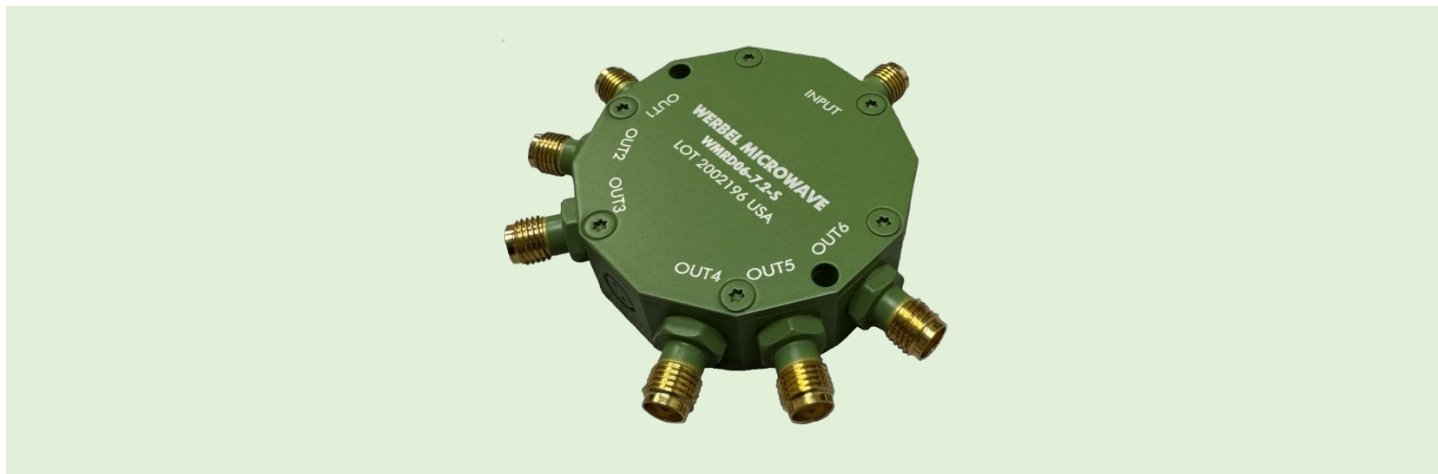


Resistive Divider, DC-7.2GHz, 6-way, SMA-Female

WMRD06-7.2-S



Specifications	Min.	Typ.	Max.	Units
Frequency	DC		7.2	GHz
Impedance		50		Ohm
Return Loss (Port S)	9.5	12		dB
Return Loss (Port 1-6)	9.5	14		dB
Insertion Loss (Total Measured Loss)		15.6	17.8	dB
Isolation (Within Groups: 1-2-3 and 4-5-6) (Between Groups: 1-2-3 and 4-5-6)		9.5 25.0		dB
Input Power (CW) ¹ up to +30°C; derate linearly to +25dBm at +85°C.			+30	dBm

Connector Interface SMA-Female

Operating Temperature² -40 to +85 °C

Storage Temperature -55 to +100 °C

Nominal Weight 54.5 g (1.92 oz)

Operating Humidity 10-90% (non-condensing)

