

Power Divider, 3-way, 2-18GHz, SMA Female

WM3PD-2-18-S



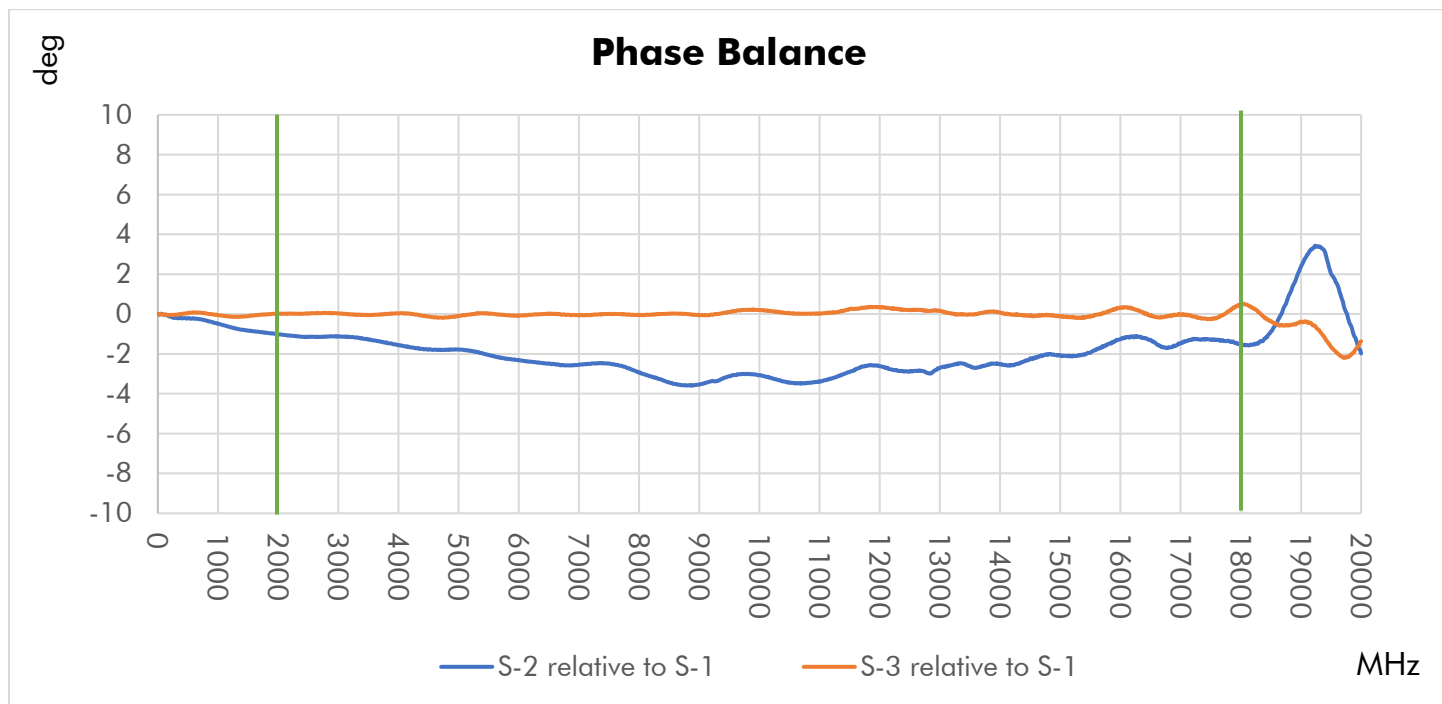
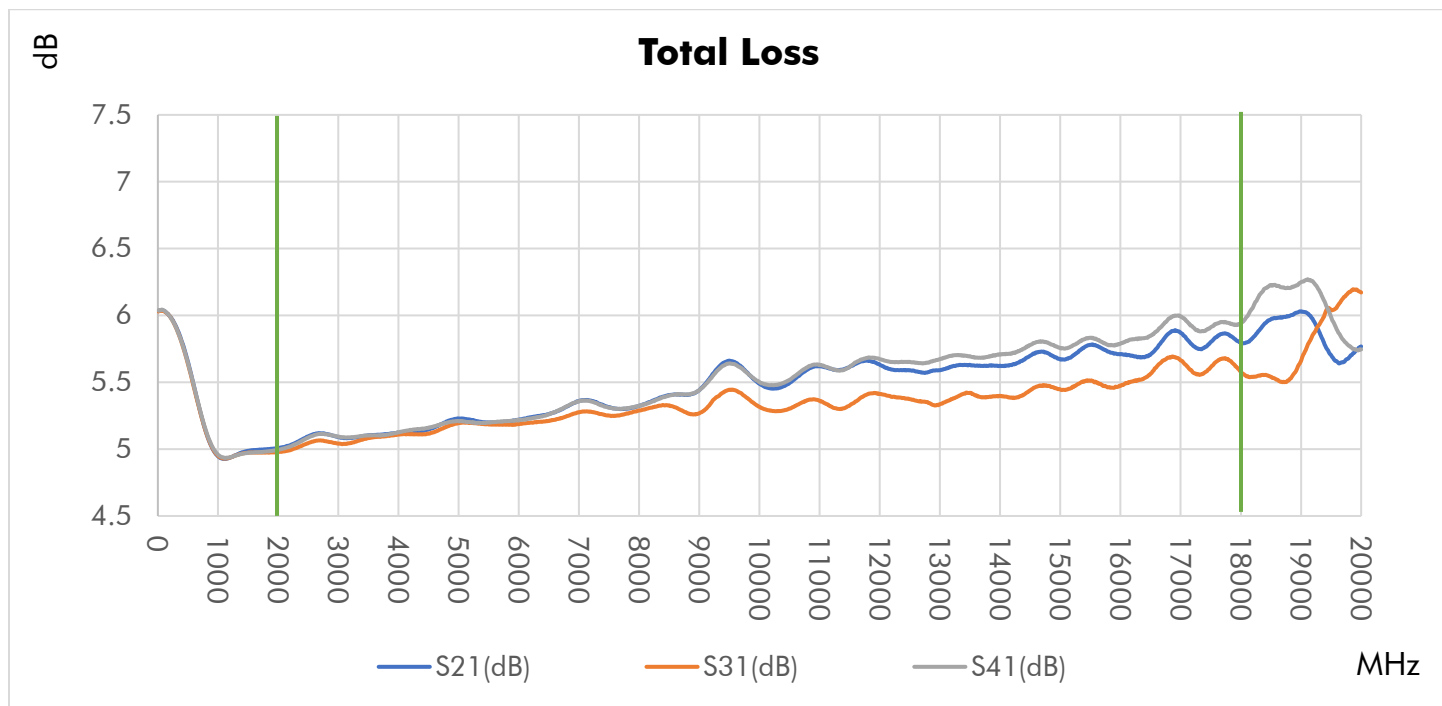
Parameter	Low Band	Mid Band	High Band	Unit
Frequency Range	2000-8000	8000-12400	12400-18000	MHz
Impedance	50			Ω
Return Loss (Port S)	14	10	10	dB, min.
Return Loss (Port 1-2)	15	13	13	dB, min.
Insertion Loss above 4.78dB	0.9	1.4	1.9	dB, max.
Isolation	18	18	15	dB, min.
Amplitude Unbalance ($\pm$) ¹	0.6	0.8	1.0	dB, max.
Phase Unbalance ($\pm$) ¹	8	10	12	Degree, max.
Input Power (CW) ²	25			W, max.
Combining Power (CW) ²	0.09			W/port, max.
Internal Dissipation	0.56			W, max.
DC Current	0.2			A/port, max.

