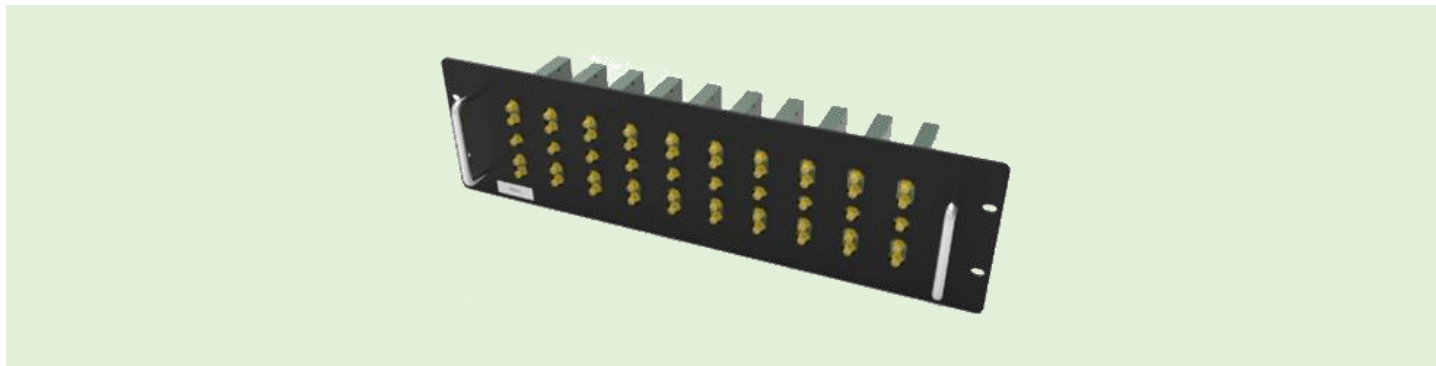


10 Count, 1:4 Passive Divider/Combiner, 4U Rack Mount

WMU-107



Parameter	Min.	Typ.	Max.	Unit
Frequency Range	600		7125	MHz
Impedance		50		Ω
Insertion Loss (includes 6dB loss to splitting)		1.7	2.4	dB
Return Loss (Port S)	600-700MHz 700-7125MHz	11 14	17 19	dB
Return Loss (Port 1-4)	18	21		dB
Isolation	18	21		dB
Amplitude Unbalance ($\pm$) ¹		0.2	0.6	dB
Phase Unbalance ($\pm$) ¹		2.5	9.0	Degrees
Input Power (CW) ²			30	W

Connector Interface SMA Female

Operating Temperature³ -0 to +50 °C

Storage Temperature -20 to +60 °C

Nominal Weight 1.9 kg (4.2 lb.)

Operating Humidity 10-90% (non-condensing)