Operating Environment Indoor Use Only

CAGE Code 78YZ0

RoHS Status³

REACH Status³

Enclosure Material

Connectors Material

Contacts Material

Insulators Material

Finish

RoHS3 Compliant

REACH Unaffected

Aluminum

Brass, Gold Plated

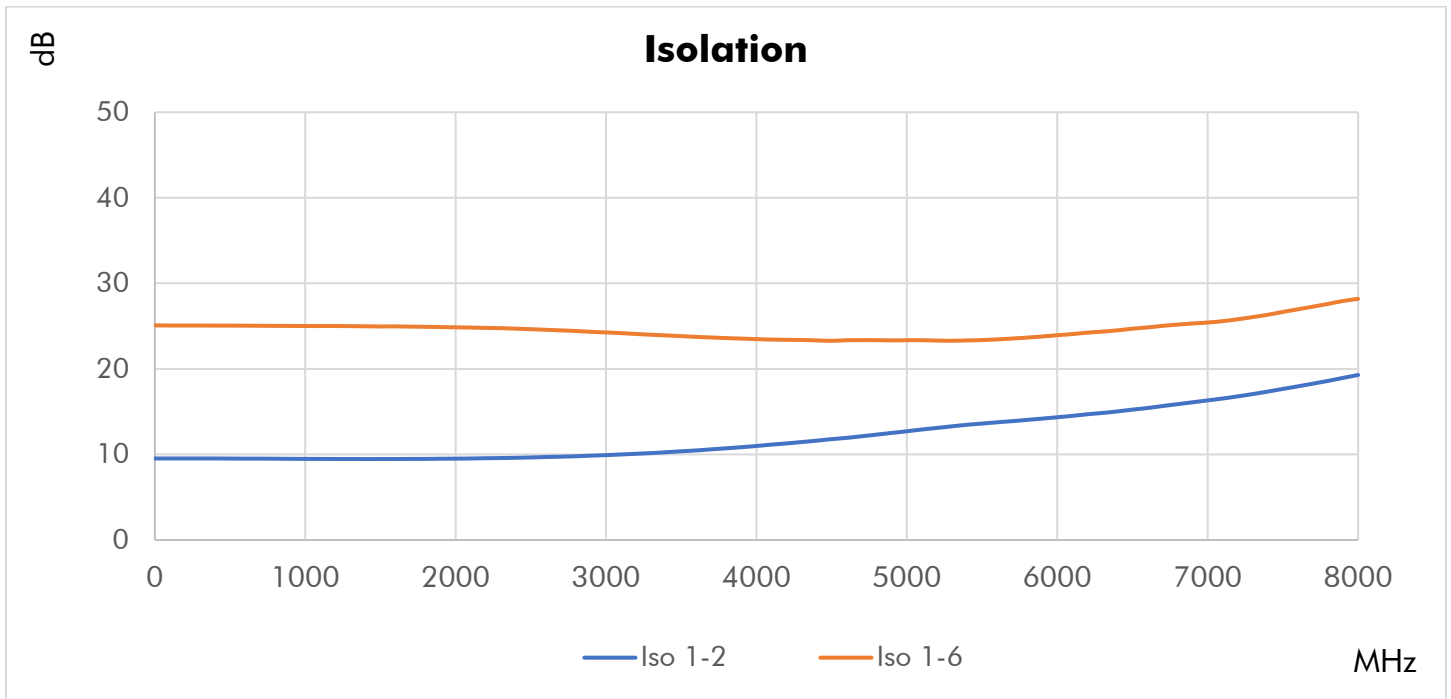
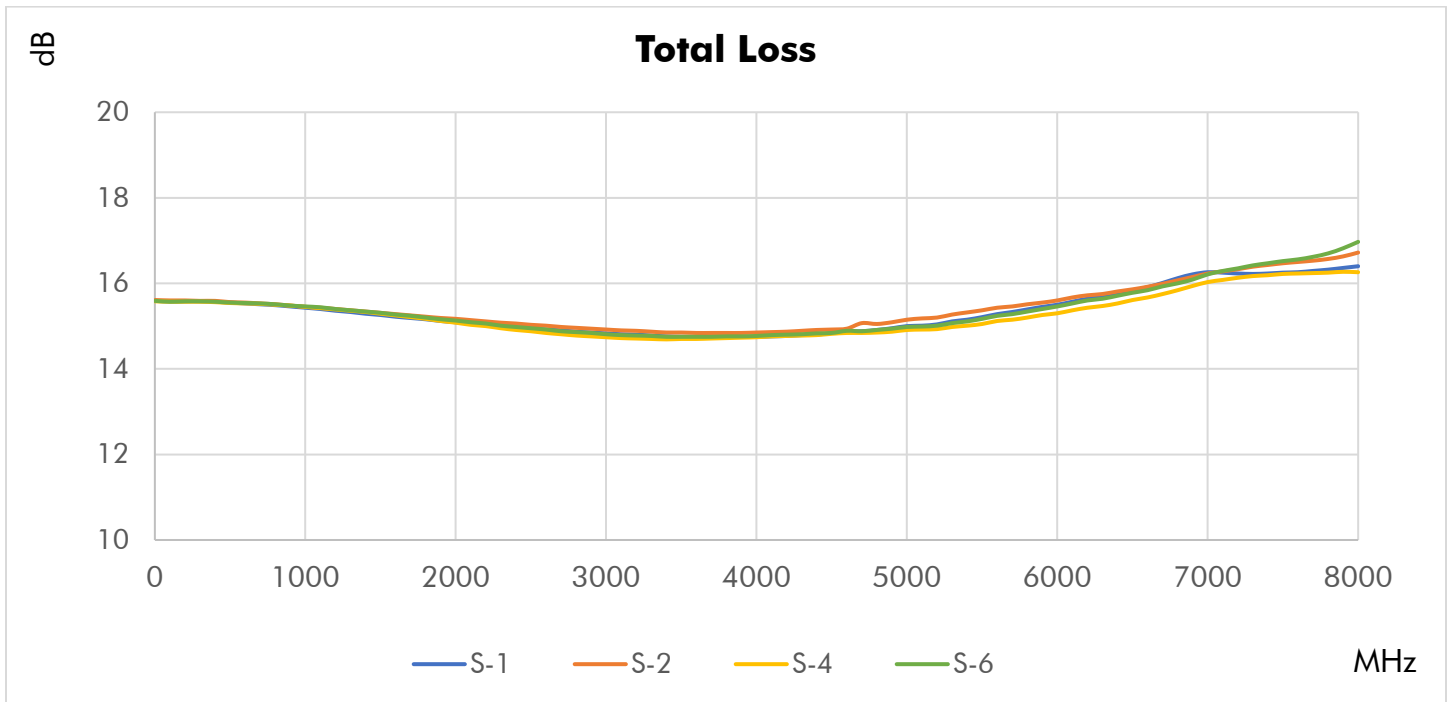
Beryllium Copper, Gold Plated

