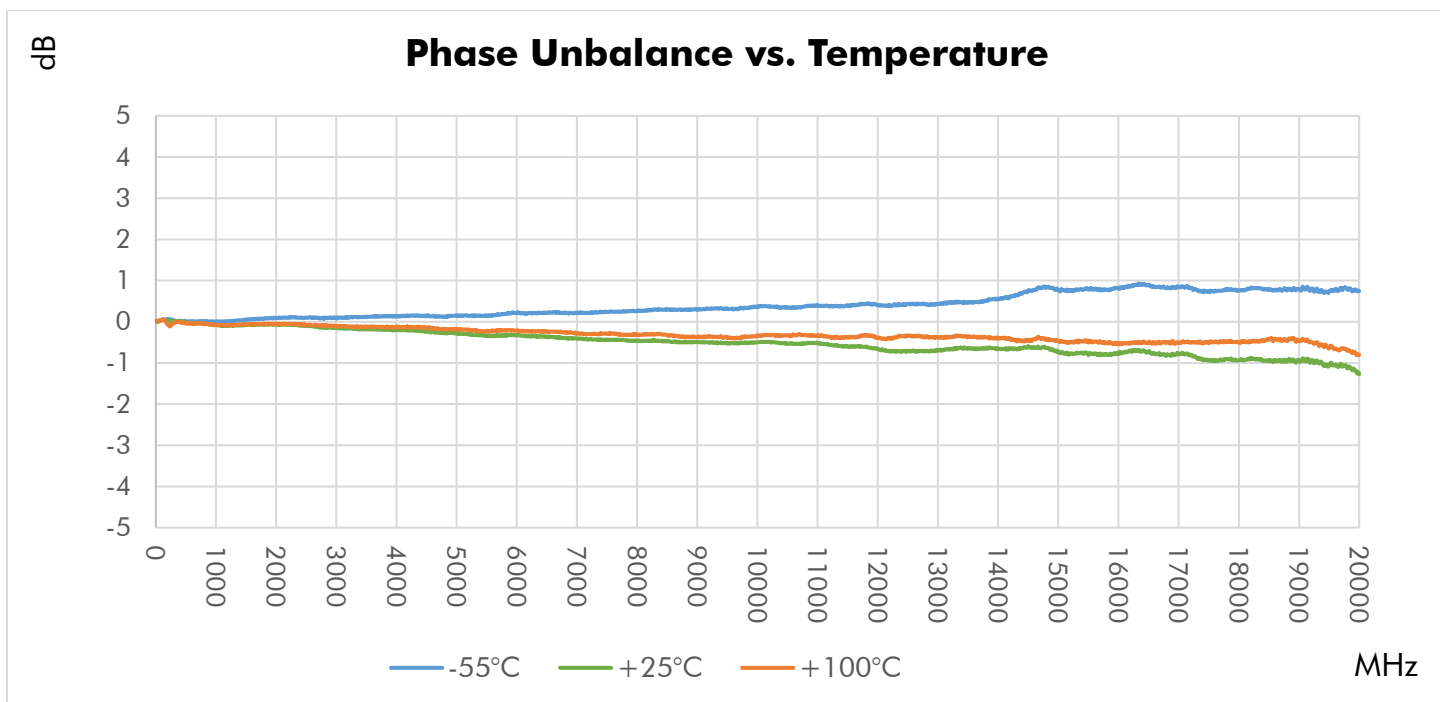
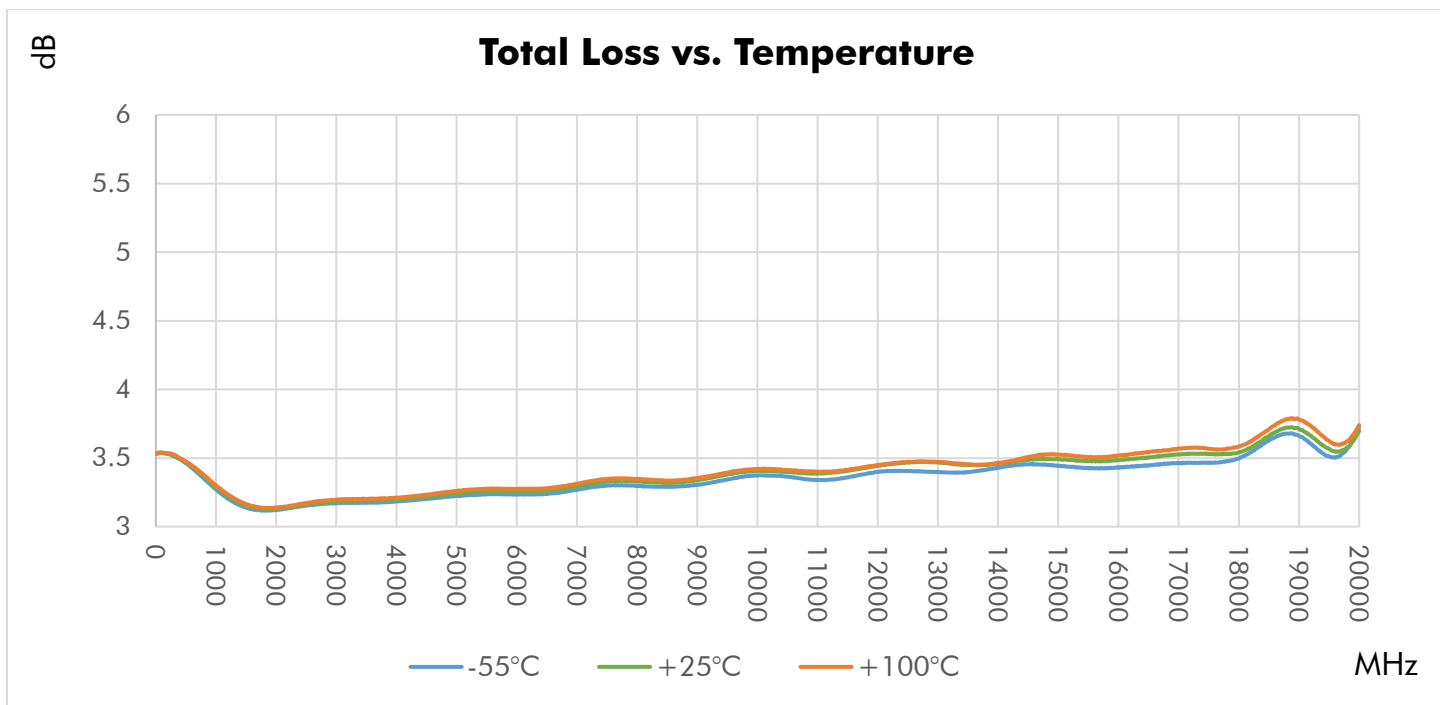
1. With reference to average.
2. All output ports should be terminated in a 50-ohm load with 1.2:1 max VSWR.
3. Electrical specifications are tested at +25 °C.
4. To the best of our knowledge at the time of publication.