Operating Environment Indoor Use Only

HTSUS Code 8548.00.0000

ECCN EAR99

RoHS Status⁴

REACH Status⁴

Enclosure Material

Connectors Material

Contacts Material

Insulators Material

Finish

Country of Origin

RoHS3 Compliant

REACH Unaffected

Aluminum/Steel

Brass, Gold Plated

Beryllium Copper, Gold Plated

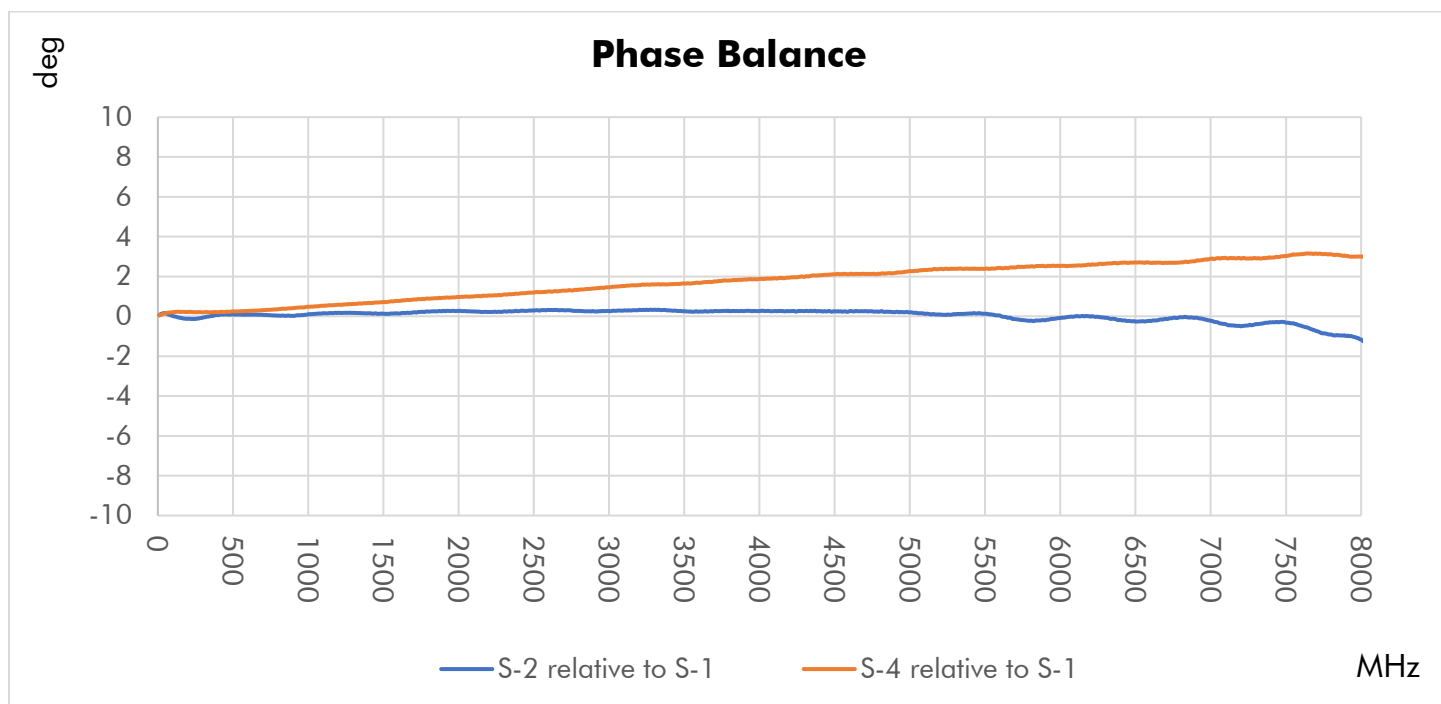
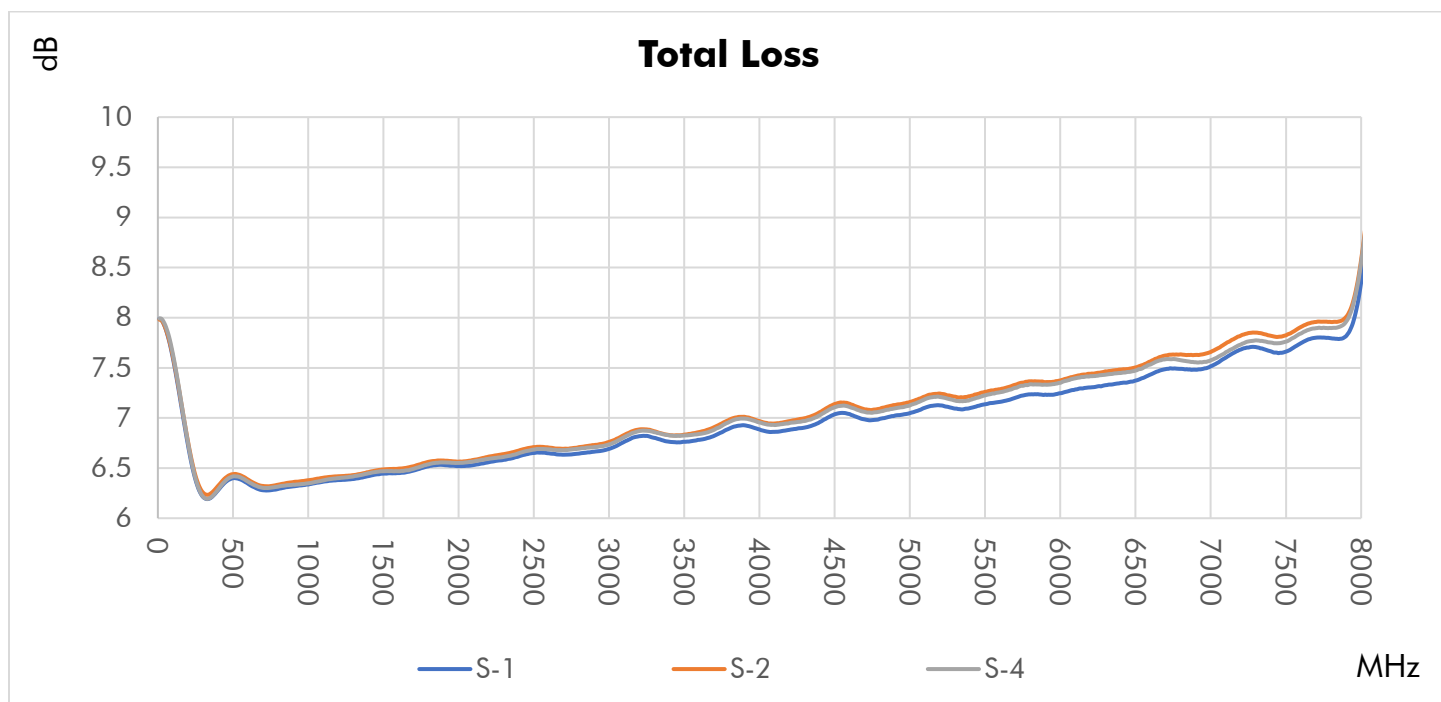
Virgin PTFE

