

Power Divider, 2-way, 0.5-18GHz, SMA Female

WM2PD-0.5-18-S



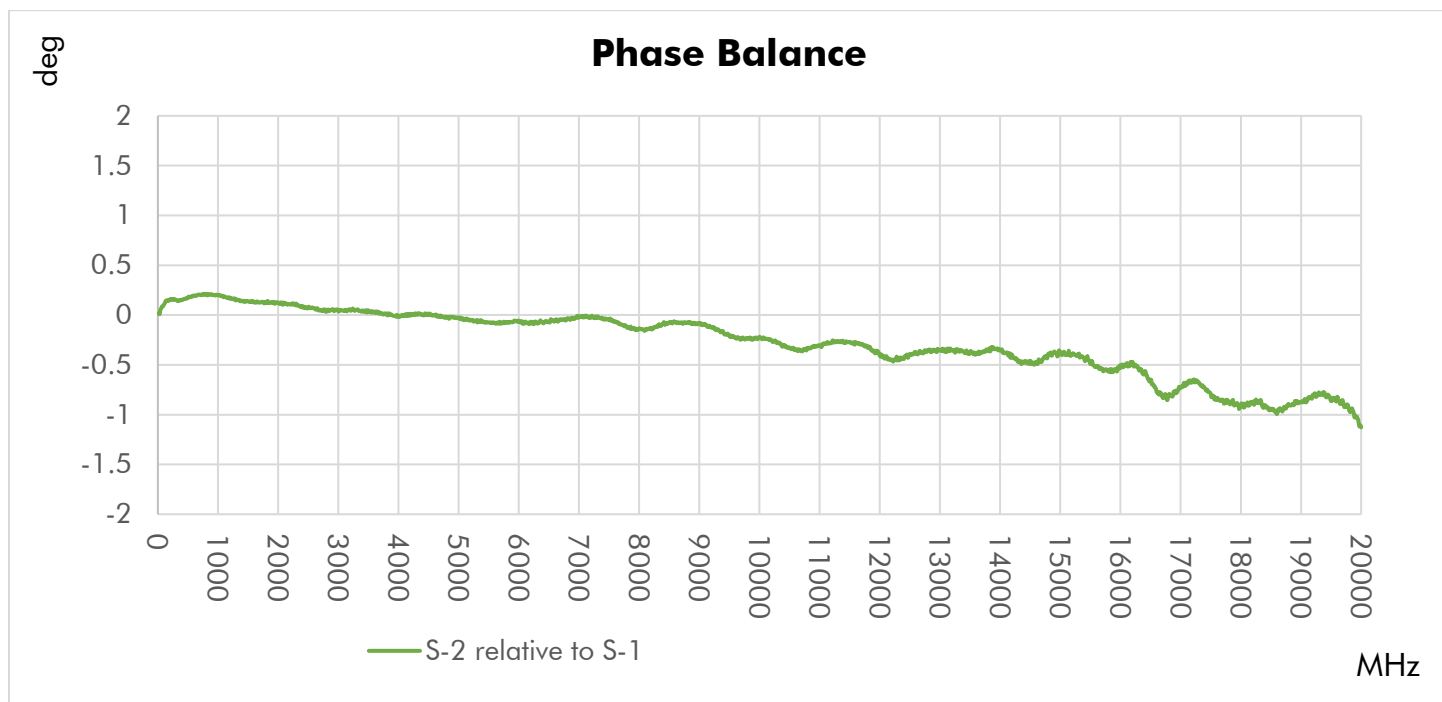
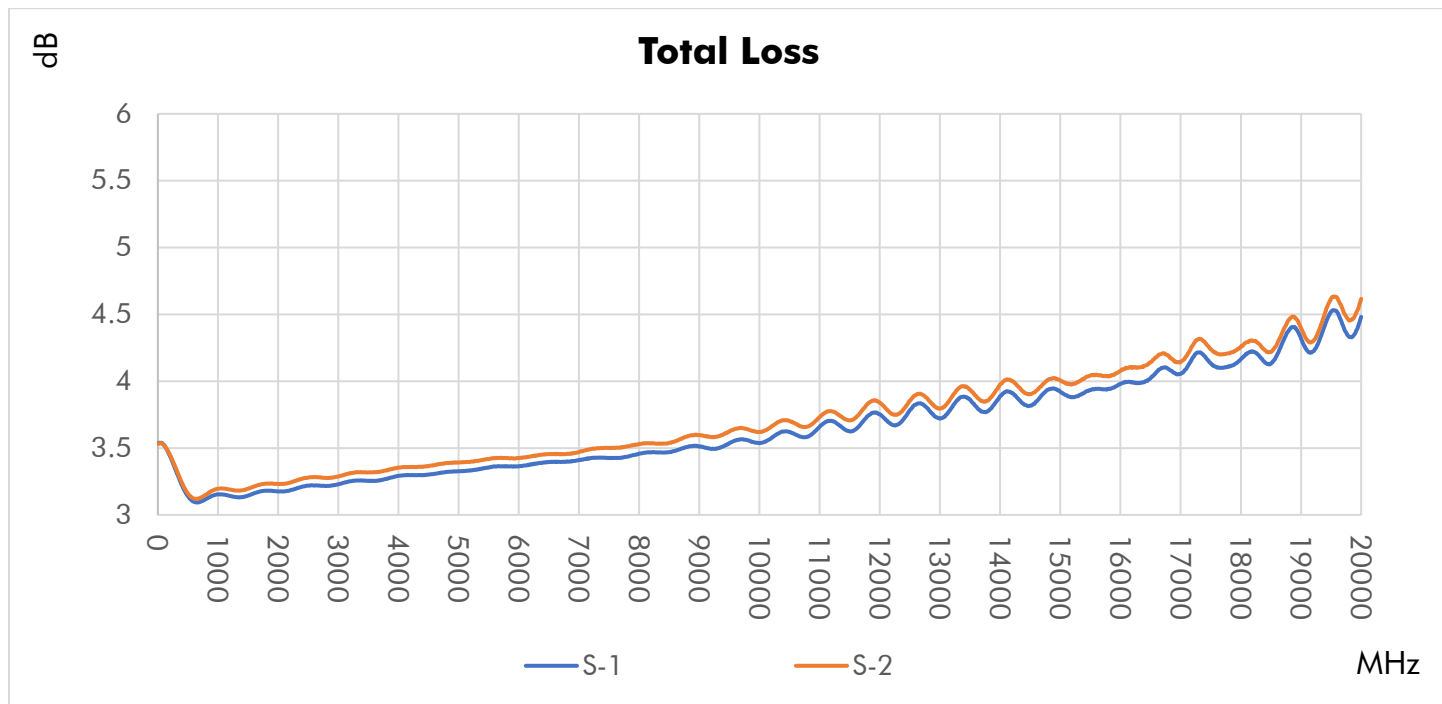
Parameter	Low Band	Mid Band	High Band	Unit
Frequency Range	500-8000	8000-12000	12000-18000	MHz
Impedance	50			Ω
Return Loss (Port S)	12	12	12	dB, min.
Return Loss (Port 1-2)	20	14	12	dB, min.
Insertion Loss above 3.01 dB	0.9	1.4	1.9	dB, max.
Isolation	12 (<700 MHz) 15	15	15	dB, min.
Amplitude Unbalance ($\pm$) ¹	0.3	0.6	0.9	dB, max.
Phase Unbalance ($\pm$) ¹	4	7	10	Degree, max.
Input Power (CW) ²	20			W, max.
Combining Power (CW) ²	0.075			W/port, max.
Internal Dissipation	1.5			W, max.
DC Current	0.3			A/port, max.