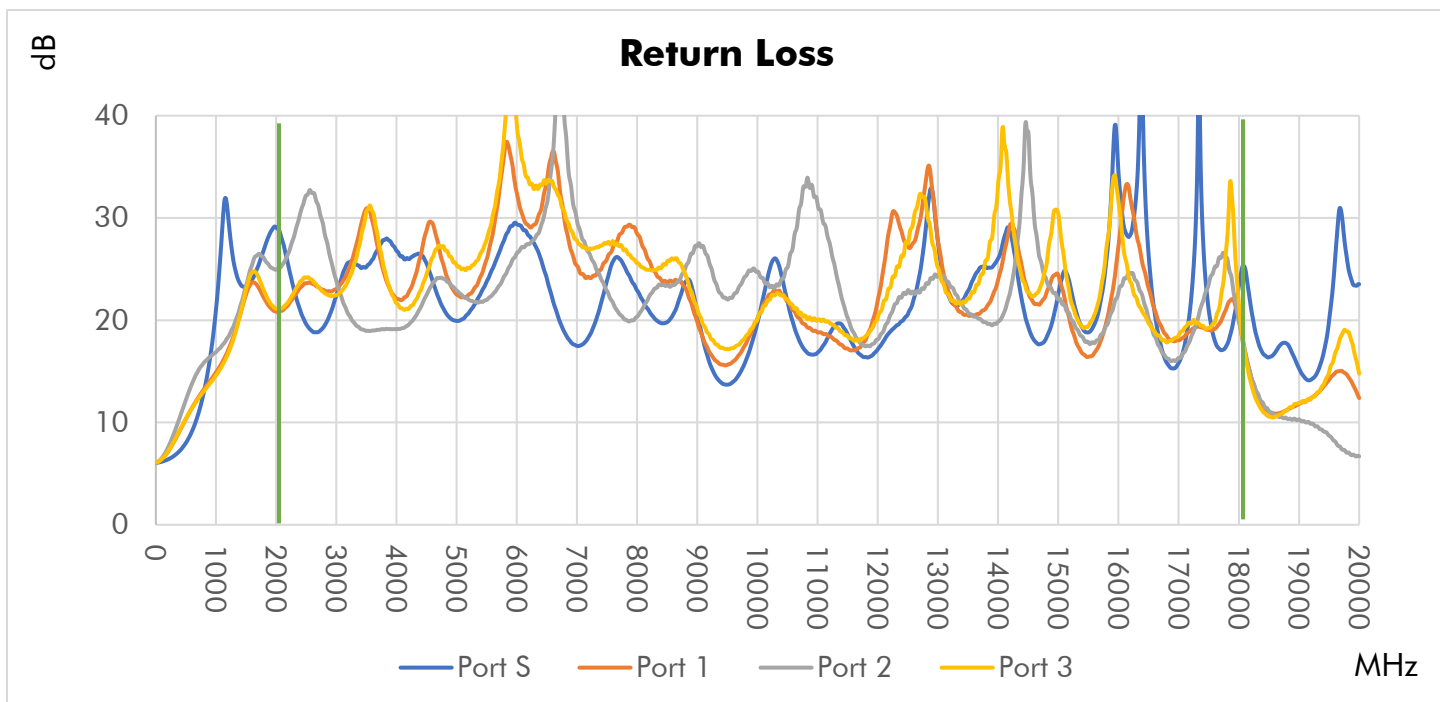
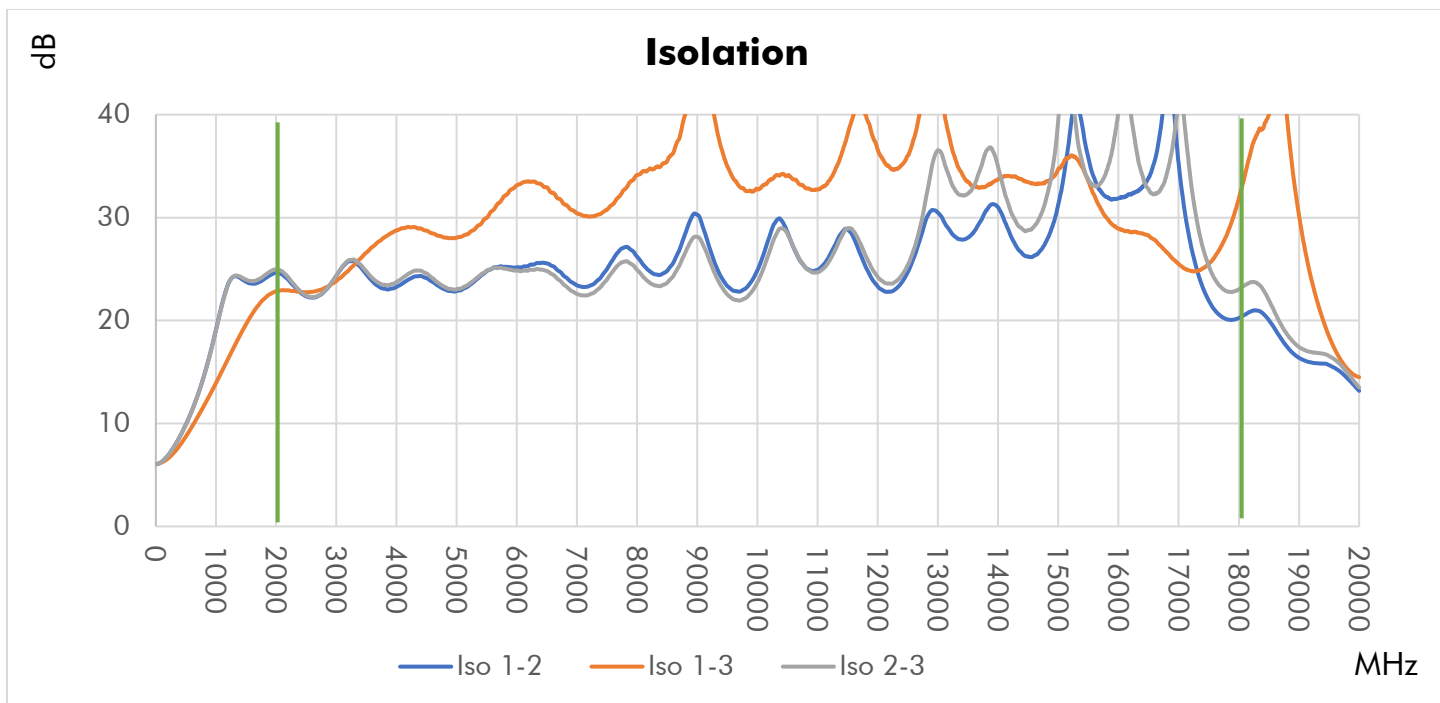
Connector Interface	SMA Female
Operating Temperature ³	-55 to +85 °C
Storage Temperature	-55 to +100 °C
Nominal Weight	200 g (7.0 oz)
Operating Humidity	10-90% (non-condensing)
Operating Environment	Indoor Use Only
HTSUS Code	8548.00.0000
ECCN	EAR99