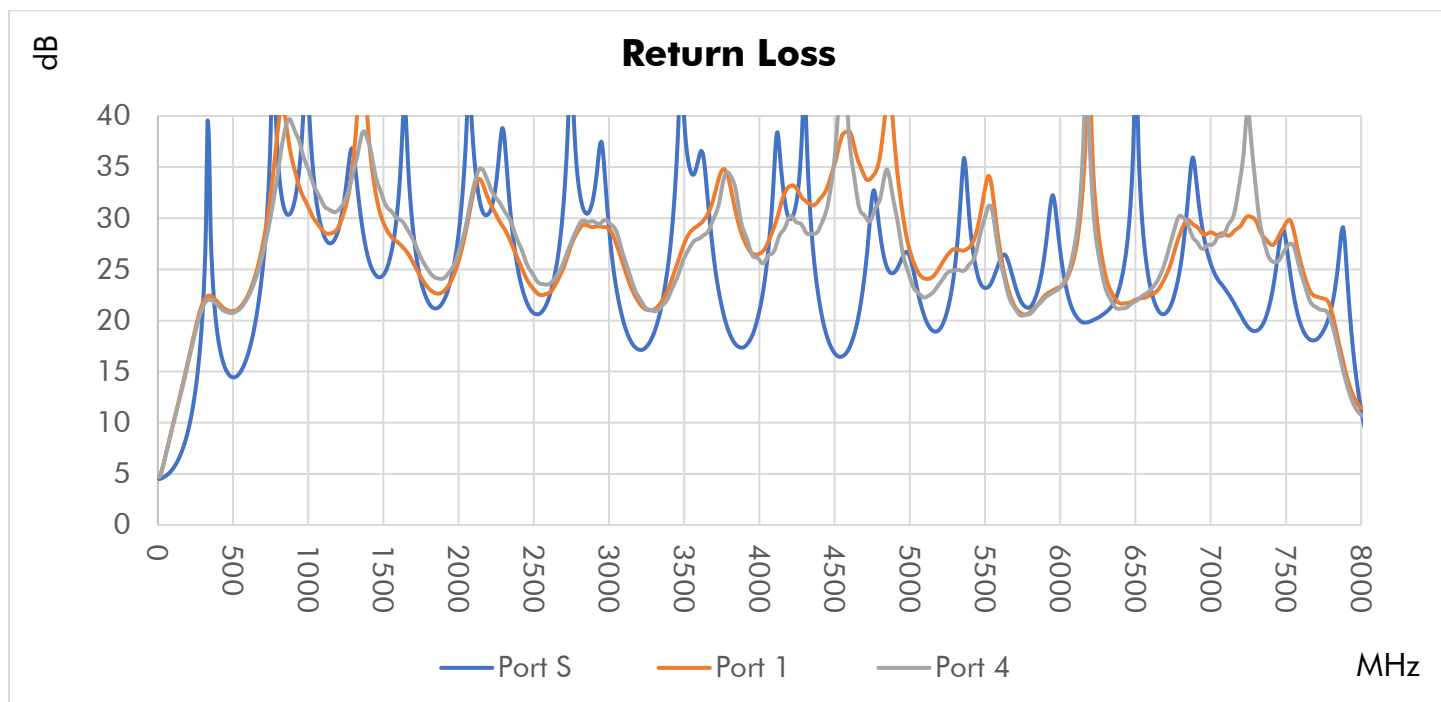
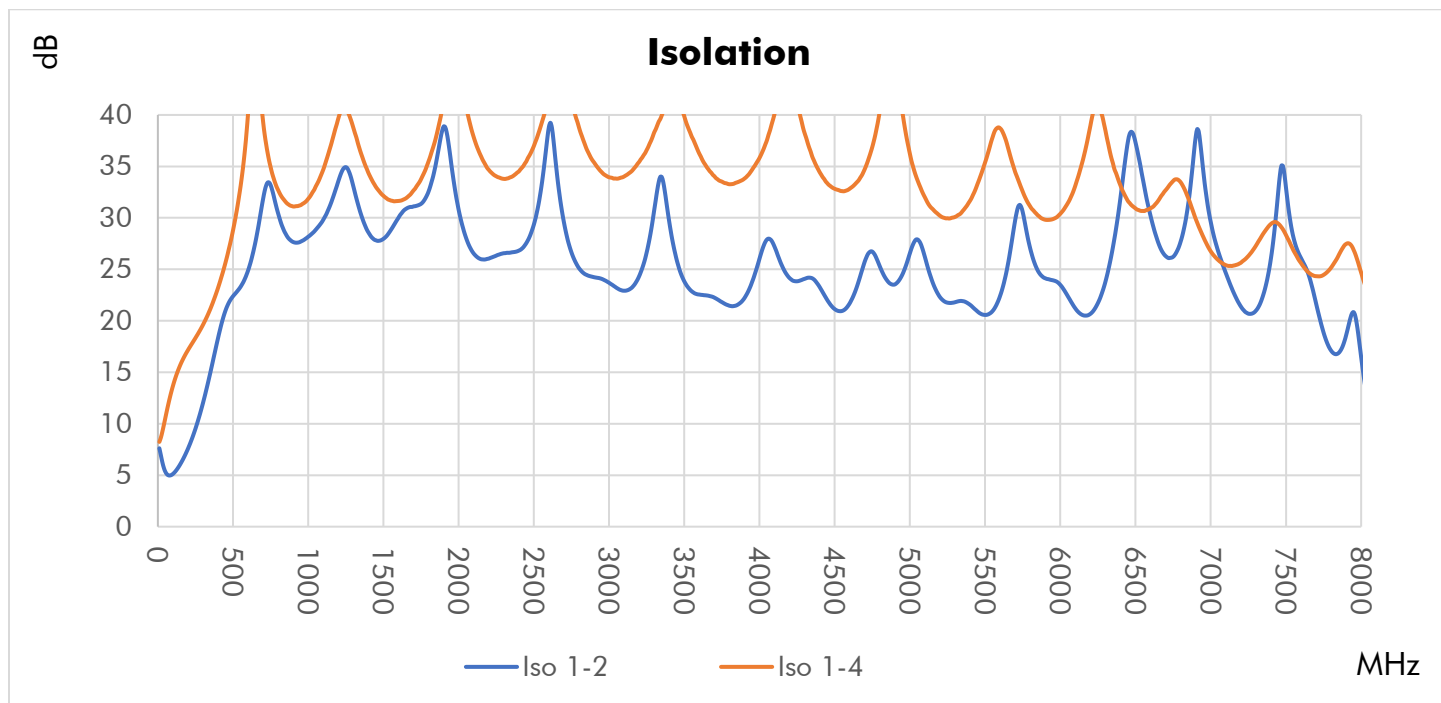
Black Paint

