

Power Divider, 4-way, 2-18GHz, SMA Female

WM4PD-2-18-S



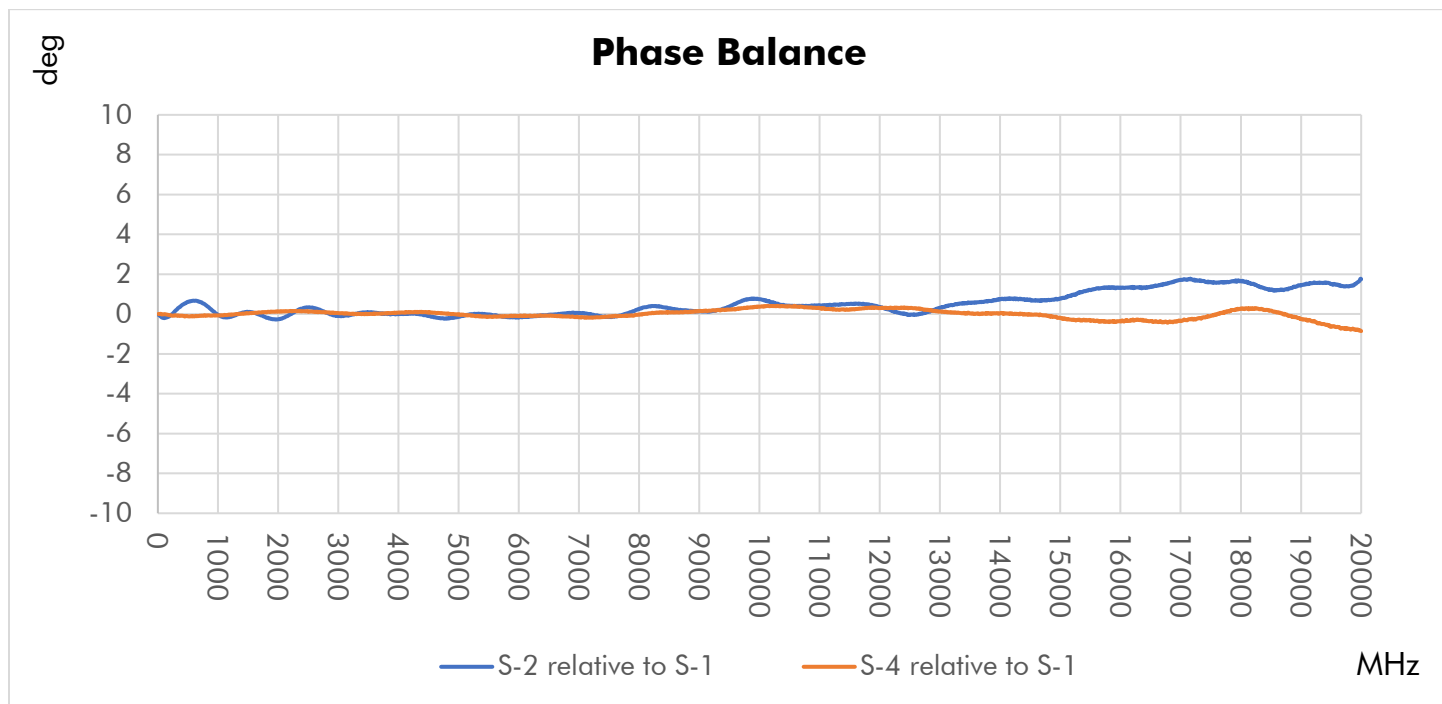
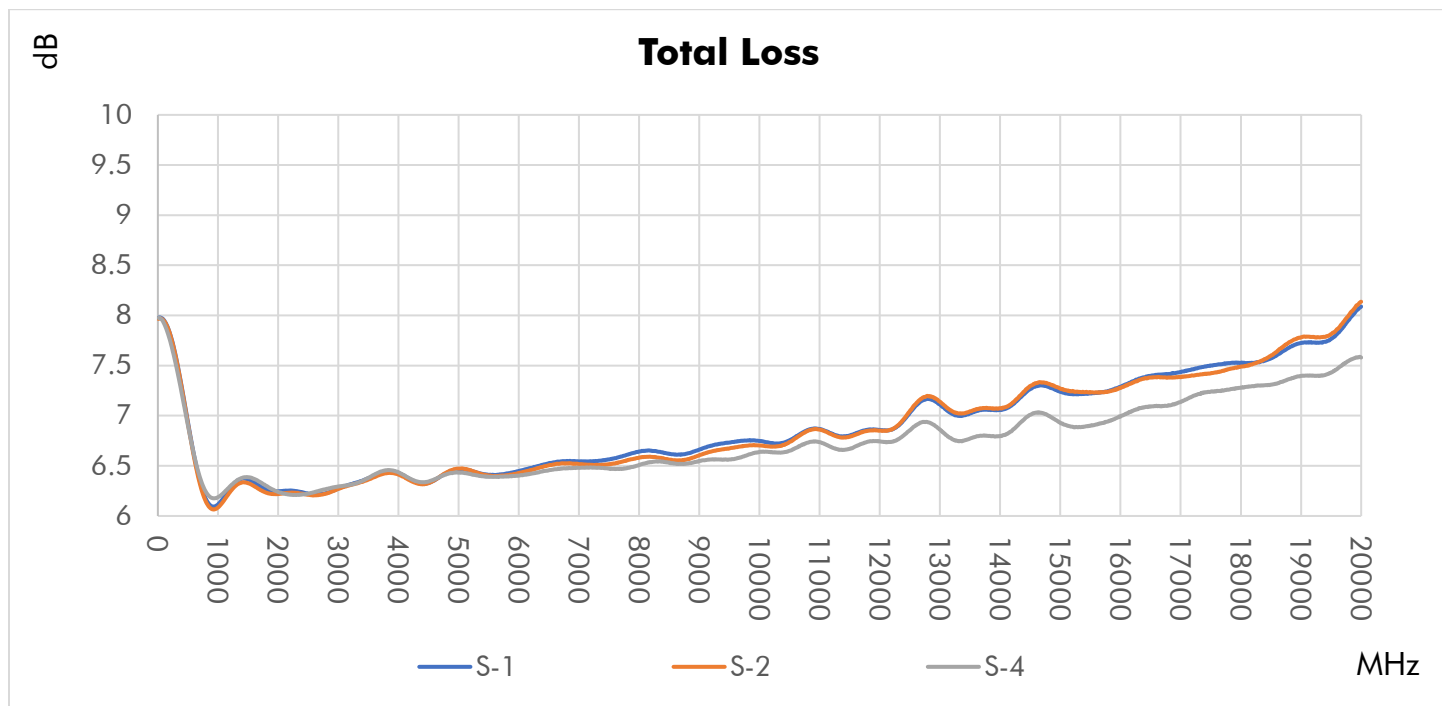
Parameter	Min	Typ.	Max	Units
Frequency Range	2000		18000	MHz
Impedance		50		Ohm
Return Loss (Port S)	10	13		dB
Return Loss (Port 1-4)	13	17		dB
Insertion Loss above 6.0 dB		0.8	1.8	dB
Isolation	16	18		dB
Amplitude Balance		0.3	1.0	dB
Phase Balance		3	12	Degrees
Input Power (CW) ¹		30		Watts