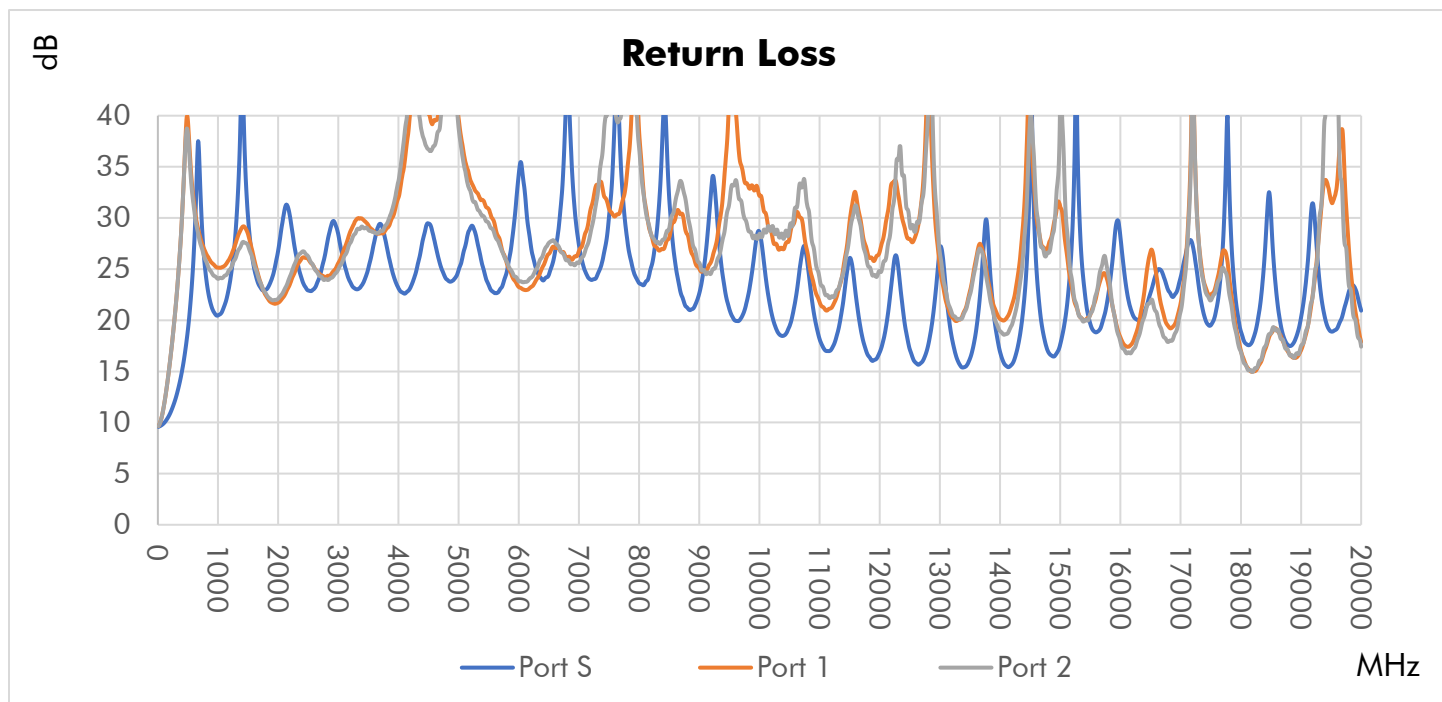
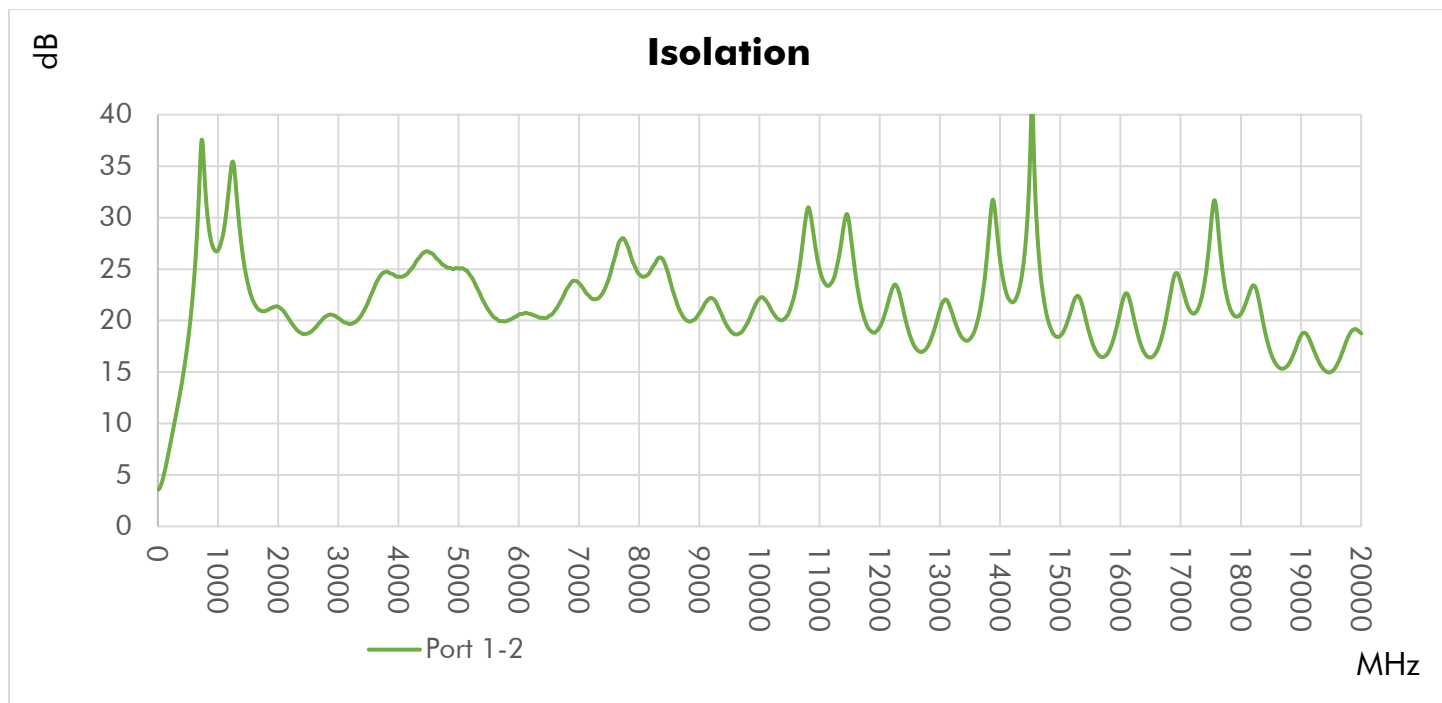
Connector Interface	SMA Female
Operating Temperature ³	-55 to +85 °C
Storage Temperature	-55 to +100 °C
Nominal Weight	105 g (3.7 oz)
Operating Humidity	10-90% (non-condensing)
Operating Environment	Indoor Use Only
HTSUS Code	8548.00.0000
ECCN	EAR99