USA

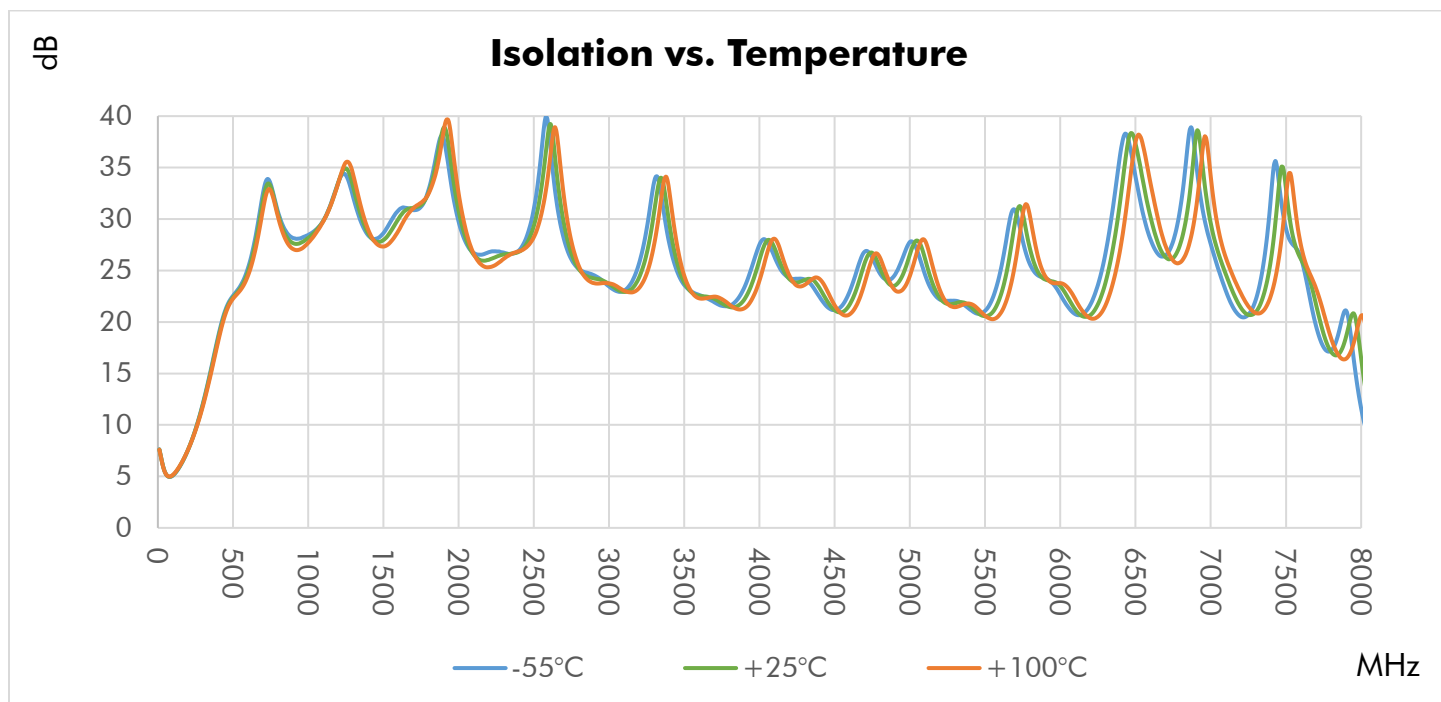
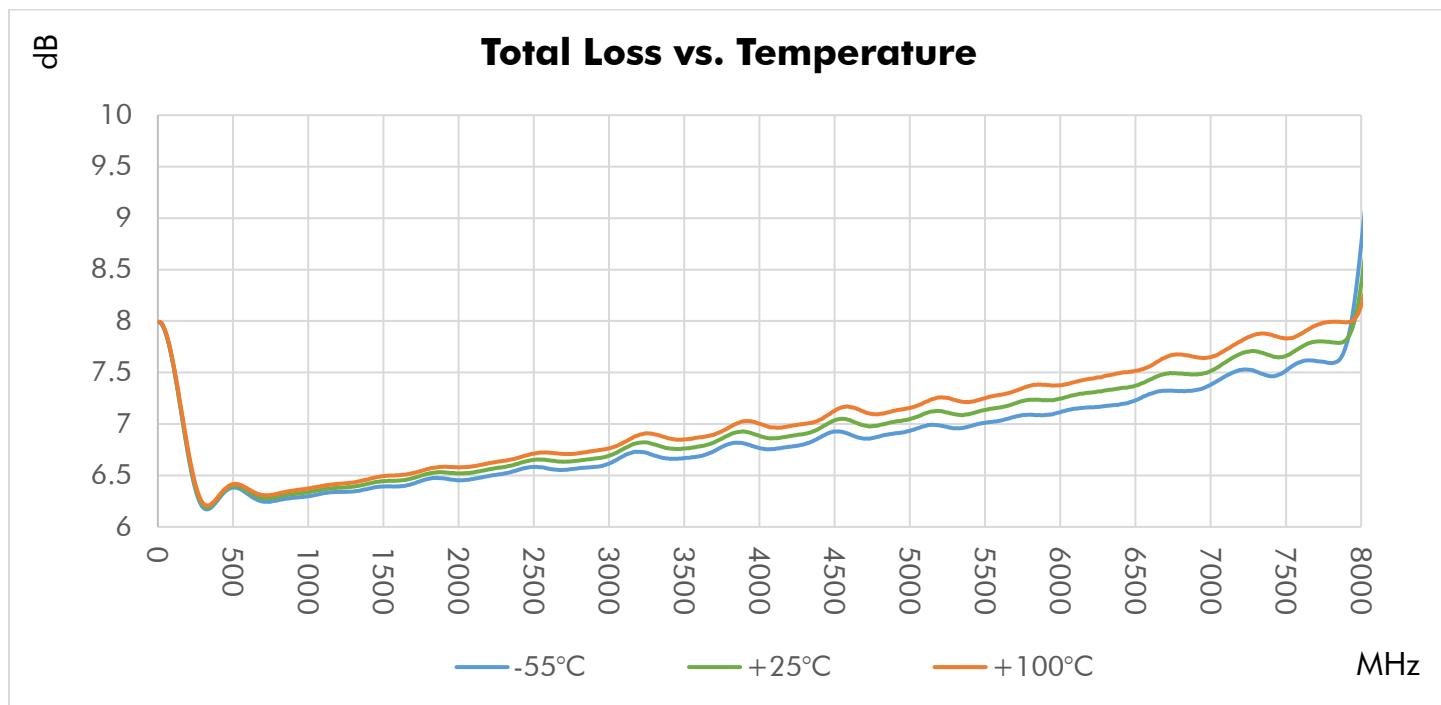
1. With reference to average.
2. All output ports should be terminated in a 50-ohm load with 1.2:1 max VSWR.
3. Electrical specifications are tested at +25 °C.
4. To the best of our knowledge at the time of publication.