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

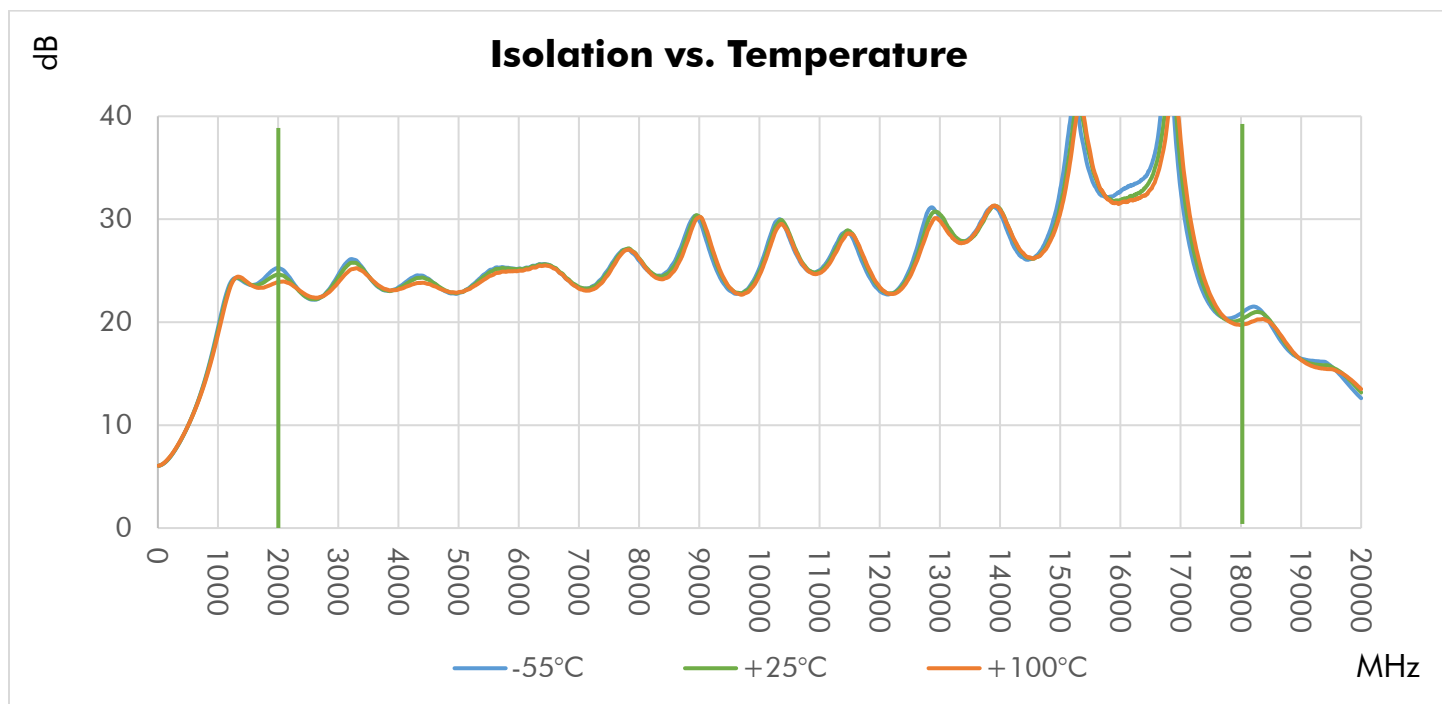
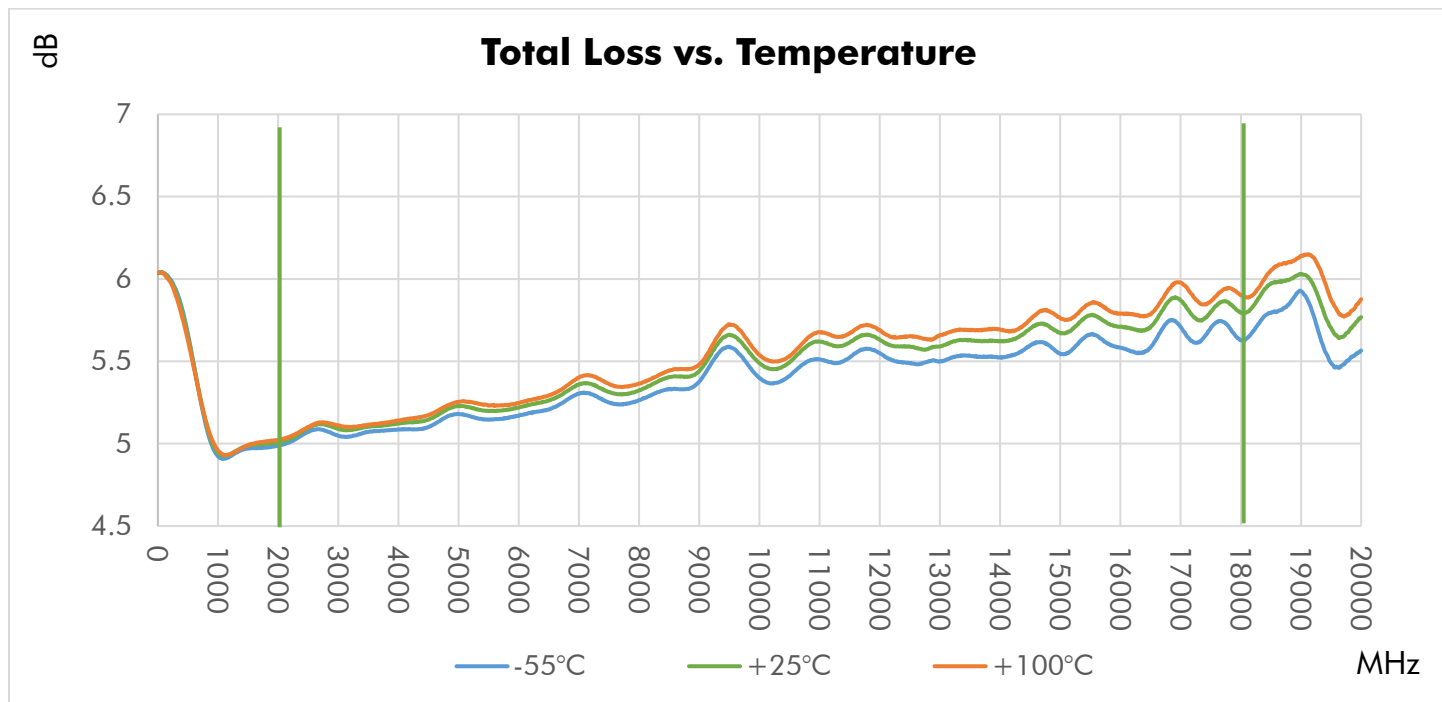
1. With reference to average.
2. All output ports should be terminated in a 50-ohm load with 1.2:1 max VSWR.
3. Electrical specifications are tested at +25 °C.
4. To the best of our knowledge at the time of publication.