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

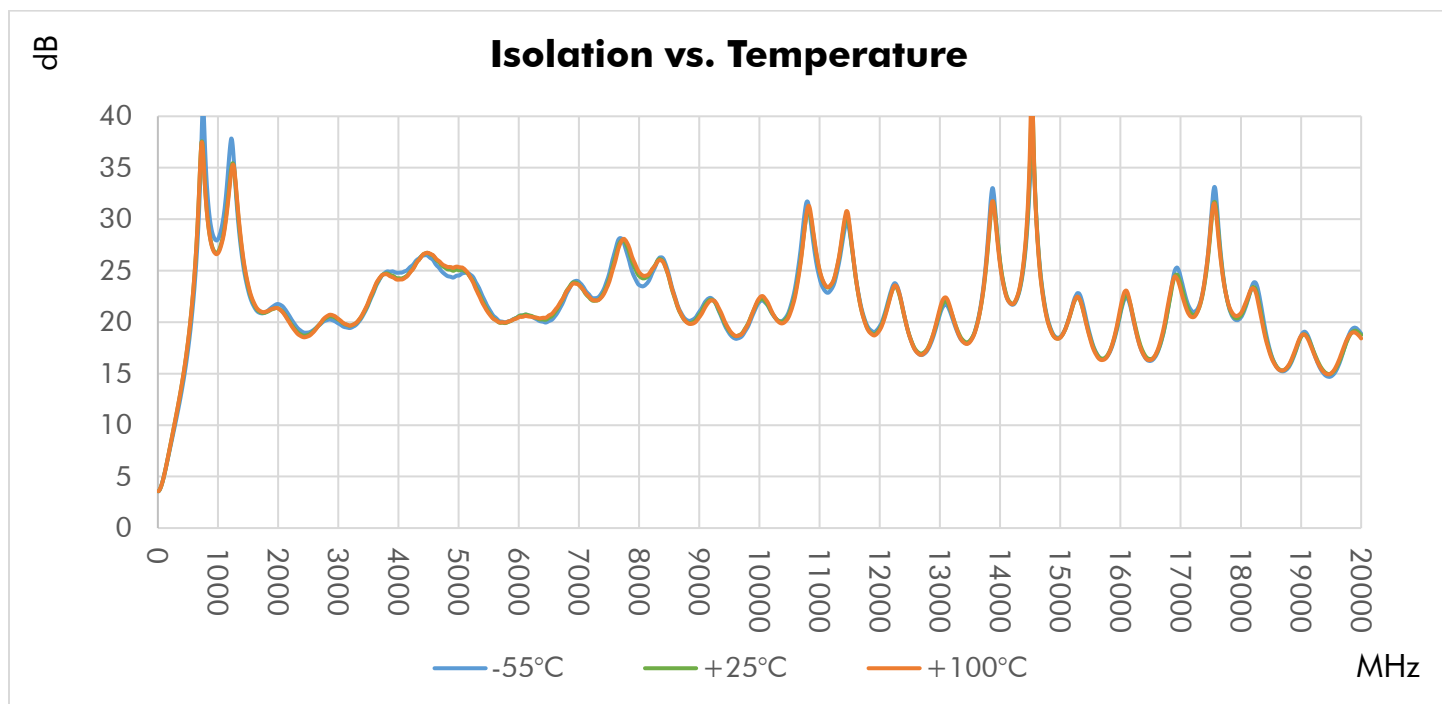
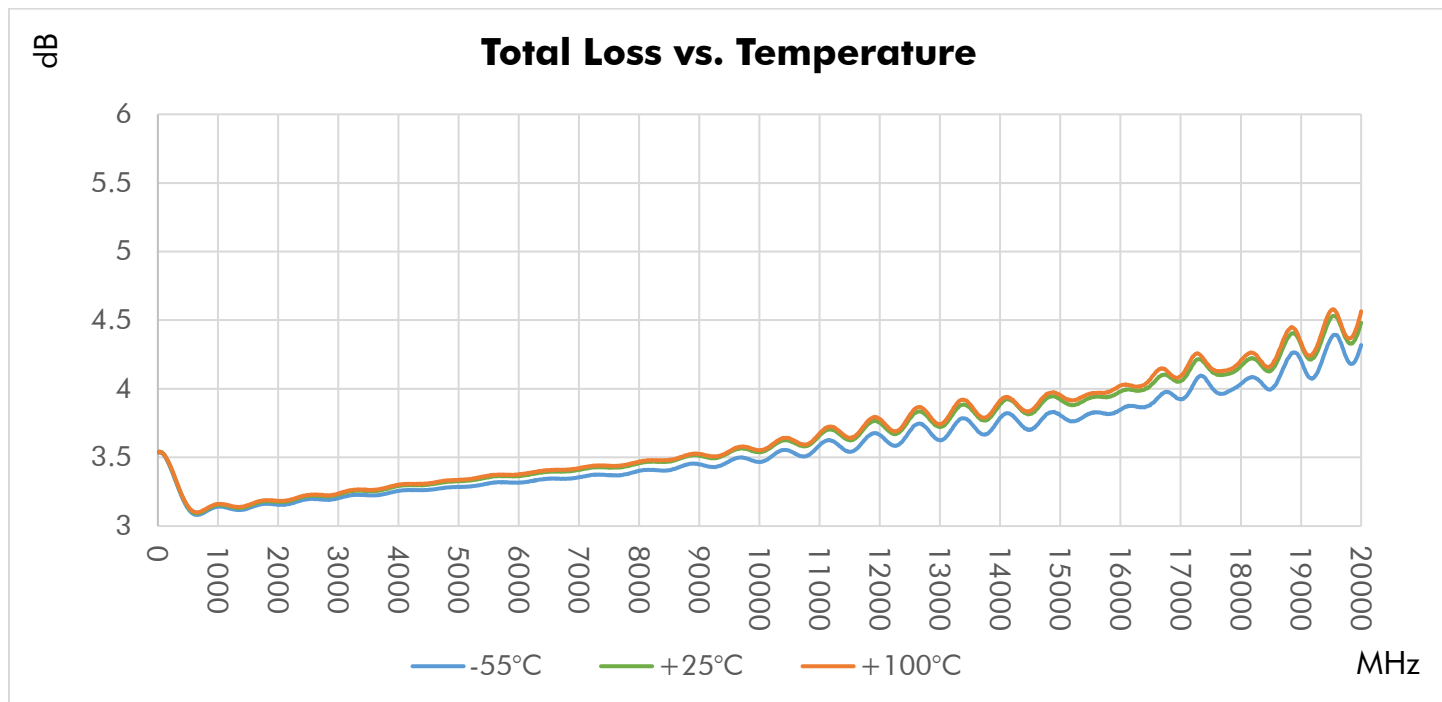
1. With reference to average.
2. All output ports should be terminated in a 50-ohm load with 1.2:1 max VSWR.
3. Electrical specifications are tested at +25 °C.
4. To the best of our knowledge at the time of publication.