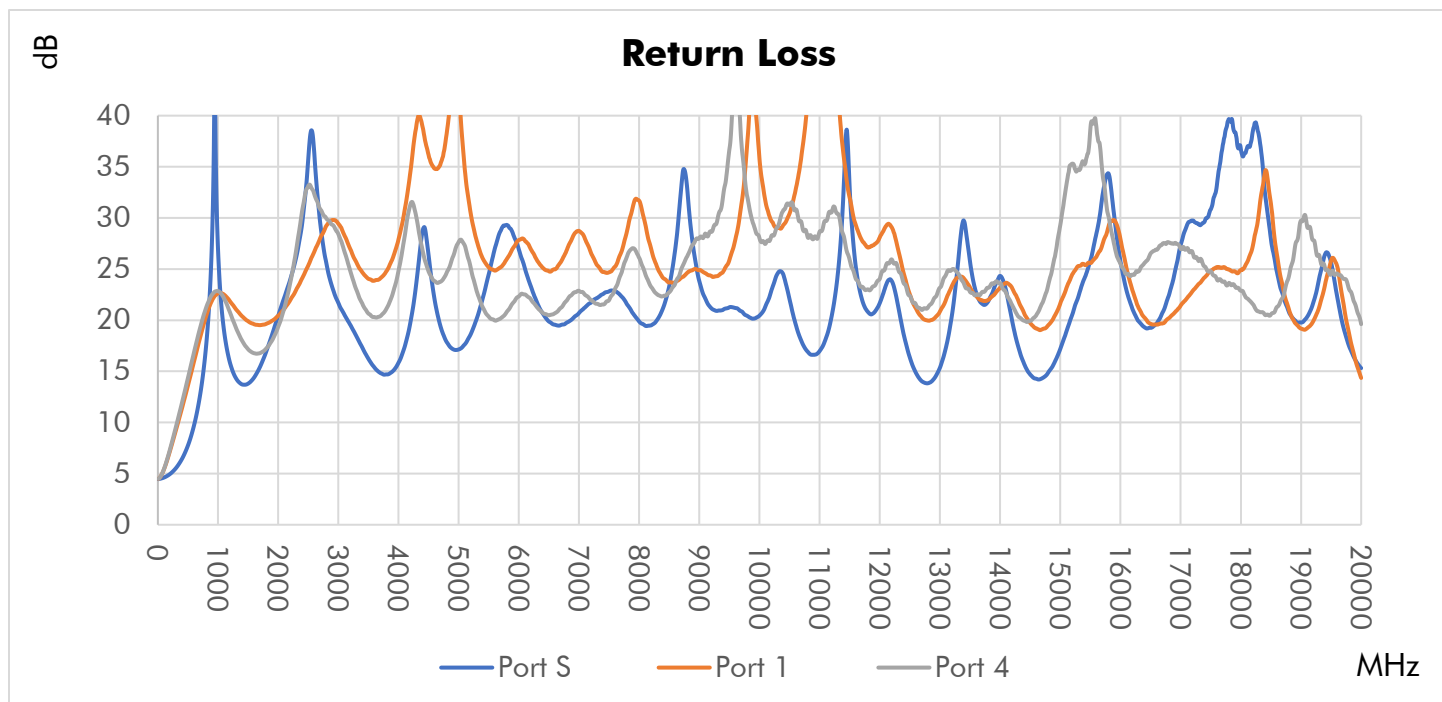
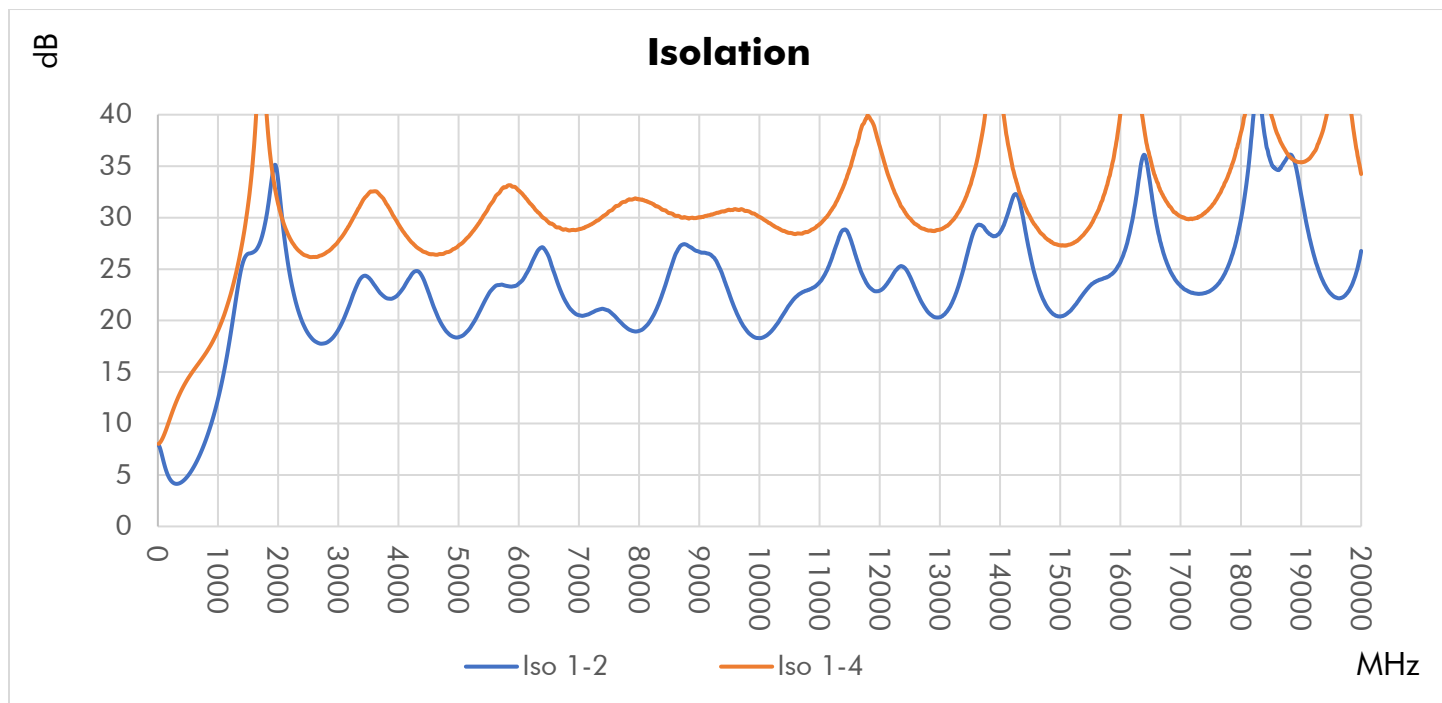
Connector Interface	SMA-Female
Operating Temperature ²	-55 to +85 °C
Storage Temperature	-55 to +100 °C
Nominal Weight	312 g (11 oz)
Operating Humidity	10-90% (non-condensing)
Operating Environment	Indoor Use Only
HTSUS Code	8548.00.0000
ECCN	EAR99