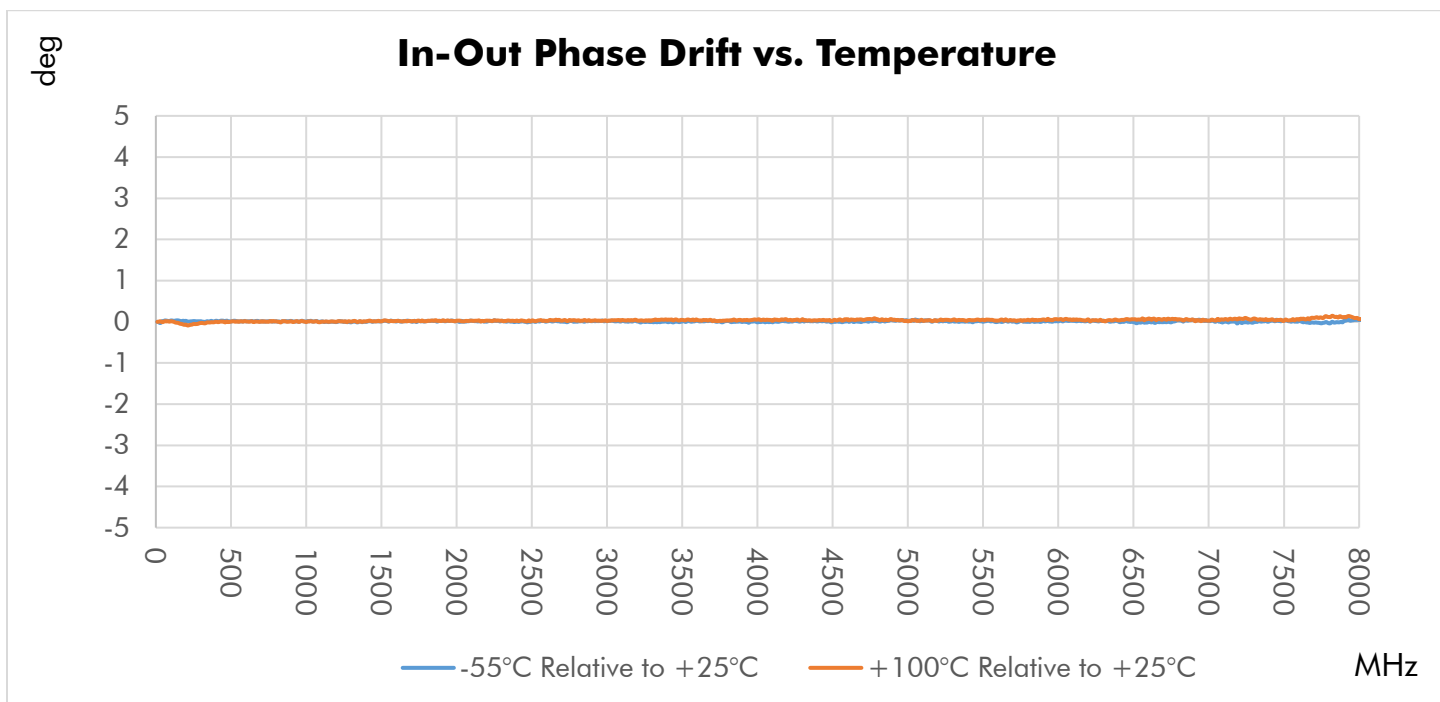
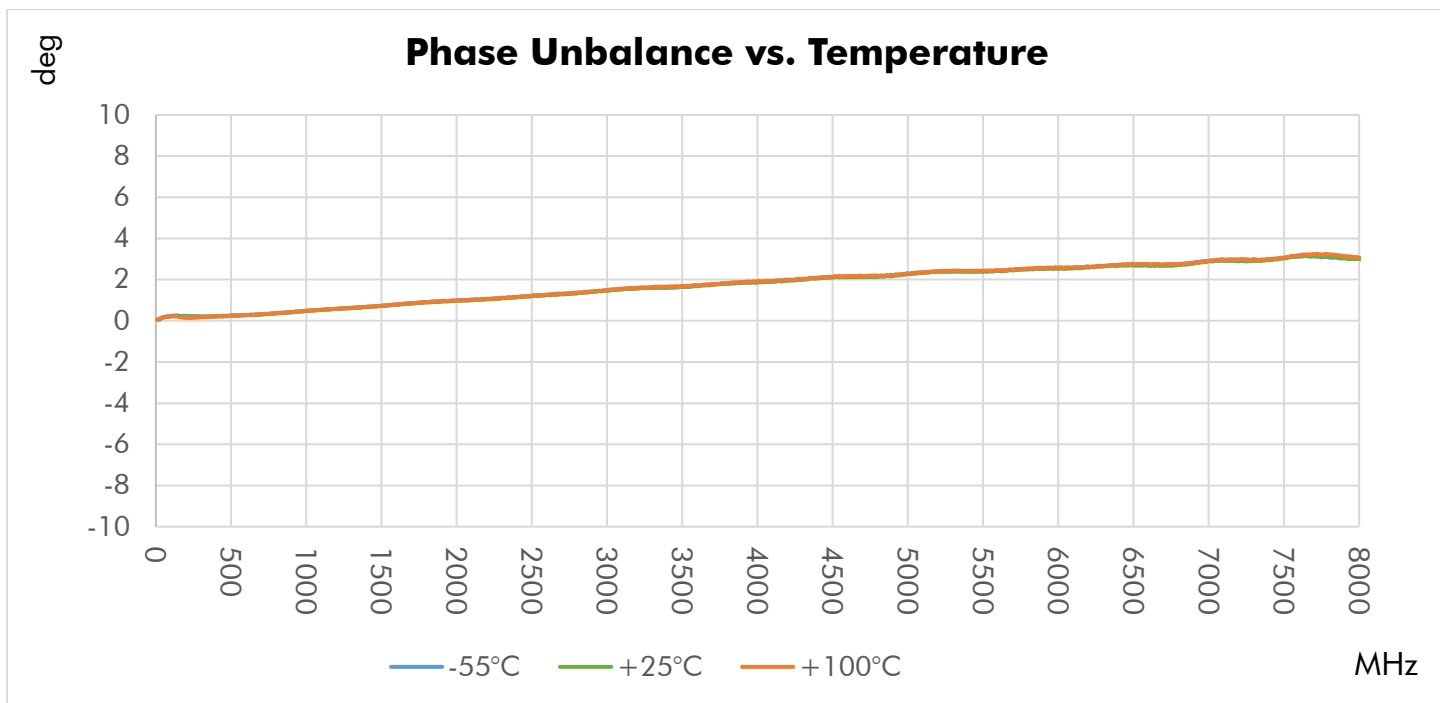
Typical Performance at +25 °C (Individual Units)