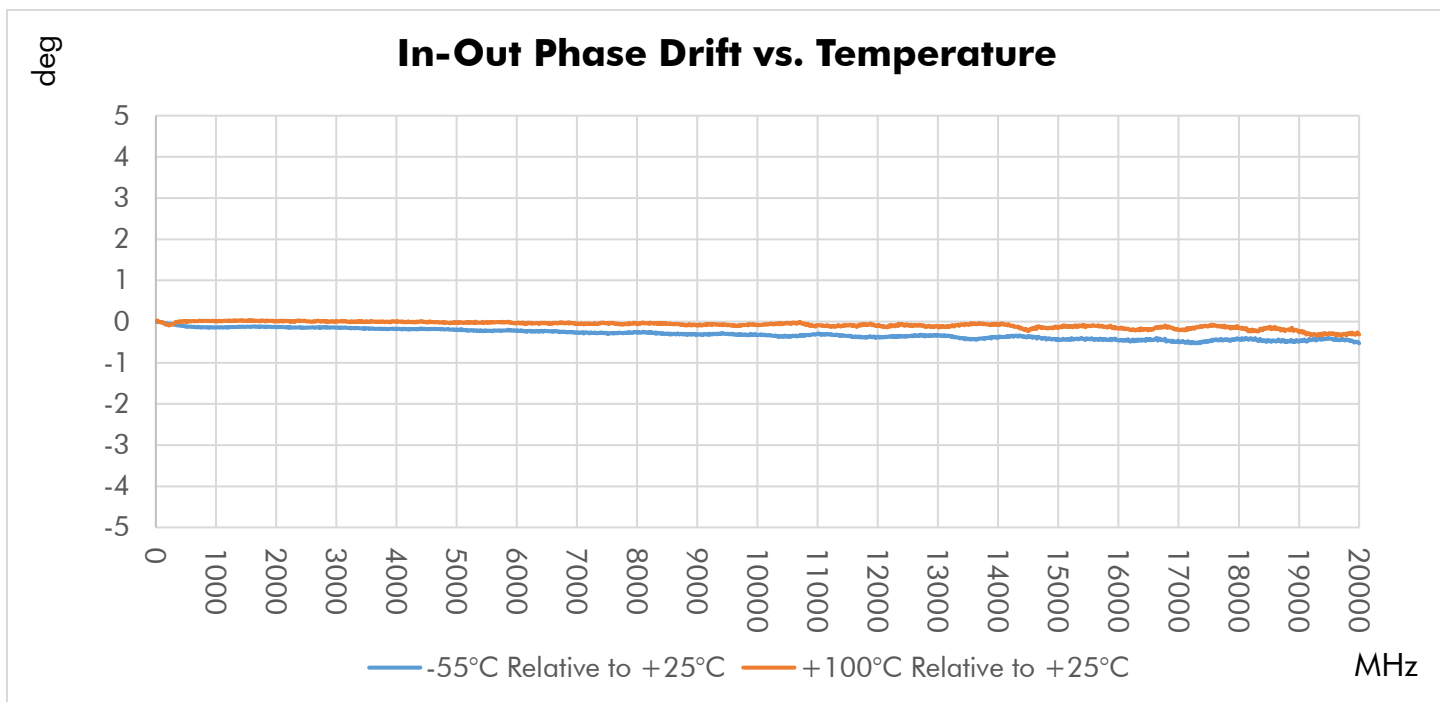
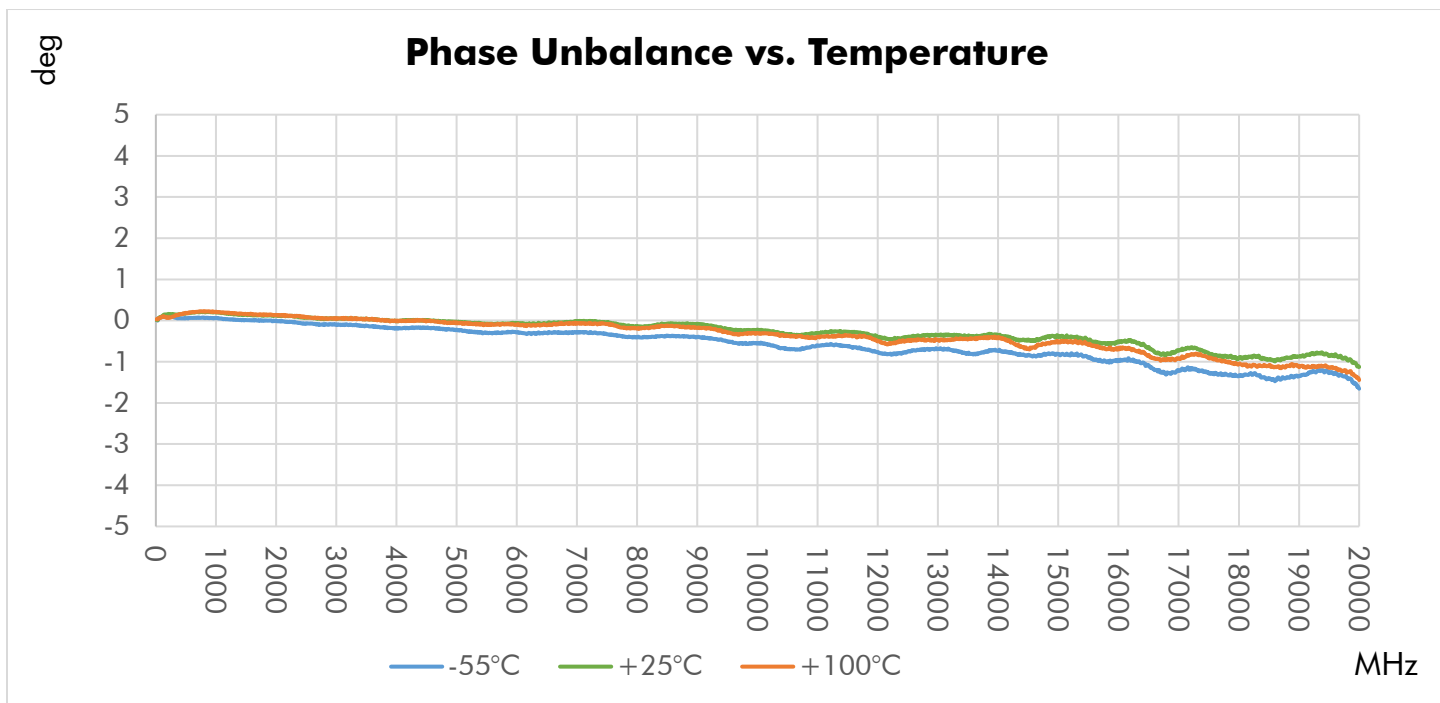
Typical Performance at +25 °C