RoHS Status ³	RoHS3 Compliant
REACH Status ³	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

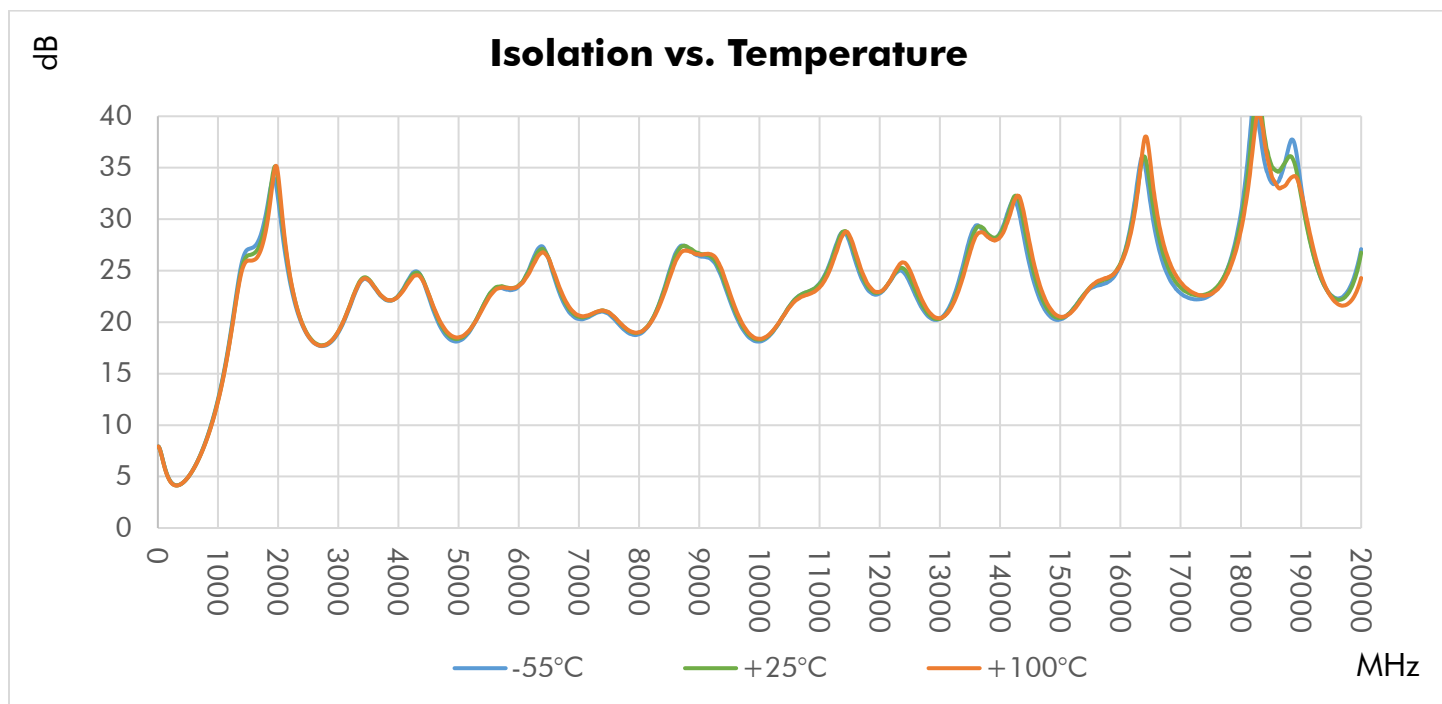
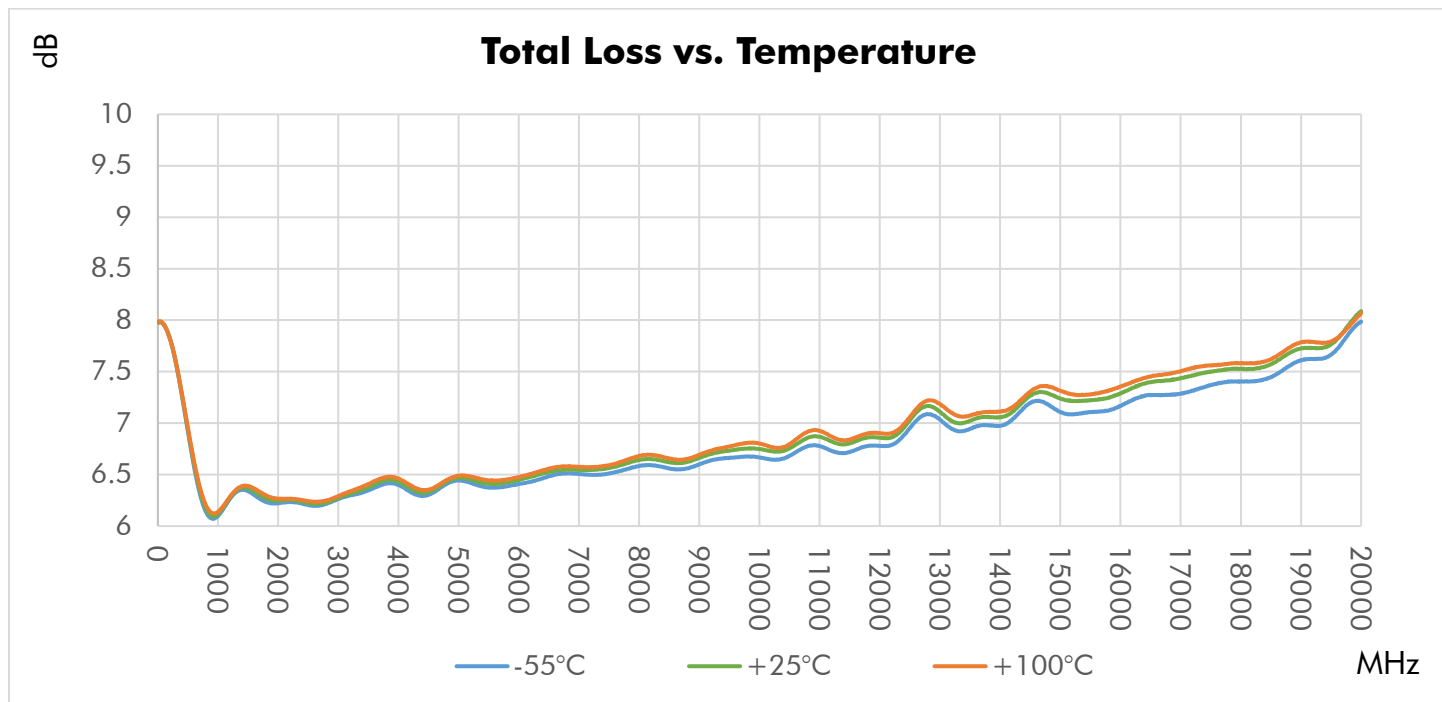
1. All output ports should be terminated in a 50-ohm load with 1.2:1 max VSWR.
2. Electrical specifications are tested at +25 °C.
3. To the best of our knowledge at the time of publication.