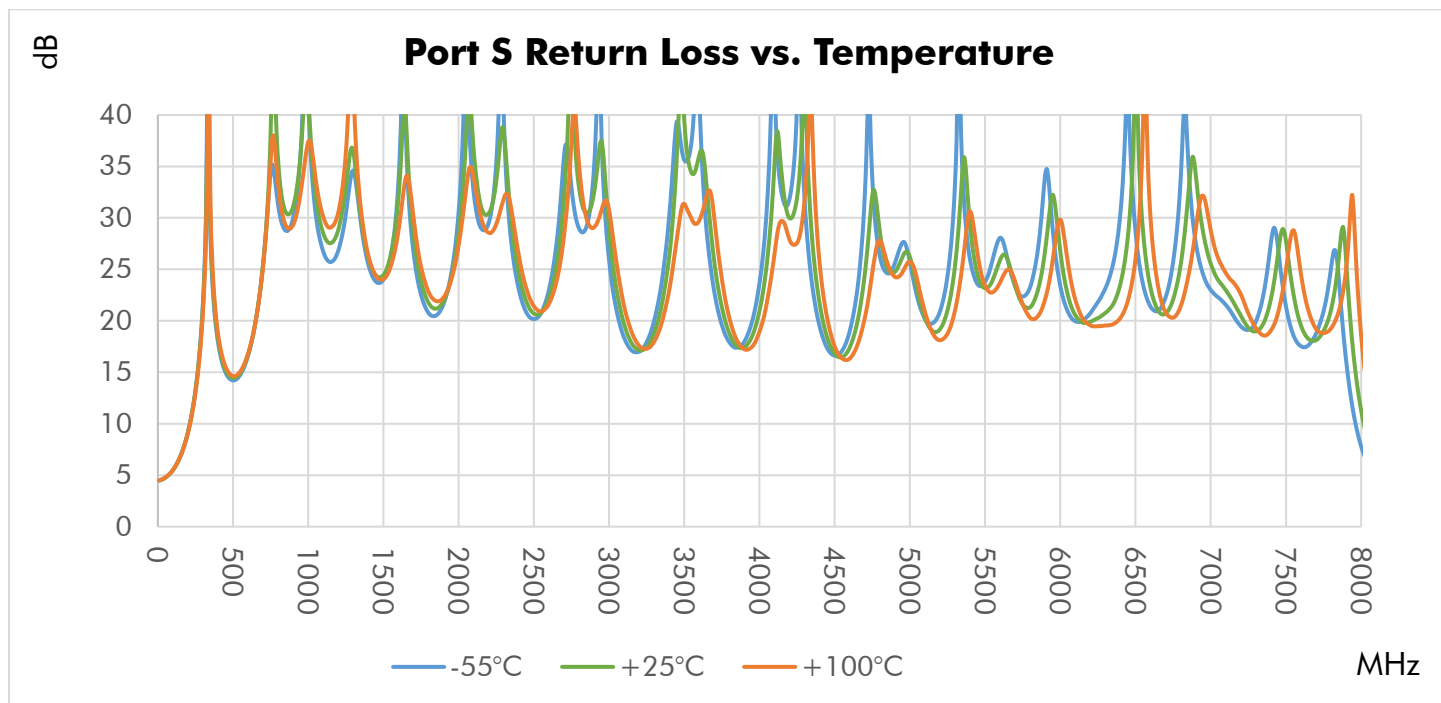




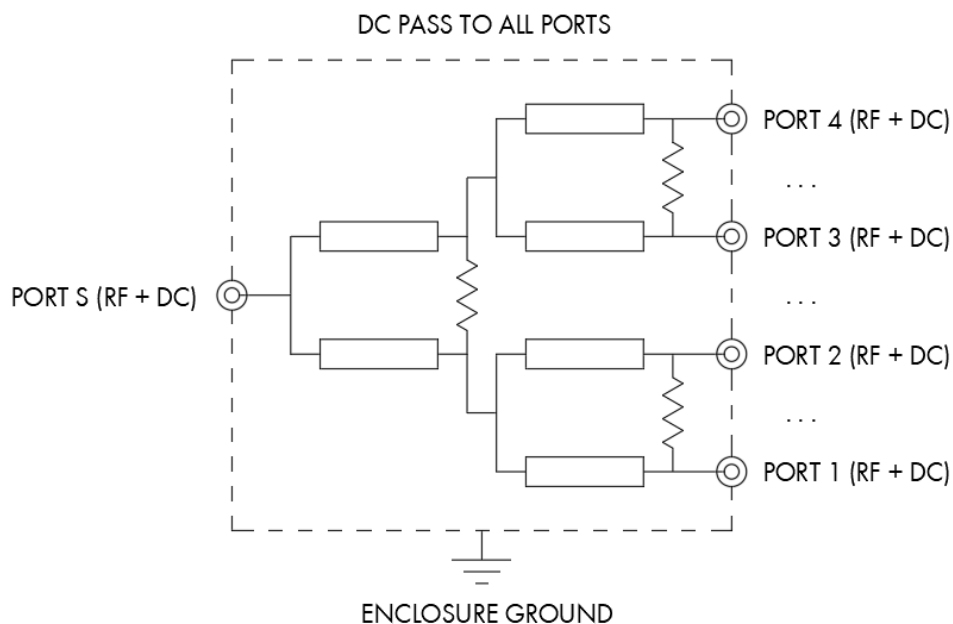
Typical Performance Over Temperature







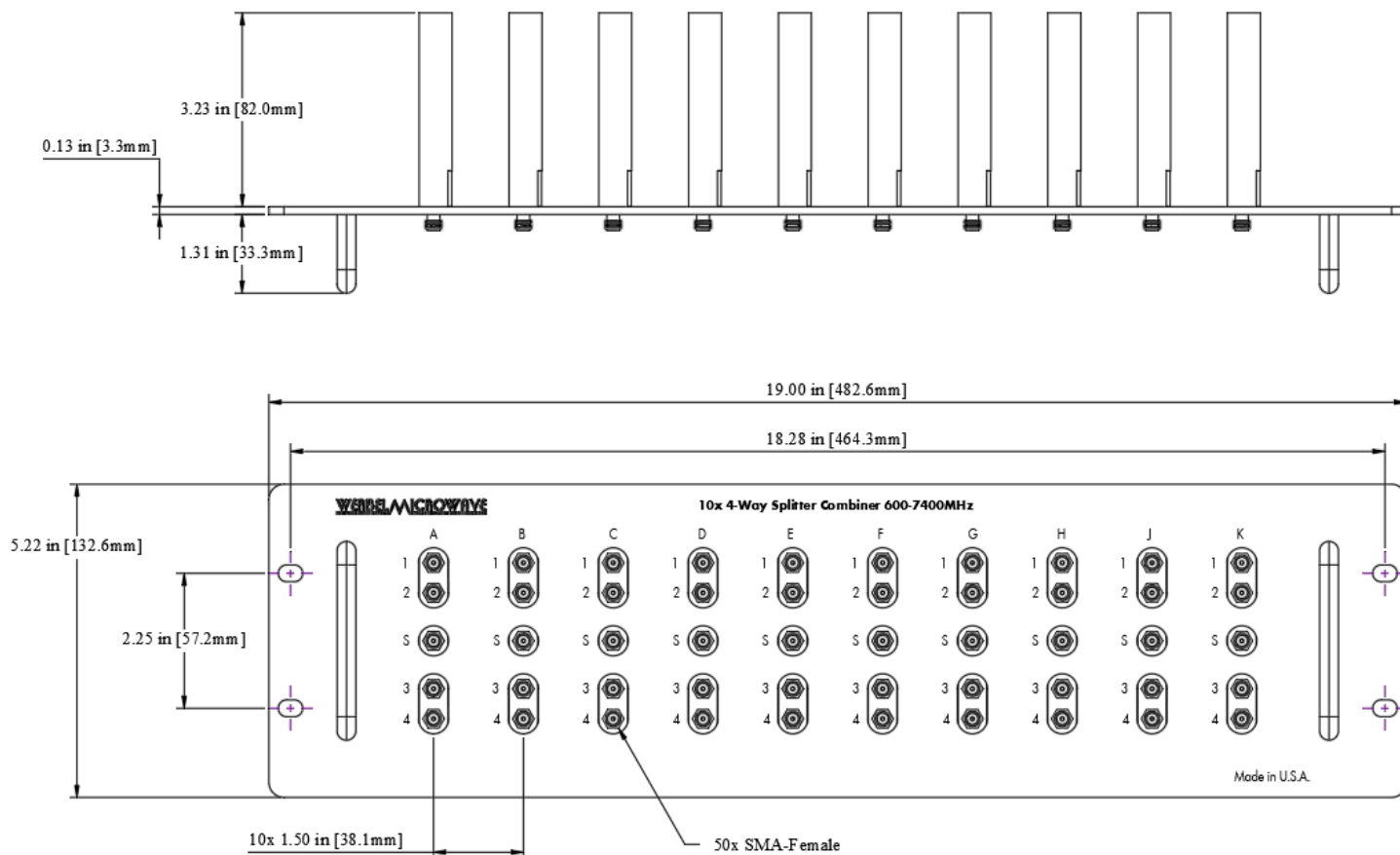
Simplified Electrical Schematic



Typical Performance Data

Frequency (MHz)	Total Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	Return Loss (dB)		
	S-1	S-4				Port S	Port 1	Port 4
500	6.4	6.4	0.02	22.1	0.0	14.9	21.0	14.9
700	6.3	6.4	0.01	34.5	0.3	27.8	27.7	27.9
900	6.4	6.4	0.01	27.5	0.2	28.3	35.1	28.3
1100	6.4	6.4	0.02	28.3	0.1	26.1	28.8	26.1
1300	6.4	6.5	0.02	32.0	0.2	32.6	34.1	32.6
1500	6.5	6.5	0.02	26.9	0.1	24.3	30.9	24.2
1700	6.5	6.5	0.01	28.3	0.1	24.9	25.4	24.8
1900	6.6	6.6	0.00	38.7	0.2	22.7	23.3	22.8
2100	6.6	6.6	0.01	26.0	0.2	31.4	32.7	31.4
2300	6.6	6.7	0.02	24.3	0.2	28.8	30.2	28.8
2500	6.7	6.7	0.02	29.1	0.2	20.5	23.1	20.5
2700	6.7	6.7	0.02	30.7	0.2	32.3	25.3	32.4
2900	6.7	6.7	0.01	22.5	0.2	32.7	34.0	32.8
3100	6.8	6.8	0.01	22.1	0.4	19.4	25.3	19.4
3300	6.9	6.9	0.03	27.9	0.3	19.6	20.9	19.6
3500	6.8	6.9	0.02	24.0	0.3	29.0	25.2	29.0
3700	6.9	6.9	0.01	21.7	0.3	25.5	32.6	25.4
3900	7.0	7.0	0.02	21.5	0.4	20.2	30.5	20.2
4100	7.0	7.0	0.03	27.8	0.3	23.5	25.8	23.6
4300	7.0	7.0	0.03	23.7	0.3	30.8	29.9	30.7
4500	7.1	7.1	0.03	21.6	0.3	20.6	32.8	20.6
4700	7.1	7.1	0.03	23.3	0.5	19.8	33.7	19.8
4900	7.1	7.1	0.05	23.9	0.4	32.0	32.0	32.2