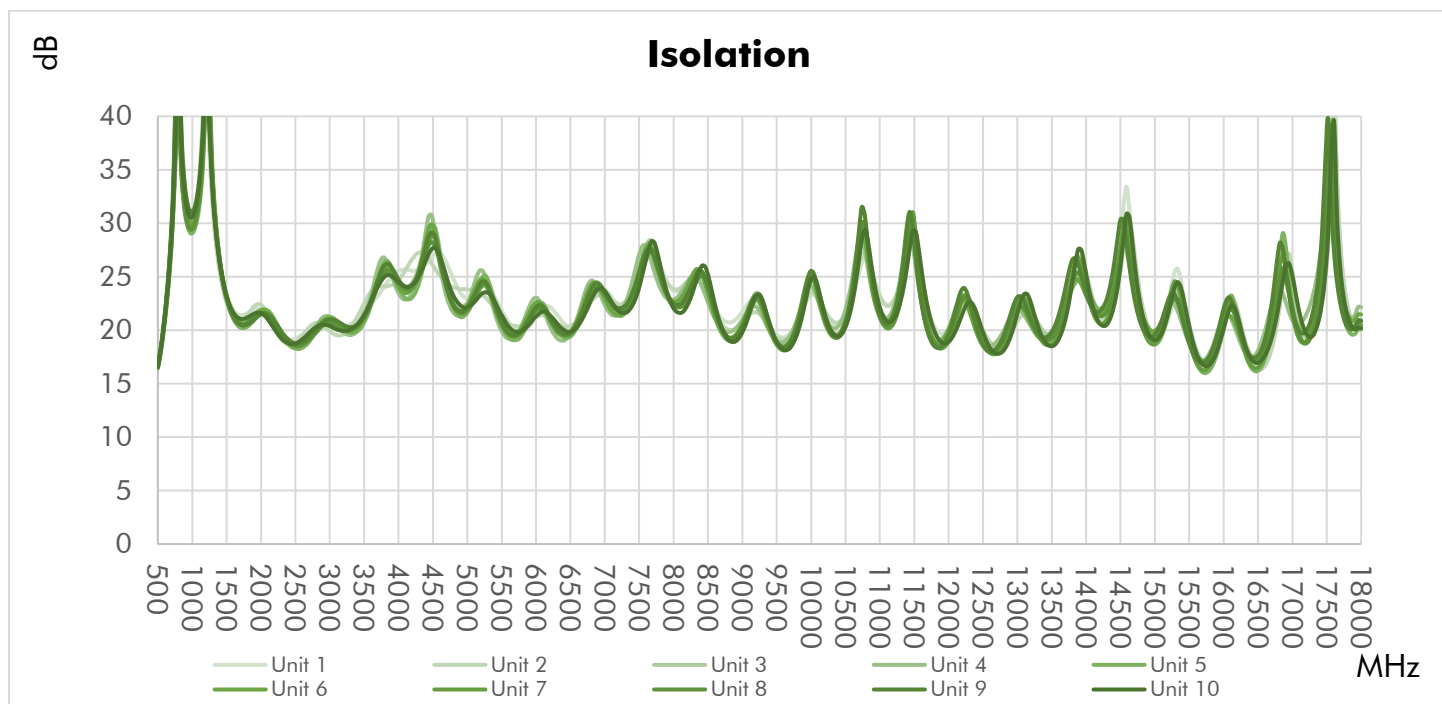
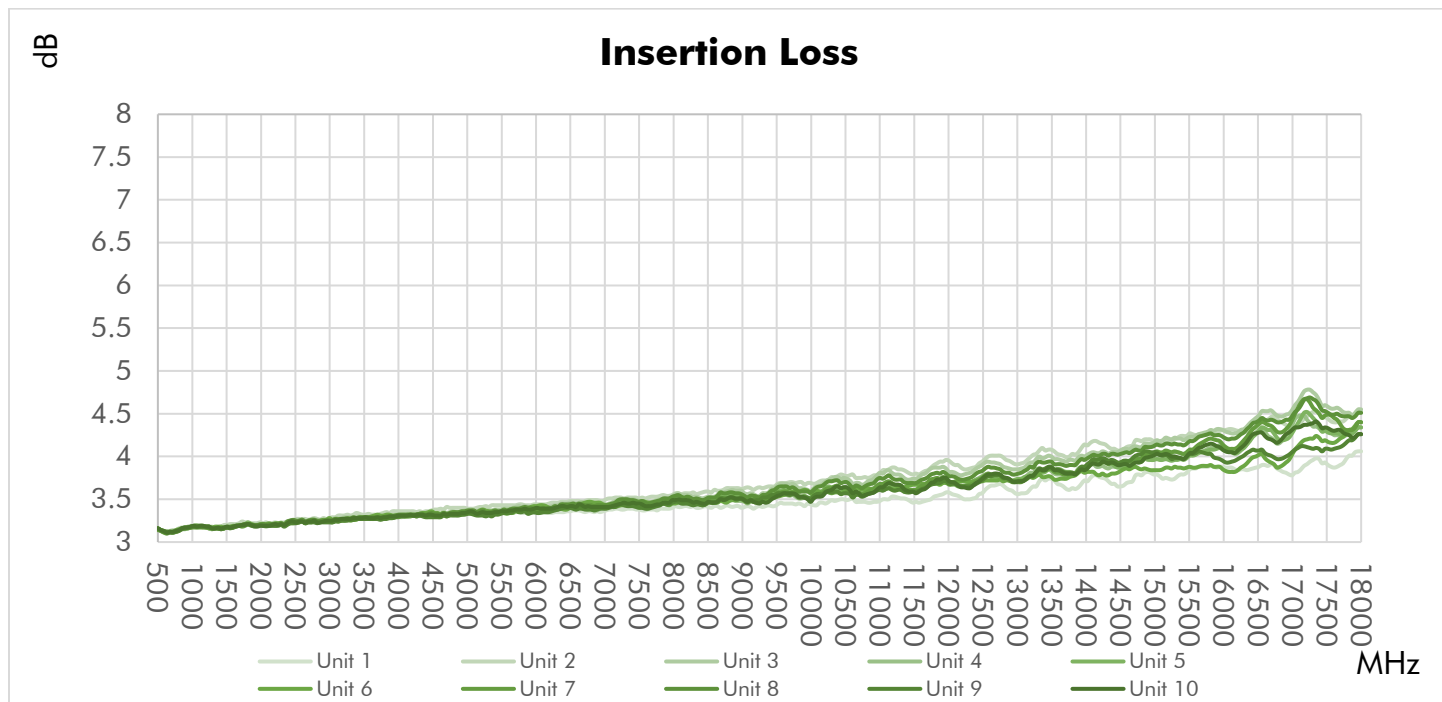