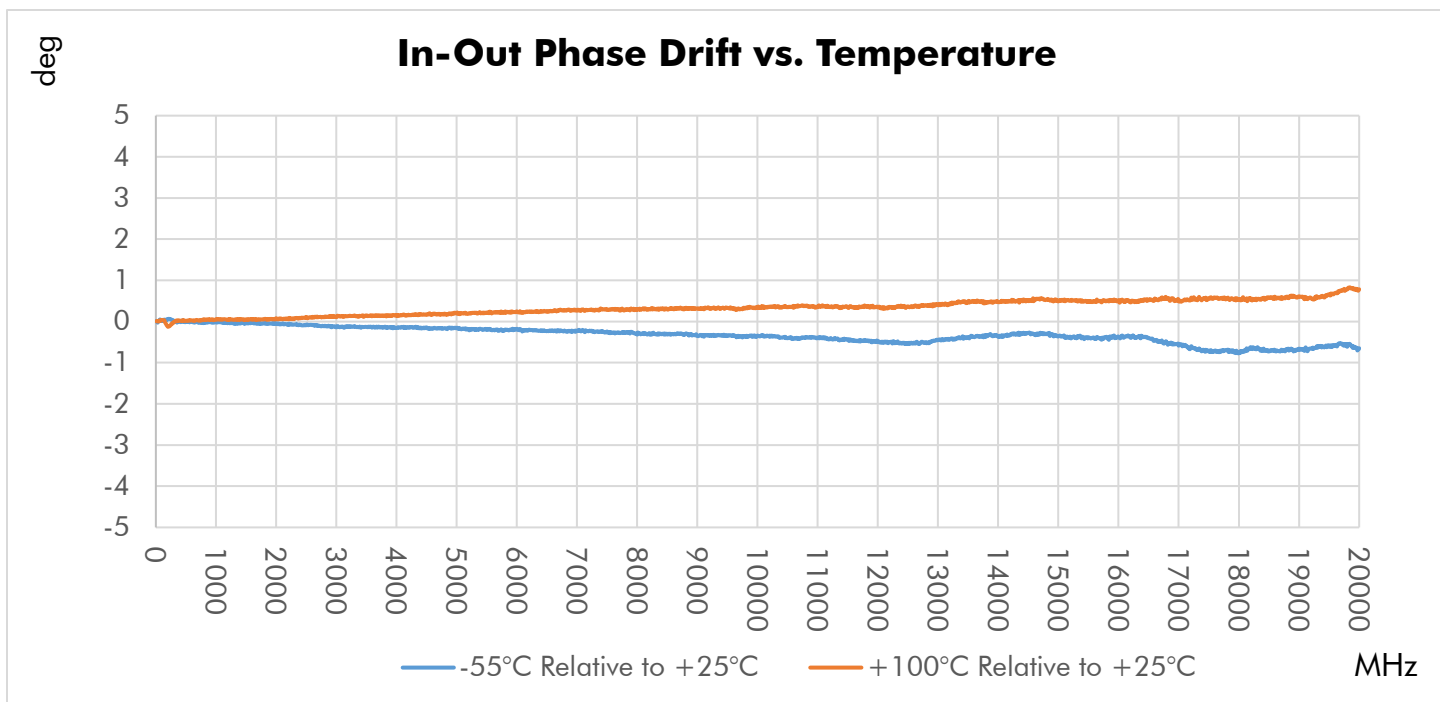
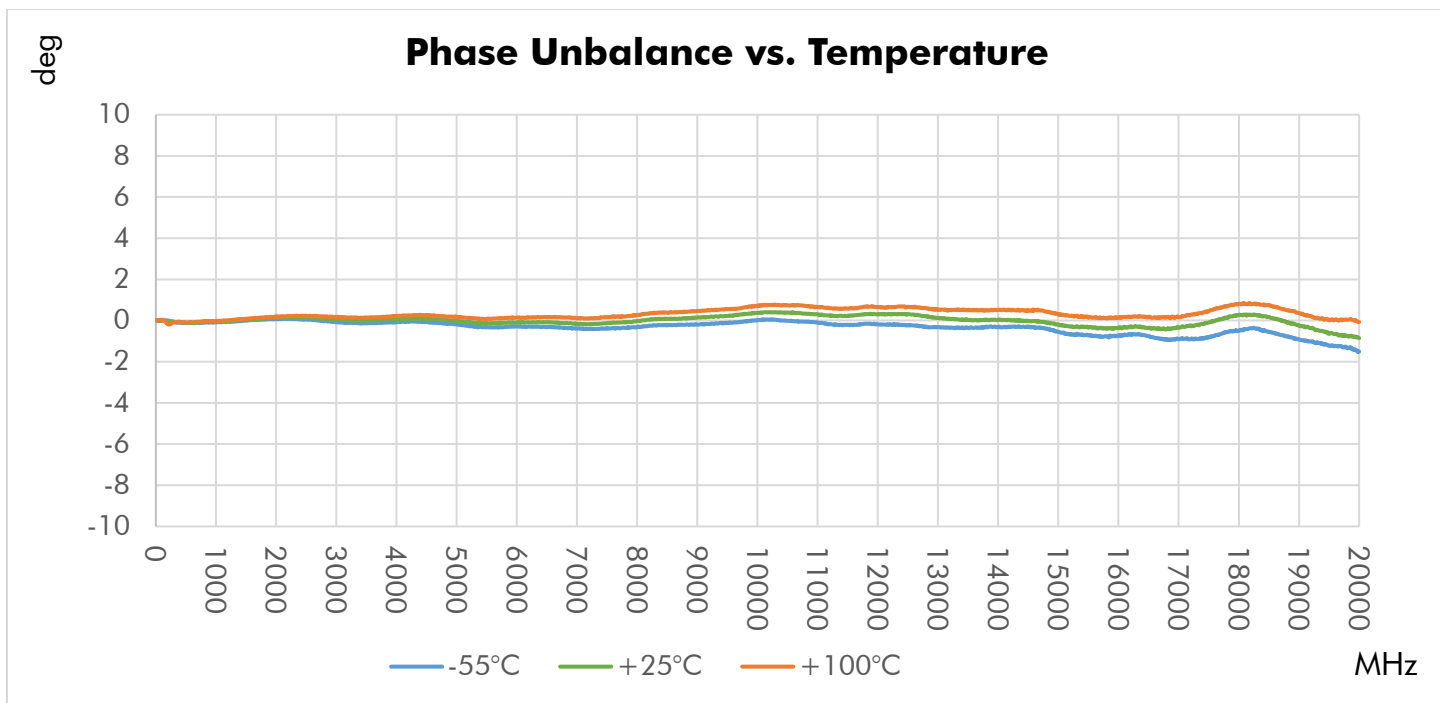
Typical Performance at +25 °C