5100	7.1	7.2	0.05	27.8	0.5	24.0	22.0	23.9
5300	7.2	7.3	0.06	20.5	0.5	18.7	26.0	18.7
5500	7.2	7.3	0.06	20.5	0.6	30.5	29.7	30.5
5700	7.3	7.3	0.06	24.3	0.7	25.4	22.4	25.6
5900	7.4	7.4	0.06	24.5	0.8	19.6	19.8	19.7
6100	7.3	7.4	0.07	21.3	0.6	29.6	26.2	29.9
6300	7.4	7.5	0.08	21.5	0.4	18.9	27.2	18.9
6500	7.5	7.6	0.06	30.2	0.5	19.0	19.8	18.9
6700	7.5	7.6	0.06	27.5	0.3	30.5	24.6	30.7
6900	7.6	7.7	0.07	28.5	0.2	21.1	30.4	21.1
7100	7.6	7.7	0.05	21.9	0.3	22.6	23.5	22.7
7300	7.7	7.8	0.06	21.8	0.6	30.0	29.7	30.0
7500	7.9	7.9	0.05	27.4	0.7	15.8	29.1	15.8
7700	7.9	7.9	0.07	20.6	0.9	19.6	25.3	19.6
7900	7.9	8.0	0.06	18.6	0.7	19.8	15.2	19.8

Outline Dimensions



Outline drawing: OL-U-4-10CT-4974

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

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

The information contained in this document is accurate to the best of our knowledge and representative of the product described herein at the date of publication. It may be necessary to make modifications to the product and/or documentation of the product. Werbel Microwave LLC reserves the right to make such changes as required without notice. Unless otherwise stated, all specifications and dimensions are nominal. Werbel Microwave LLC does not make any representation or warranty regarding the suitability of the product described herein for any particular purpose or application, and Werbel Microwave LLC does not assume any liability arising out of the use of any part of documentation. This document gives only a description of the product(s) and shall not form part of any contract. Please contact a Werbel Microwave LLC Applications Engineer for the most current specification drawing.

Reliability testing was performed as an internal requalification of the product to substantiate the published specifications, which were previously arrived at by calculation and/or similarity to existing products. The results of these tests are provided as a courtesy and shall not form part of a contract or warranty. While reliability tests may depict the product being tested beyond the published specification ratings for the purpose of stress testing the product, this does not imply that the product should be operating above the rated limits for any length of time. Specifications related to reliability (e.g., performance over temperature, power handling, DC current, HI-POT) are "designed to meet" and are not individually tested in production of commercially available products. Please contact a Werbel Microwave LLC Applications Engineer if specific reliability testing is needed on a particular product.