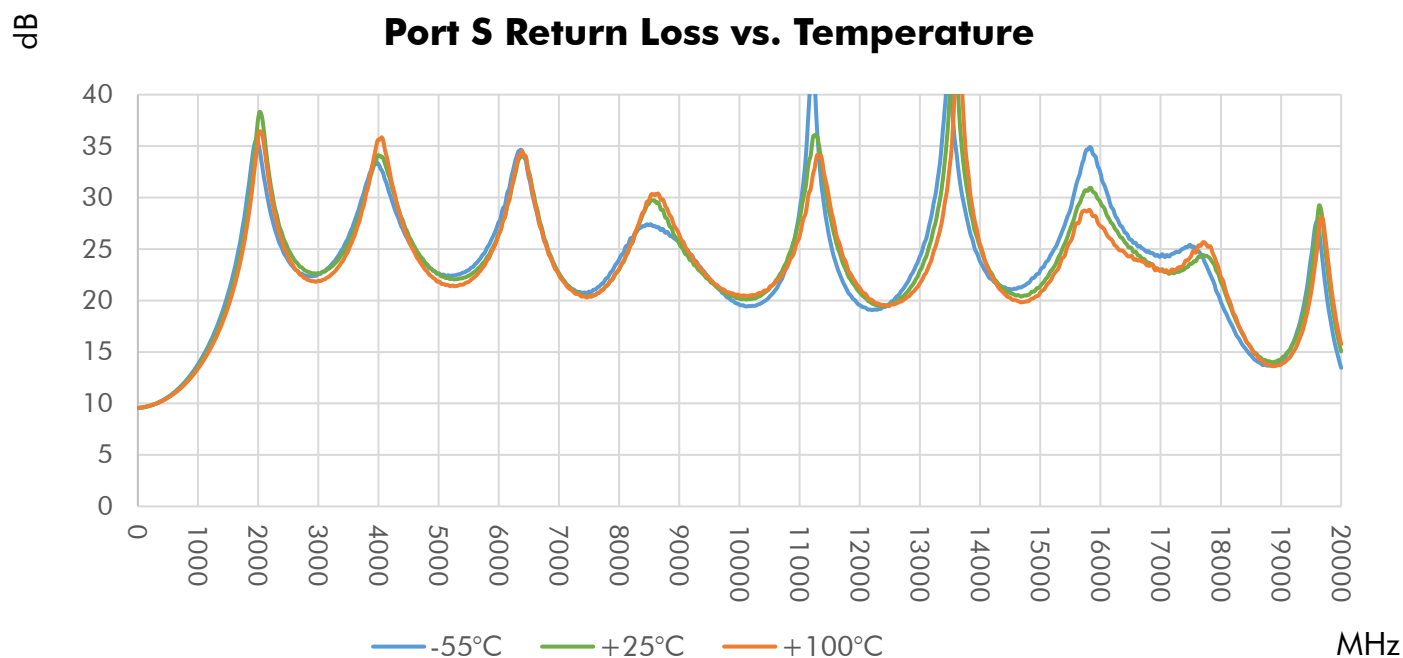
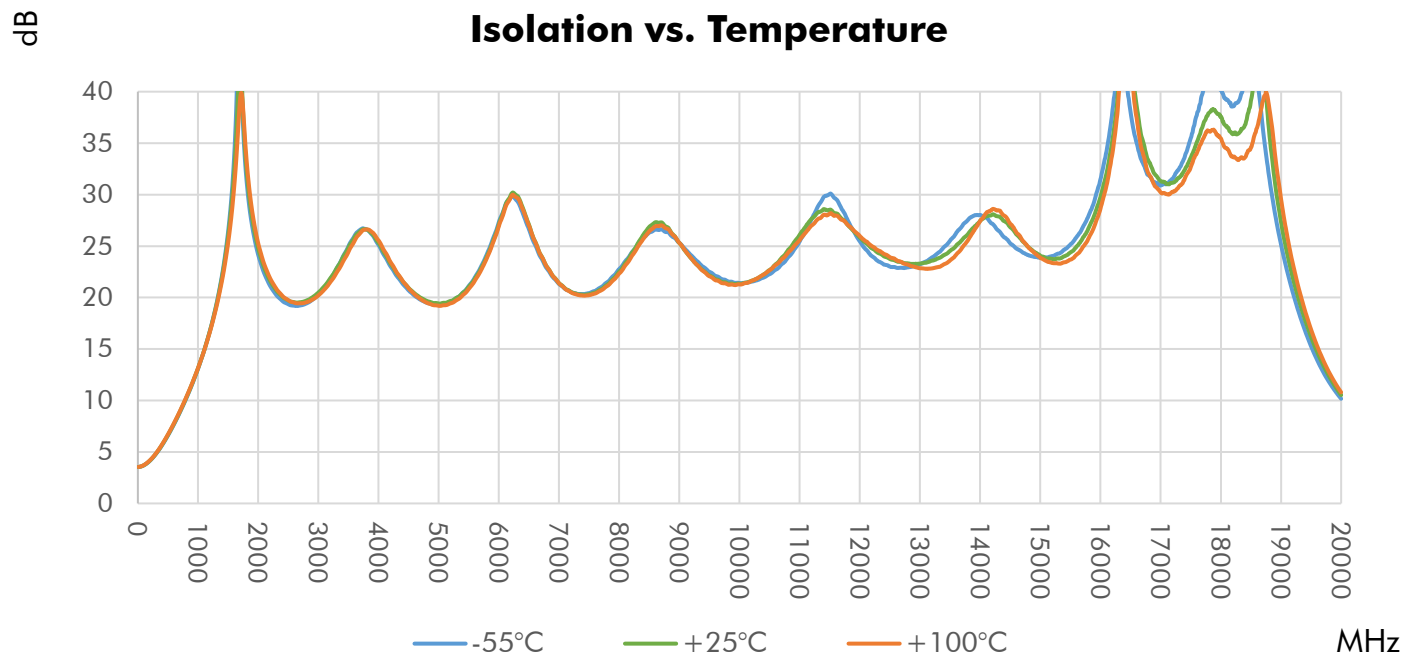
Typical Performance at +25 °C