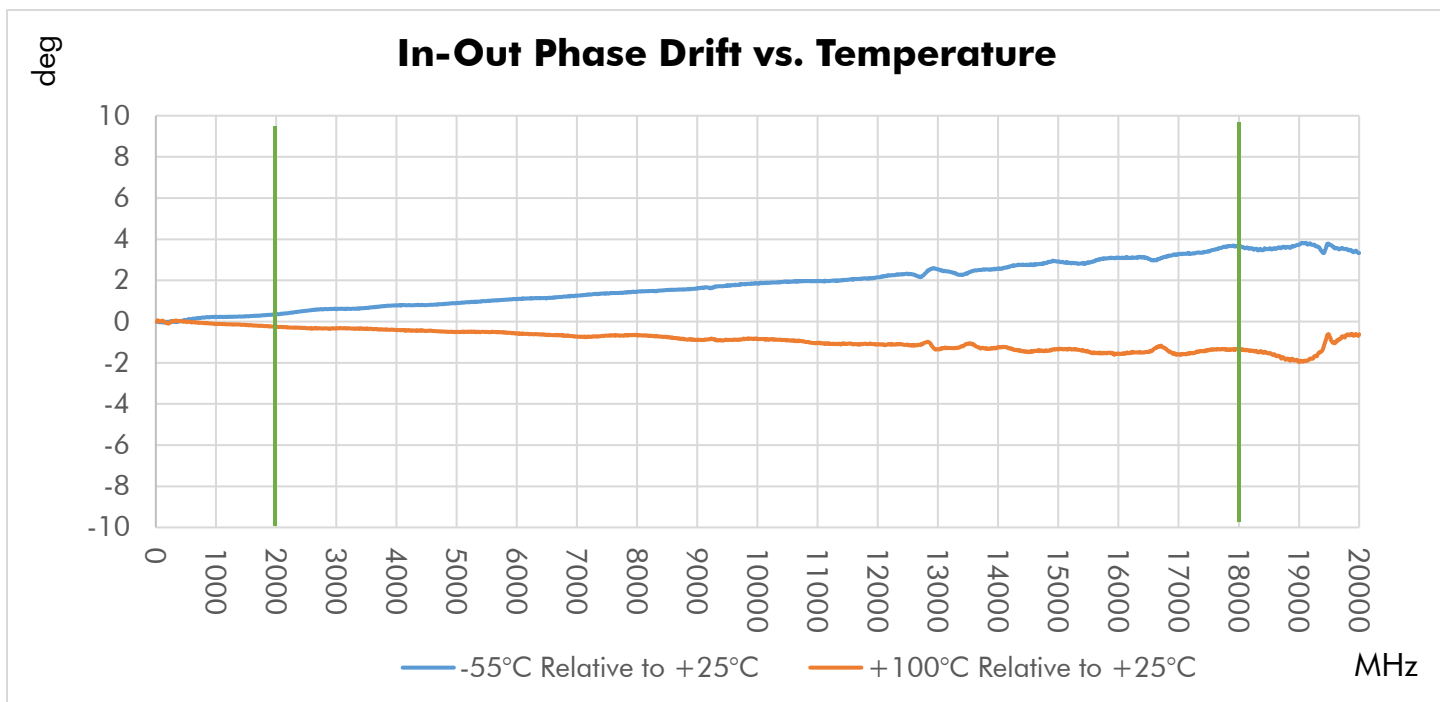
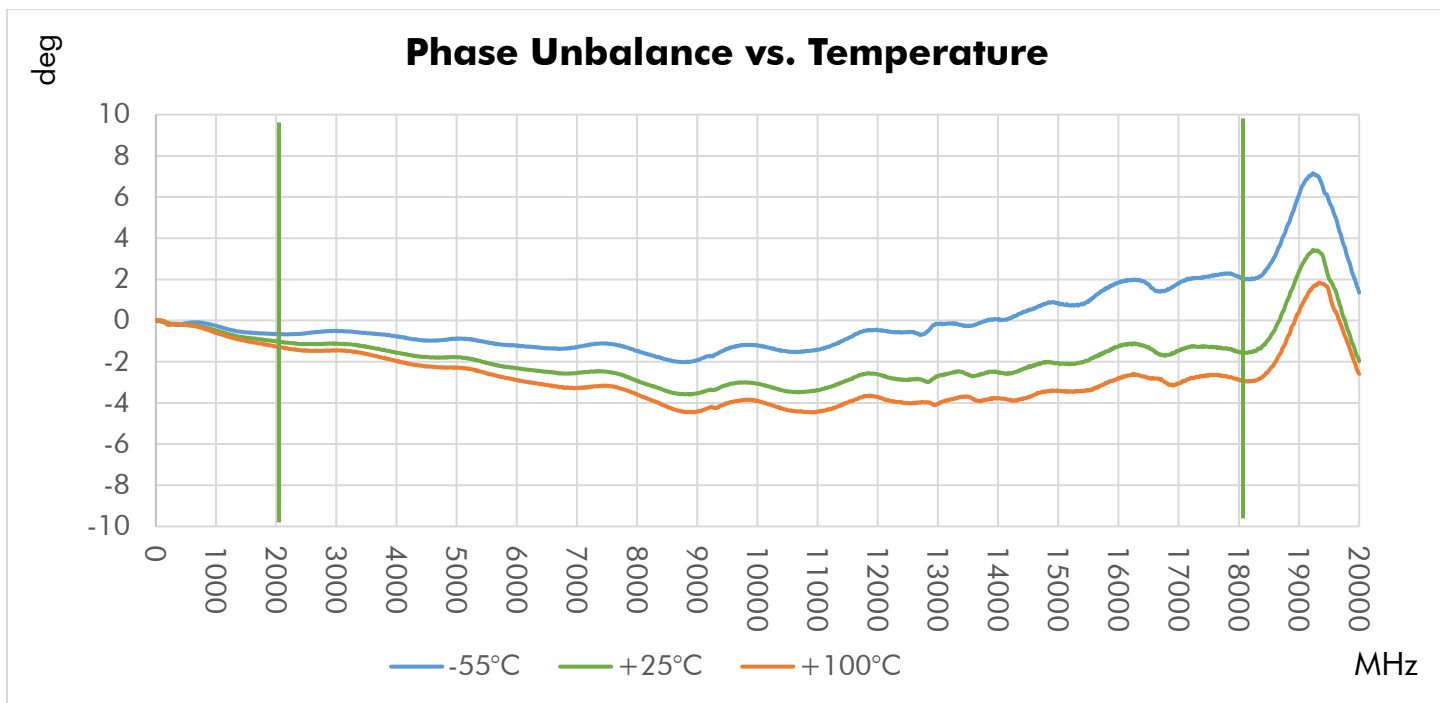
Typical Performance at +25 °C