Typical Performance Over Temperature





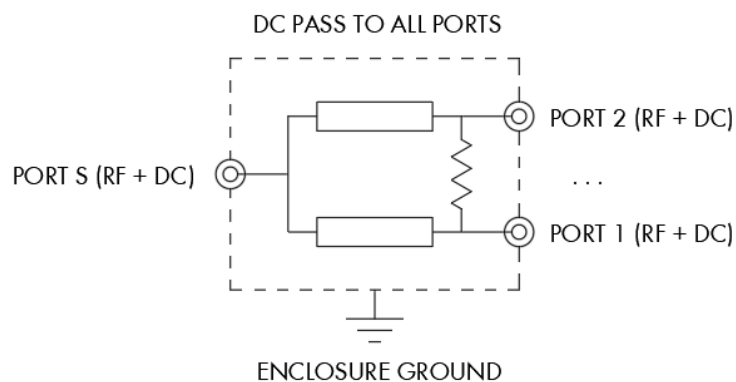
Repeatability in Production



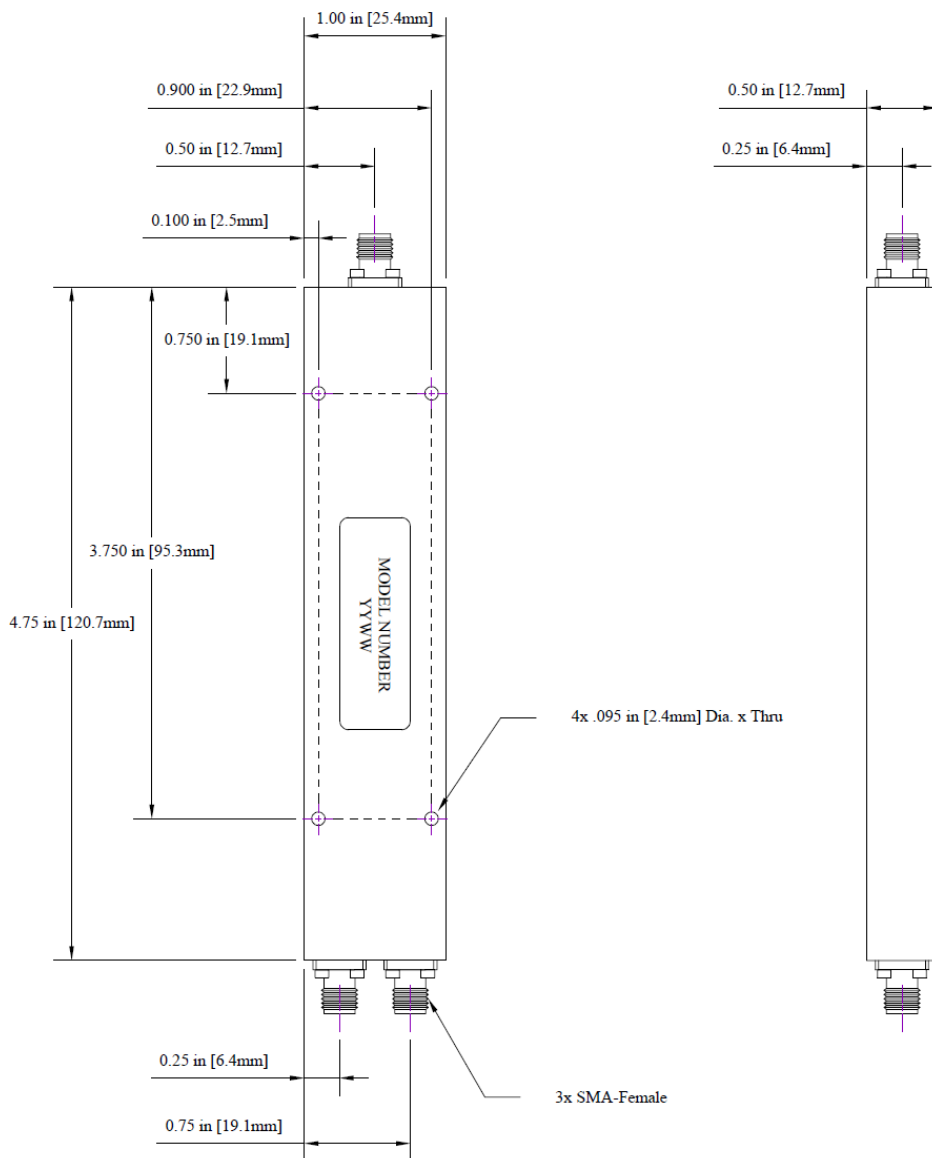
Typical Performance Data

Frequency (MHz)	Return Loss (dB)			Total Loss (dB)		Isolation (dB)
	Port S	Port 1	Port 2	S-1	S-2	
500	19.1	28.0	28.0	3.2	3.1	16.6
1000	20.5	23.4	23.7	3.2	3.2	31.4
1500	27.1	26.8	27.1	3.2	3.1	23.1
2000	28.5	22.4	22.2	3.2	3.3	21.6
2500	22.4	24.6	23.9	3.4	3.4	19.3
3000	24.6	27.3	26.7	3.2	3.2	19.7
3500	29.3	28.6	27.9	3.3	3.3	22.8
4000	22.9	37.6	39.6	3.3	3.3	23.4
4500	26.9	40.7	47.0	3.3	3.3	26.0
5000	27.0	30.0	28.7	3.3	3.3	25.0
5500	22.9	34.5	36.3	3.4	3.4	20.4
6000	25.8	25.4	27.2	3.5	3.5	21.2
6500	22.9	28.9	29.4	3.3	3.4	21.4
7000	23.8	27.2	28.5	3.5	3.5	21.8
7500	27.8	32.9	35.1	3.5	3.5	24.6
8000	23.8	47.9	35.3	3.5	3.5	25.1
8500	29.8	31.1	34.4	3.5	3.5	24.0
9000	26.4	29.0	30.8	3.4	3.4	20.0
9500	23.0	29.9	32.3	3.5	3.5	19.6
10000	32.6	27.0	31.2	3.6	3.6	24.2