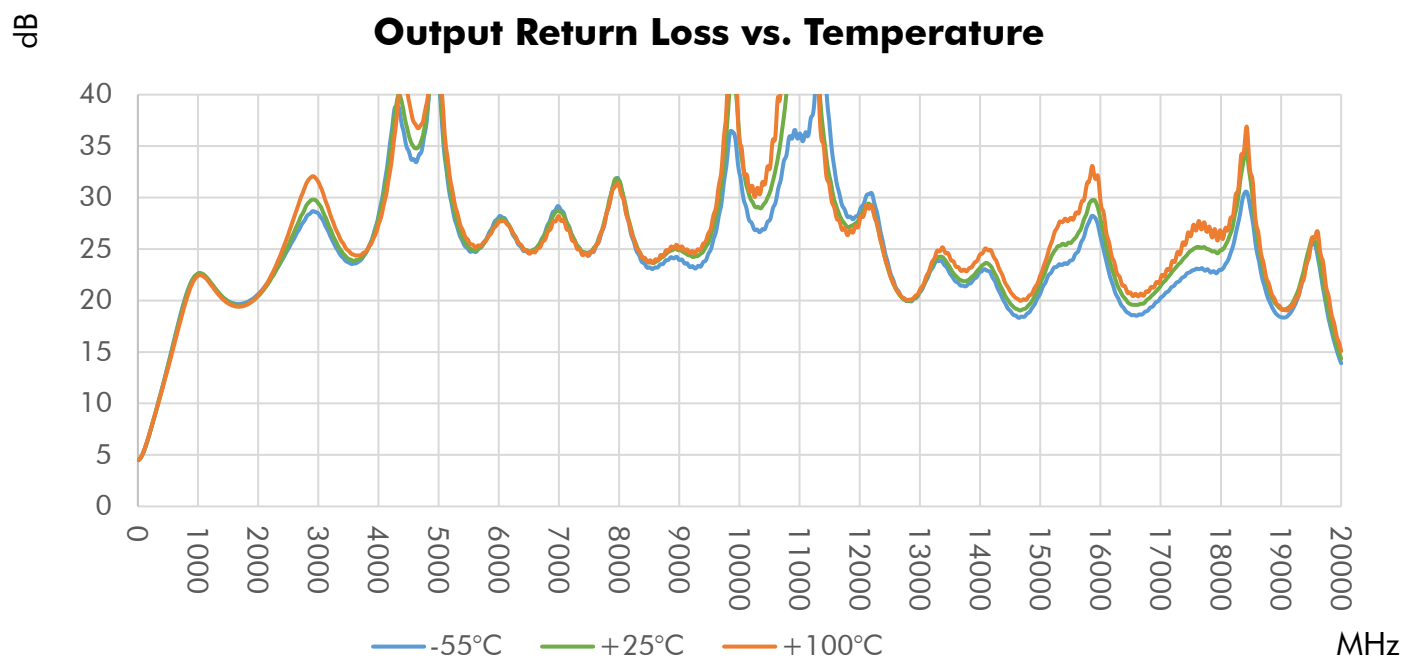
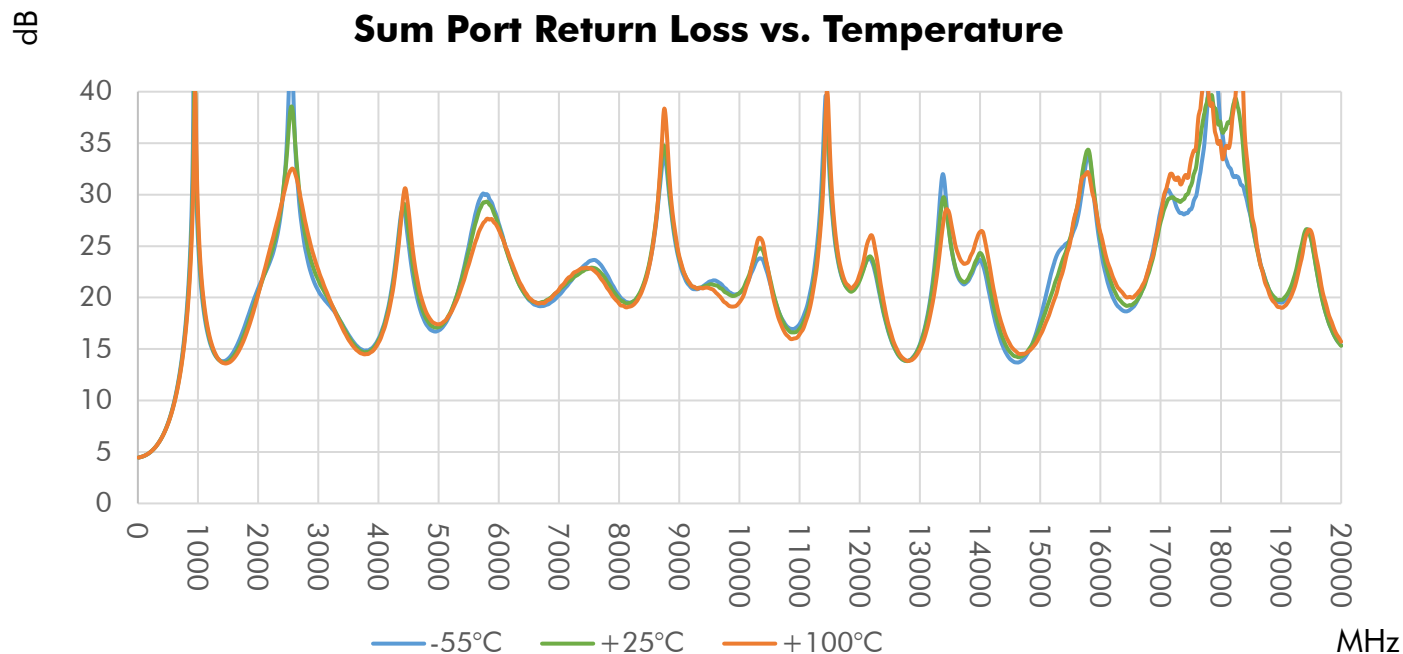