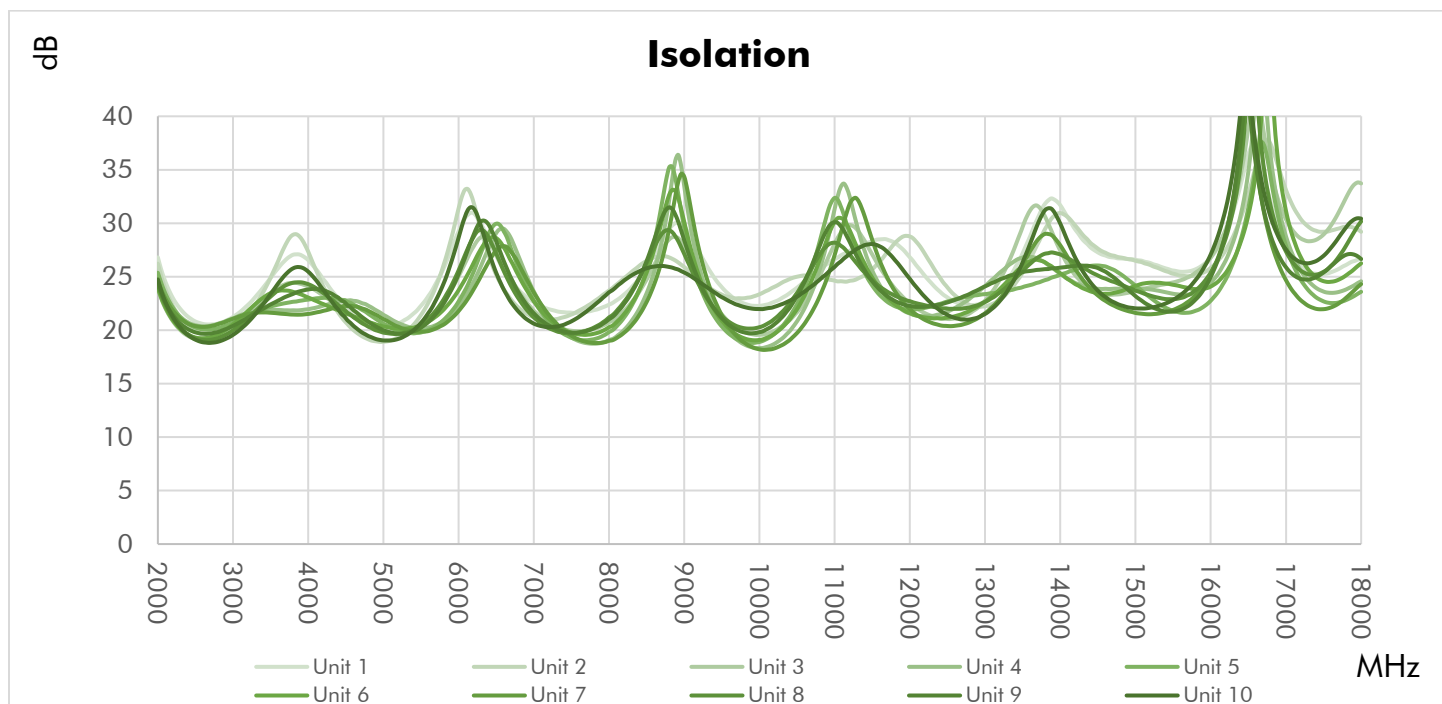