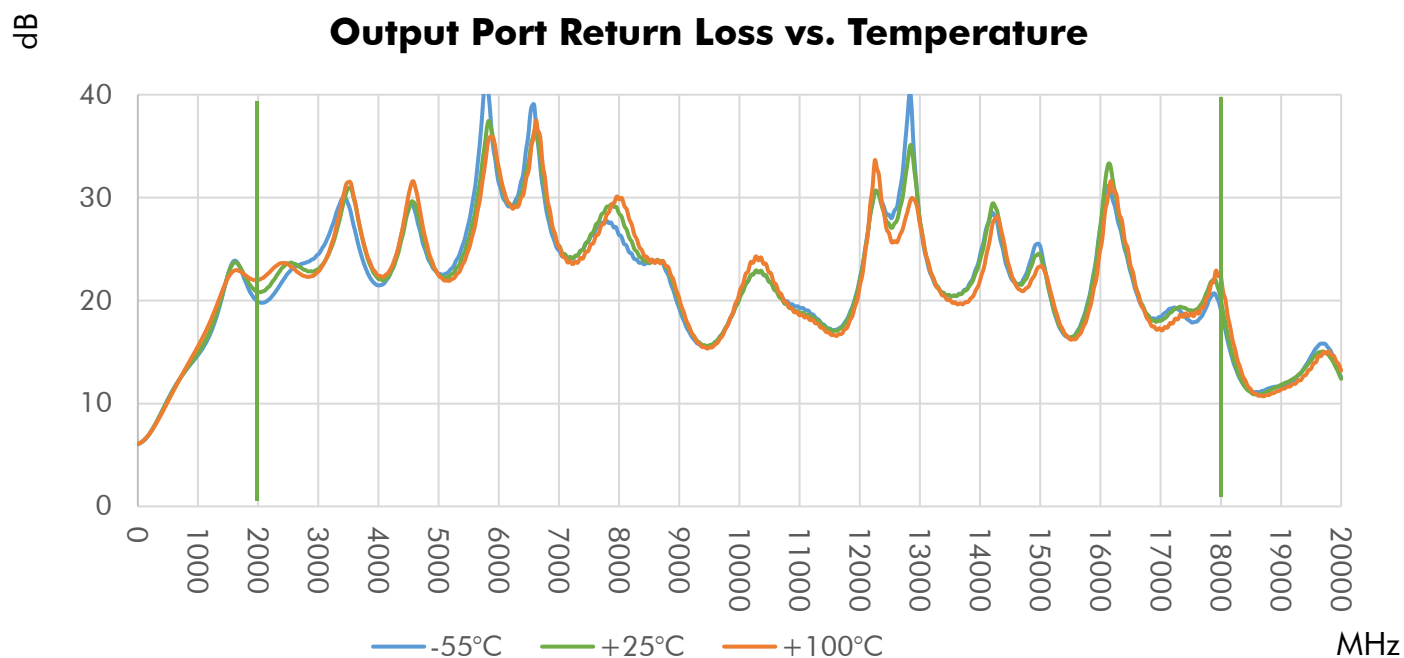
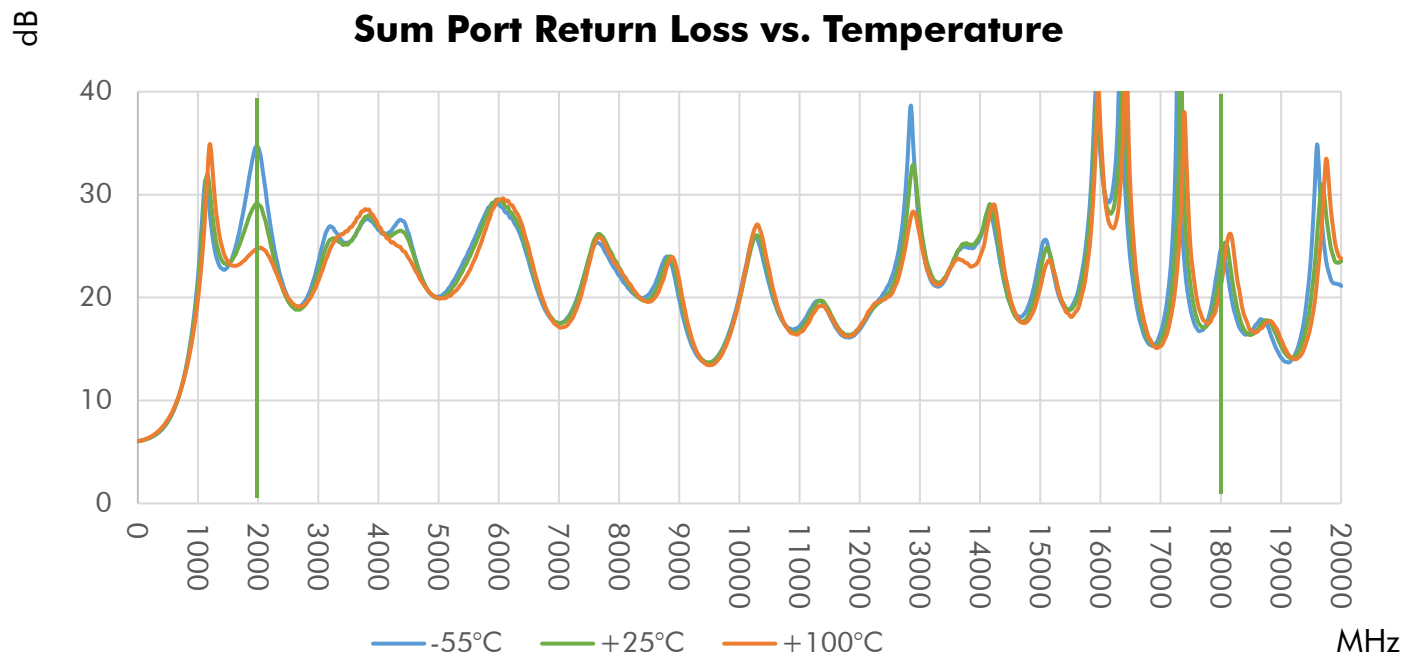