Typical Performance Over Temperature



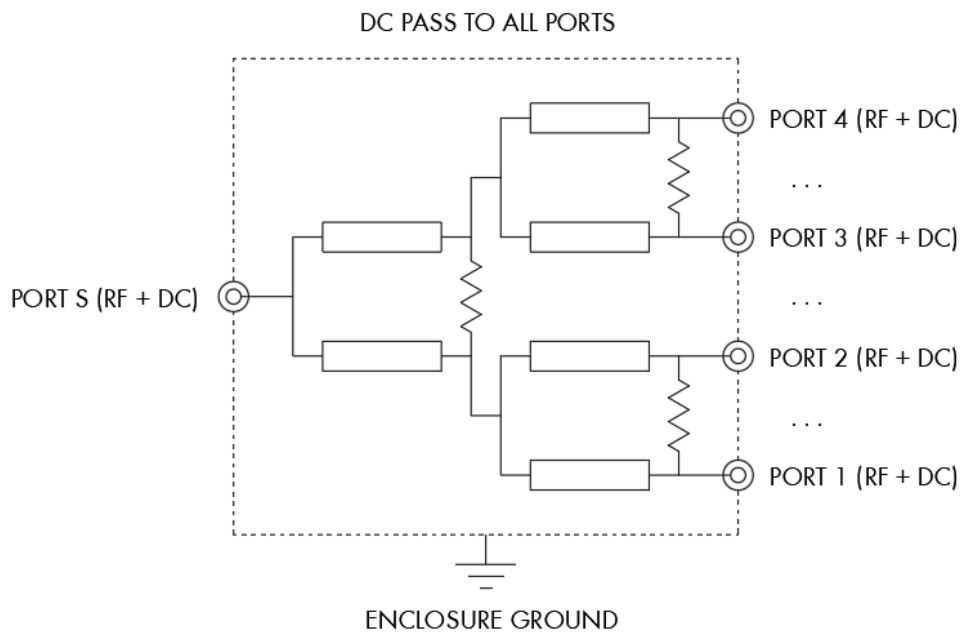




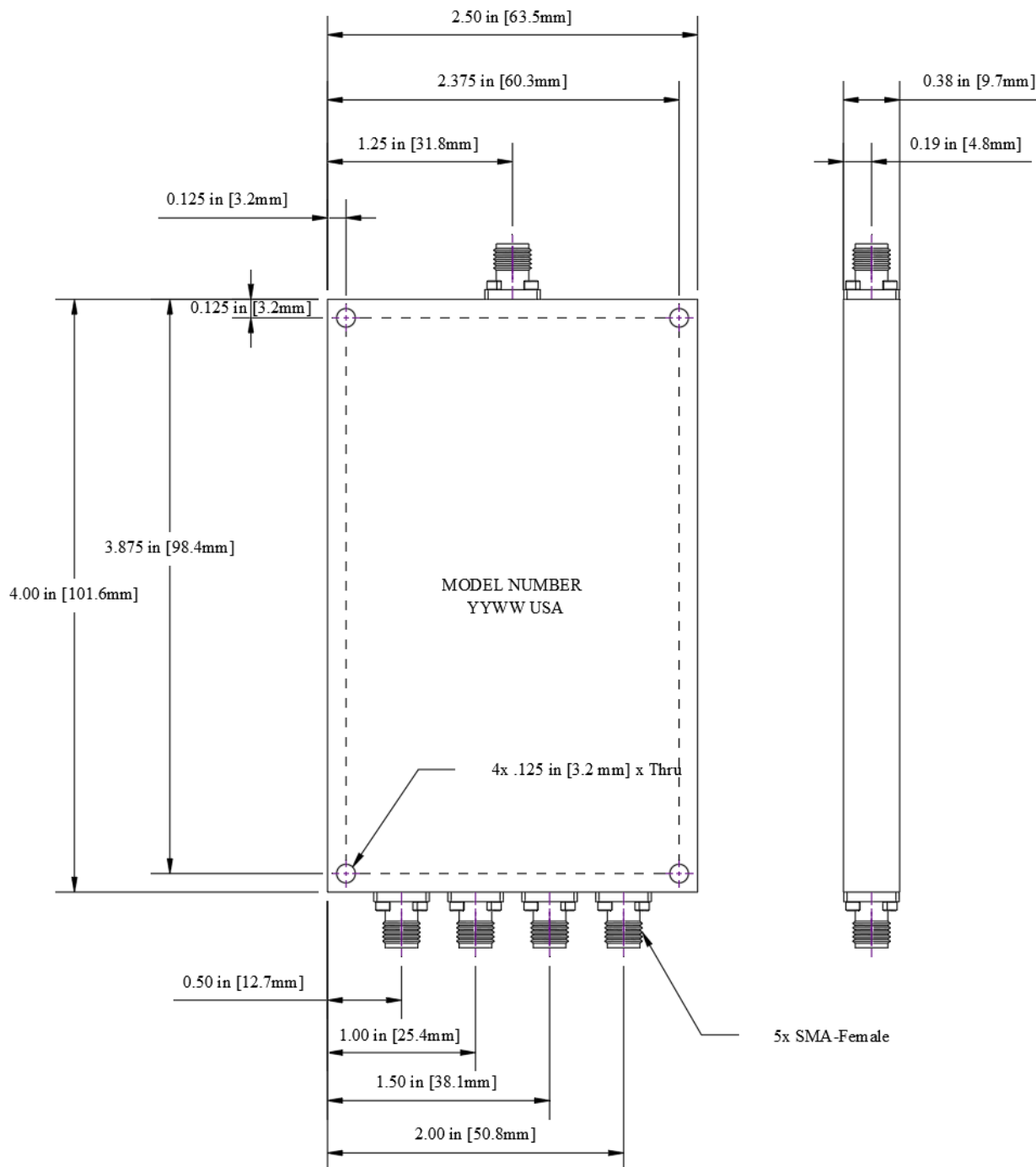
Typical Performance Data

Frequency (MHz)	Return Loss (dB)			Total Loss (dB)		Isolation (dB)
	Port S	Port 1	Port 4	S-1	S-4	
2000	18.0	20.1	18.1	6.3	6.3	32.8
2500	30.2	30.5	30.1	6.2	6.2	20.1
3000	24.4	32.8	24.5	6.2	6.2	19.1
3500	15.2	22.2	15.2	6.3	6.3	23.0
4000	17.5	28.5	17.5	6.3	6.2	22.4
4500	24.1	30.3	24.1	6.3	6.3	26.0
5000	20.9	33.4	21.0	6.3	6.4	21.4
5500	19.3	24.2	19.2	6.3	6.3	22.2
6000	21.2	29.6	21.2	6.4	6.4	20.1
6500	23.4	27.0	23.4	6.3	6.4	25.3
7000	28.9	25.6	29.0	6.5	6.5	29.1
7500	23.5	26.7	23.5	6.4	6.4	23.4
8000	20.7	37.2	20.8	6.4	6.4	19.8
8500	22.2	35.7	22.3	6.4	6.5	22.9
9000	14.9	40.6	14.8	6.6	6.7	22.2
9500	31.0	32.0	30.9	6.6	6.5	27.1
10000	24.1	52.7	24.2	6.5	6.6	25.0
10500	17.5	22.6	17.5	6.8	6.8	26.3
11000	14.7	22.5	14.8	6.5	6.5	20.8