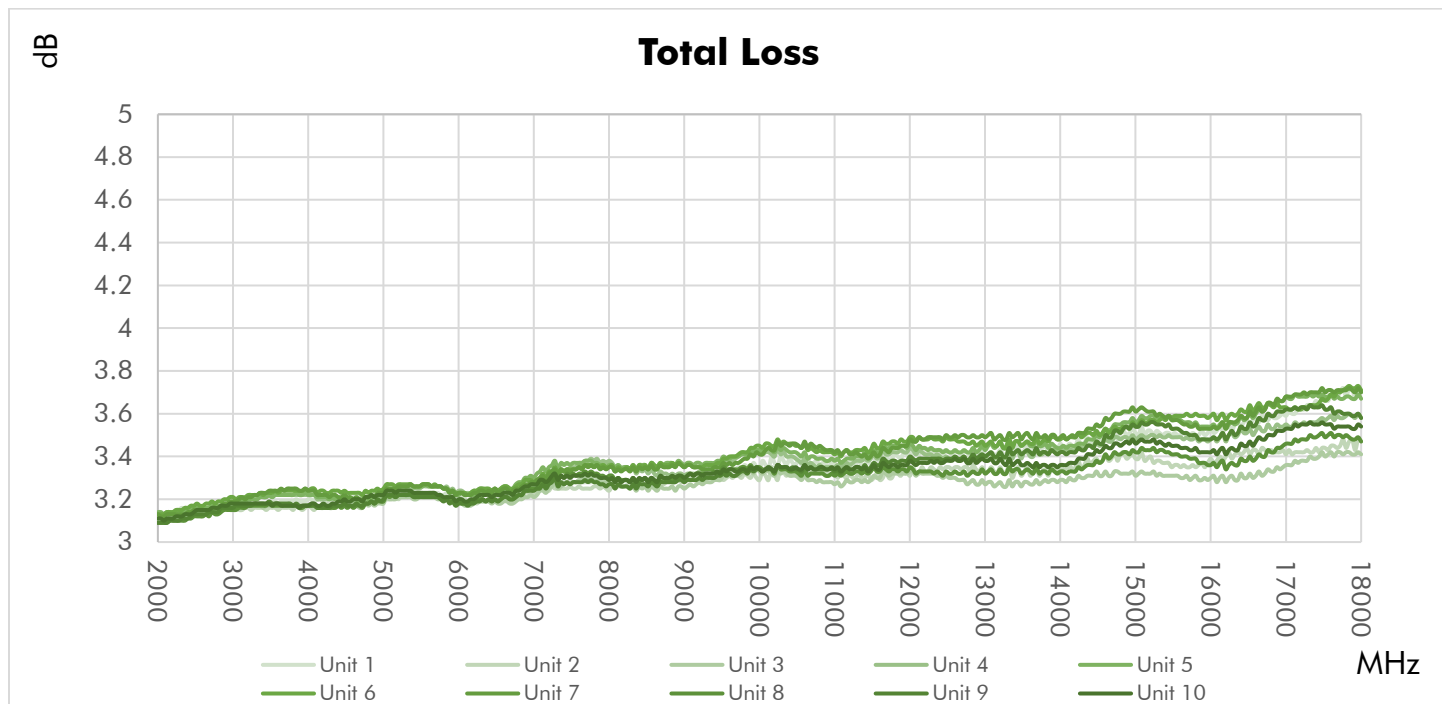