10500	19.7	34.8	27.6	3.7	3.7	20.3
11000	20.0	31.7	25.1	3.6	3.6	22.6
11500	24.2	26.3	32.3	3.6	3.7	29.3
12000	17.7	25.5	31.2	3.9	3.8	20.1
12500	18.8	37.6	27.1	3.7	3.8	19.1
13000	25.3	35.0	29.0	3.7	3.7	21.5
13500	17.8	24.2	25.7	3.7	3.8	20.0
14000	19.1	23.3	23.3	3.9	3.9	23.0
14500	27.5	31.3	38.9	3.8	3.9	27.9
15000	17.4	28.6	30.7	3.9	4.0	20.2
15500	20.7	26.3	25.3	3.9	4.0	20.2
16000	32.0	20.9	19.3	3.9	4.0	19.9
16500	20.2	28.9	27.3	4.0	4.1	16.7
17000	23.8	22.2	23.5	4.0	4.1	24.6
17500	17.0	22.7	21.5	4.0	4.2	24.7
18000	15.3	20.4	18.1	4.1	4.3	19.3
18500	29.7	25.5	22.6	4.0	4.1	18.7
19000	17.5	16.3	16.4	4.5	4.6	20.7
19500	13.9	35.3	25.1	4.6	4.8	17.4
20000	21.4	19.2	22.0	4.3	4.4	23.0

Simplified Electrical Schematic



Outline Dimensions



Outline drawing: OL-2185

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

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

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