11500	39.6	23.7	39.8	6.6	6.6	20.2
12000	23.3	31.3	23.4	6.7	6.7	23.7
12500	31.0	22.4	31.1	6.6	6.6	32.2
13000	22.2	21.7	22.3	6.9	6.9	24.3
13500	29.3	24.4	29.6	6.6	6.6	23.4
14000	17.5	22.2	17.5	6.8	6.9	26.1
14500	21.4	27.6	21.4	6.7	6.8	25.2
15000	33.4	36.0	33.6	6.7	6.8	24.1
15500	24.7	26.1	24.8	6.7	6.8	30.2
16000	17.5	25.5	17.5	6.8	6.9	29.8
16500	14.8	22.2	14.8	7.1	7.2	20.6
17000	24.0	21.1	24.2	6.8	6.9	24.5
17500	22.0	23.6	22.0	6.8	6.9	26.6
18000	14.6	16.6	14.6	7.1	7.2	32.8
18500	23.6	18.7	23.5	6.8	6.9	25.0
19000	16.0	16.4	16.1	7.0	7.1	35.9
19500	20.0	15.9	20.1	7.1	7.2	33.0
20000	13.3	16.5	13.3	7.2	7.3	27.1

Simplified Electrical Schematic



Outline Dimensions



Outline drawing: OL-4182

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

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

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