Typical Performance Over Temperature





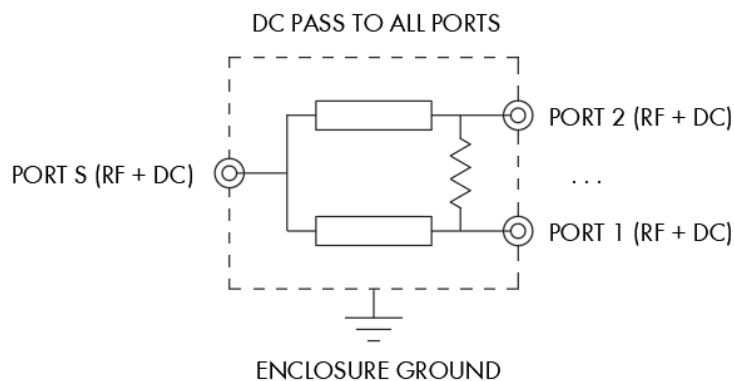
Repeatability in Production



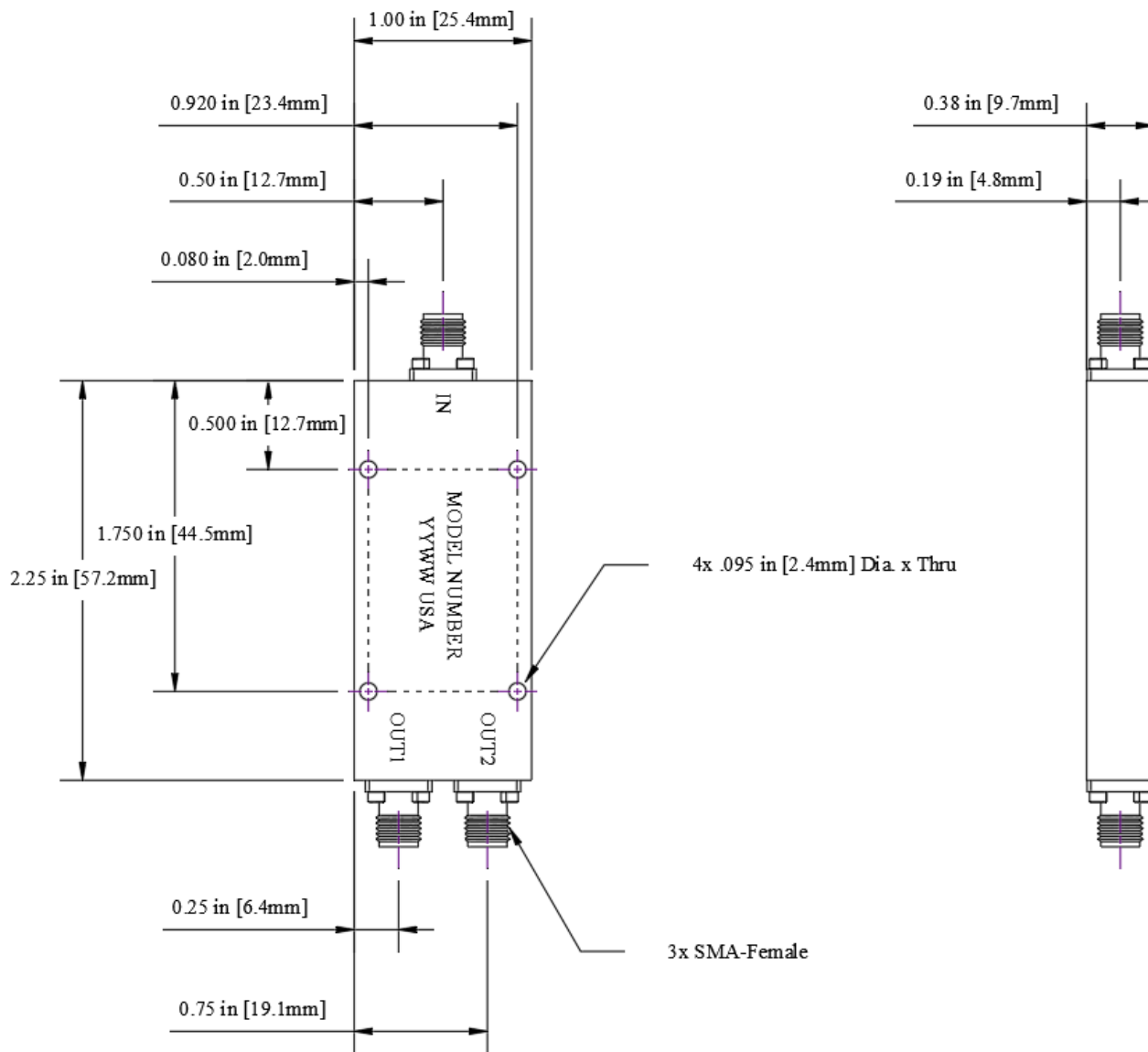
Typical Performance Data

Frequency (MHz)	Return Loss (dB)			Total Loss (dB)		Isolation (dB)
	Port S	Port 1	Port 2	S-1	S-2	
2000	34.3	25.2	24.7	3.1	3.1	25.9
2800	21.9	28.2	28.4	3.2	3.2	20.1
3600	23.5	34.1	35.1	3.2	3.2	25.3
4400	23.2	37.2	33.3	3.2	3.2	22.5
5200	21.3	34.1	37.1	3.2	3.2	19.6
6000	28.9	29.6	31.8	3.2	3.2	29.2
6800	22.8	29.9	32.4	3.3	3.2	22.1
7600	19.2	33.9	35.3	3.3	3.3	20.6
8400	39.1	34.9	35.6	3.2	3.2	26.6
9200	20.7	28.7	27.5	3.3	3.3	24.0
10000	27.5	28.9	28.5	3.3	3.3	22.7
10800	21.6	24.1	23.9	3.3	3.3	26.4
11600	33.2	24.5	24.1	3.3	3.3	23.8
12400	20.9	20.6	19.7	3.3	3.3	25.7
13200	23.8	28.7	26.2	3.3	3.3	22.1
14000	27.4	25.3	24.6	3.4	3.3	30.2
14800	20.4	23.2	23.4	3.4	3.4	27.0
15600	20.9	28.0	29.2	3.4	3.4	22.8
16400	23.4	26.8	29.3	3.5	3.4	28.1
17200	19.9	21.5	22.4	3.5	3.4	25.3
18000	18.6	22.1	21.0	3.5	3.4	25.9

Simplified Electrical Schematic



Outline Dimensions



Outline drawing: OL-2182

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

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

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