Typical Performance Over Temperature



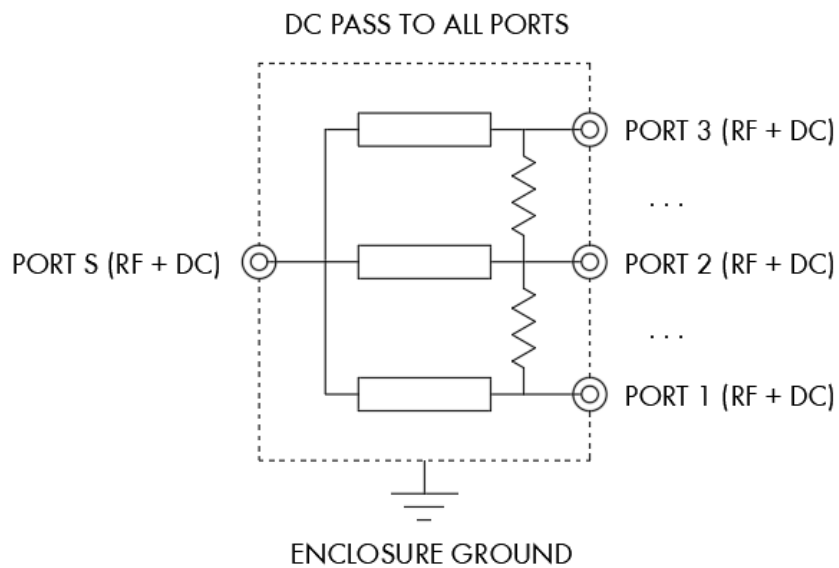




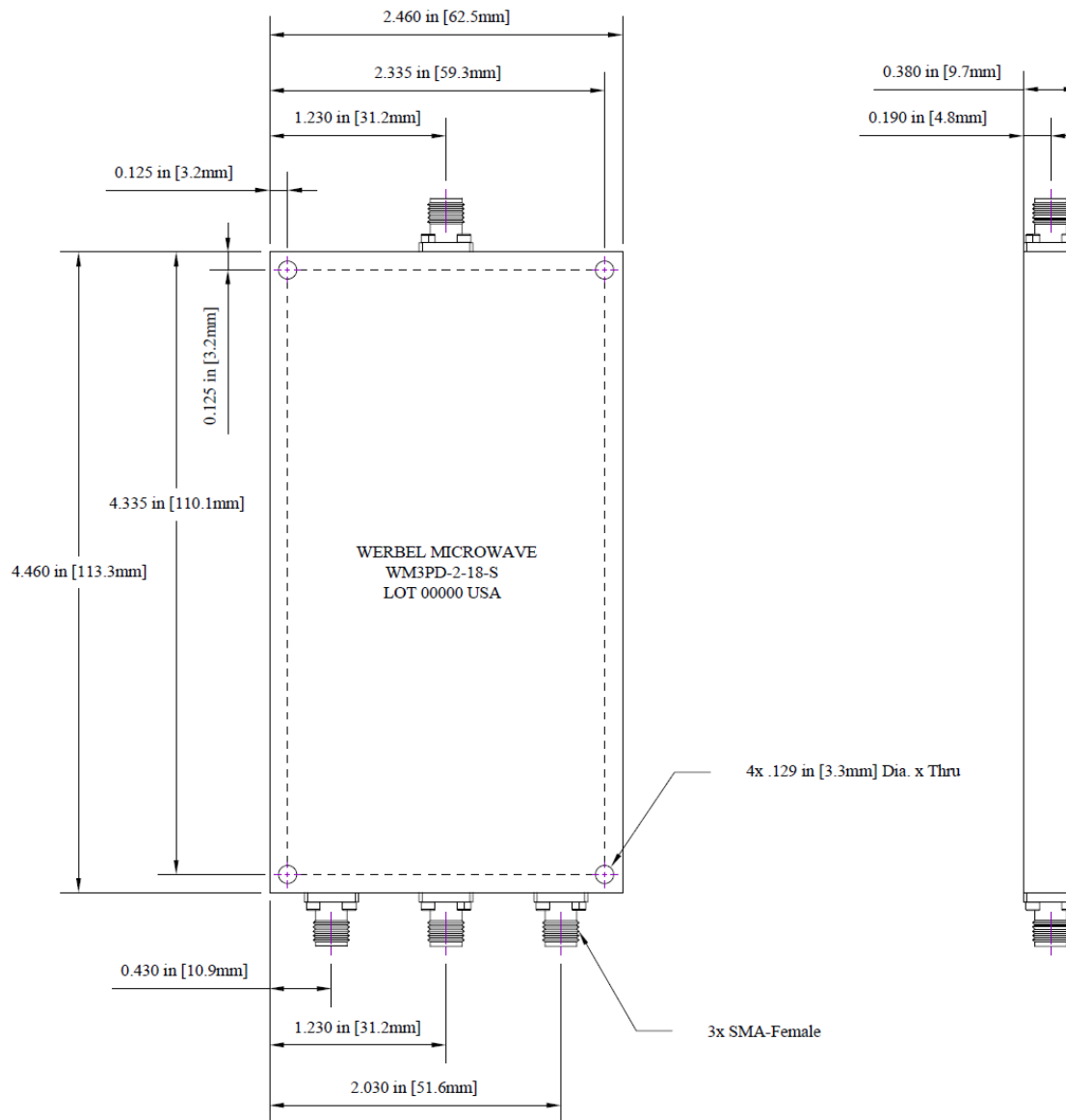
Typical Performance Data

Frequency (MHz)	Return Loss (dB)			Total Loss (dB)		Isolation (dB)	
	Port S	Port 1	Port 3	S-1	S-3	1-2	1-3
2000	19.5	27.5	28.3	5.0	5.0	22.2	23.8
2500	21.7	20.0	19.1	5.0	5.0	23.7	24.9
3000	20.6	21.3	21.4	5.0	5.0	22.3	25.9
3500	29.6	27.1	26.0	5.0	5.0	25.4	27.1
4000	20.1	27.0	25.0	5.0	5.0	22.6	27.3
4500	19.5	30.9	30.8	5.1	5.1	22.8	27.5
5000	23.8	21.2	20.5	5.1	5.1	25.0	31.1
5500	19.7	29.3	33.4	5.1	5.1	22.3	36.5
6000	24.6	32.7	27.2	5.1	5.1	26.0	31.3
6500	17.2	27.0	24.1	5.2	5.2	23.9	27.6
7000	17.7	24.8	22.7	5.2	5.3	21.4	25.2
7500	28.2	24.4	25.7	5.1	5.2	28.1	29.9
8000	17.5	25.6	23.2	5.2	5.2	22.7	40.5
8500	24.5	32.4	26.0	5.2	5.2	26.0	53.1
9000	17.0	20.4	19.1	5.3	5.4	25.1	32.2
9500	15.6	20.8	24.2	5.4	5.4	22.1	29.1
10000	28.4	27.8	25.2	5.3	5.3	26.4	32.3
10500	17.8	22.7	20.5	5.4	5.4	24.6	33.2
11000	21.2	24.0	24.6	5.3	5.4	26.4	34.7
11500	17.3	19.7	21.8	5.5	5.5	25.7	47.0
12000	16.4	24.0	22.6	5.5	5.6	22.2	37.8
12500	21.4	21.2	21.1	5.4	5.4	27.0	41.9
13000	18.0	21.5	23.2	5.5	5.5	25.4	33.1
13500	26.9	26.5	27.6	5.5	5.5	28.3	32.9
14000	18.3	24.7	26.1	5.5	5.6	28.3	37.8
14500	15.9	22.0	21.7	5.6	5.6	24.3	33.7
15000	26.5	24.4	25.6	5.5	5.5	33.6	40.0
15500	14.0	17.6	18.6	5.7	5.8	26.7	33.0
16000	25.5	29.0	30.8	5.5	5.6	26.9	25.6
16500	22.1	25.5	24.2	5.6	5.7	30.6	25.3
17000	12.8	17.4	17.3	5.8	5.9	27.8	24.3
17500	23.8	19.0	18.4	5.6	5.7	23.9	28.1
18000	15.8	17.8	16.5	5.7	5.8	24.9	38.6

Simplified Electrical Schematic



Outline Dimensions



Outline drawing: OL-3182

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

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

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