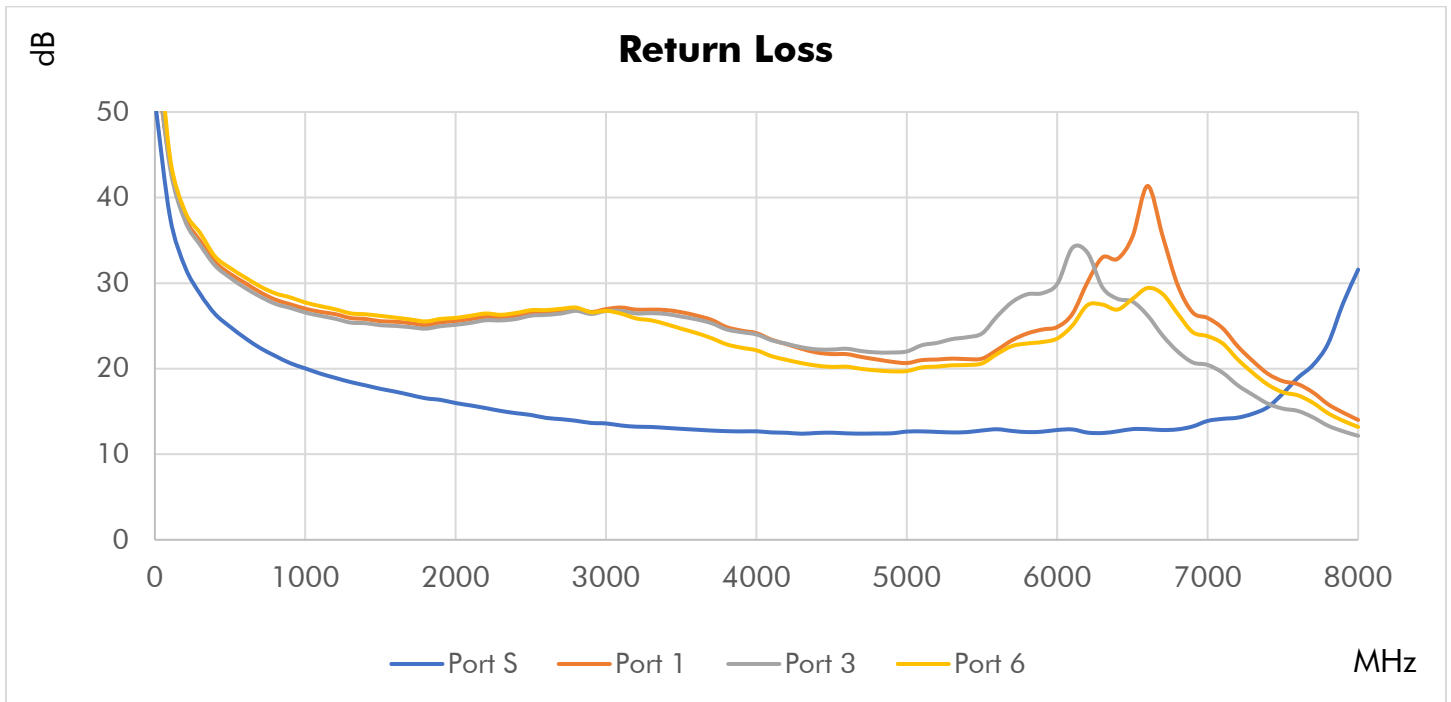
Virgin PTFE

Green Paint

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





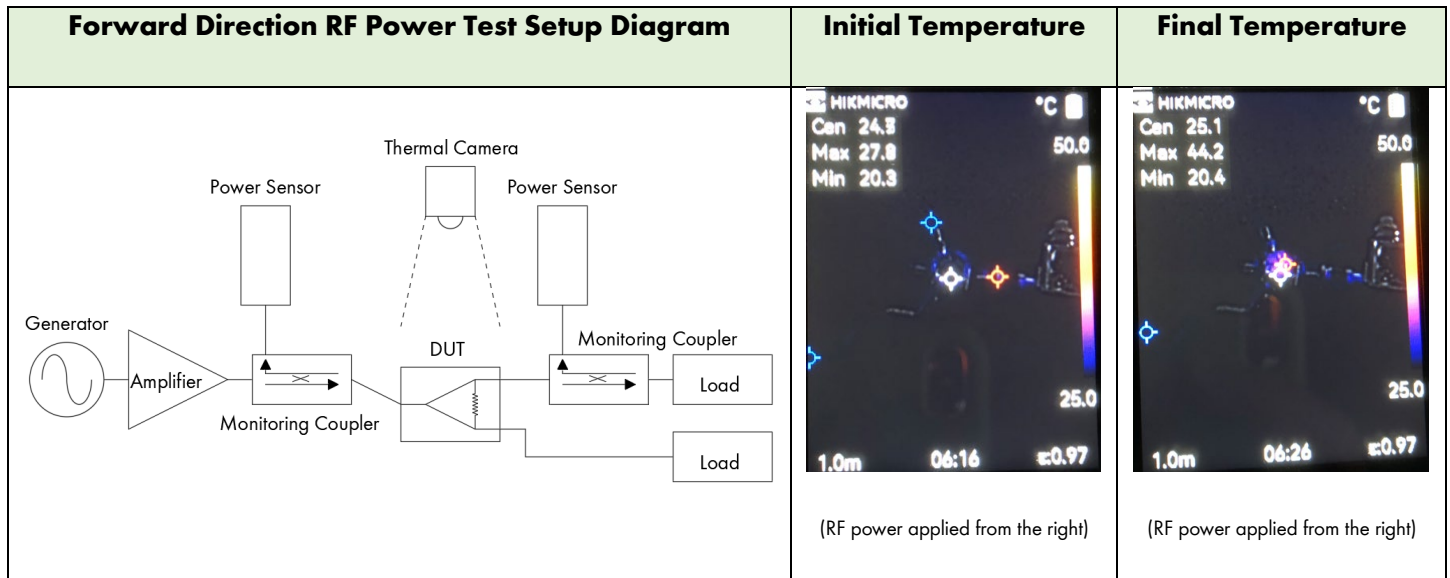
Repeatability in Production



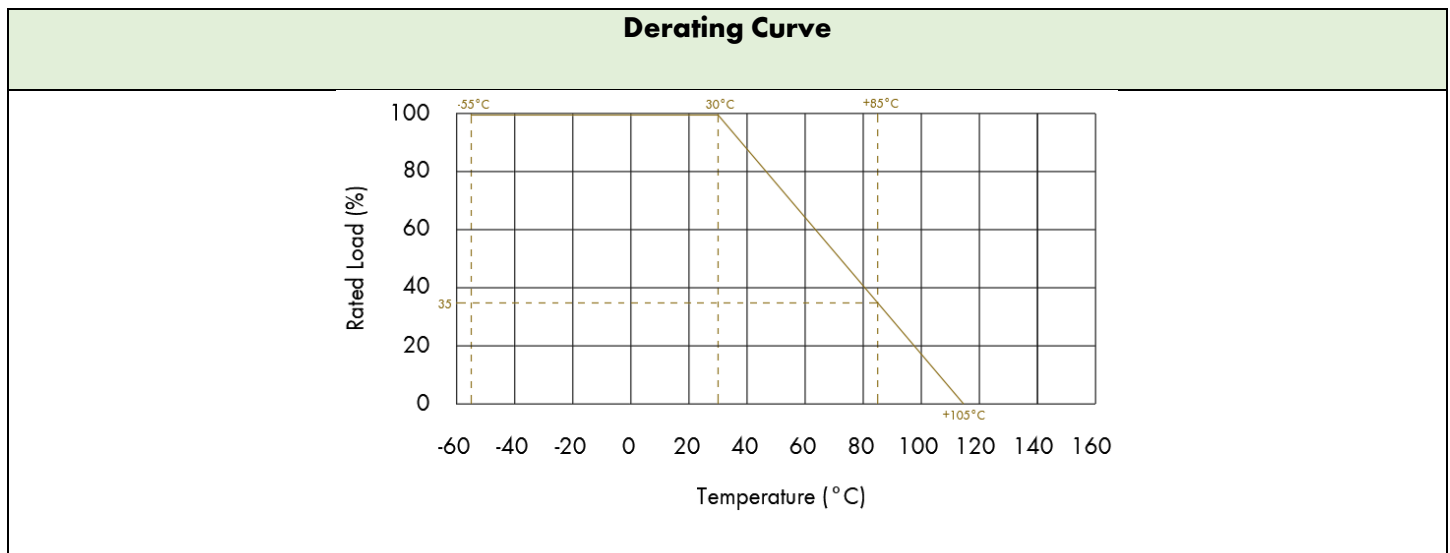
Reliability Testing

RF power test was performed to determine the input power required to produce a nominal temperature rise of 20°C at the hottest point. The test was performed at room temperature without forced air. A heatsink was not used unless it came standard with the product.

Model WMRD03-7.2-S is shown. Derivative models' details arrived at by similarity until they are individually tested and datasheets updated.



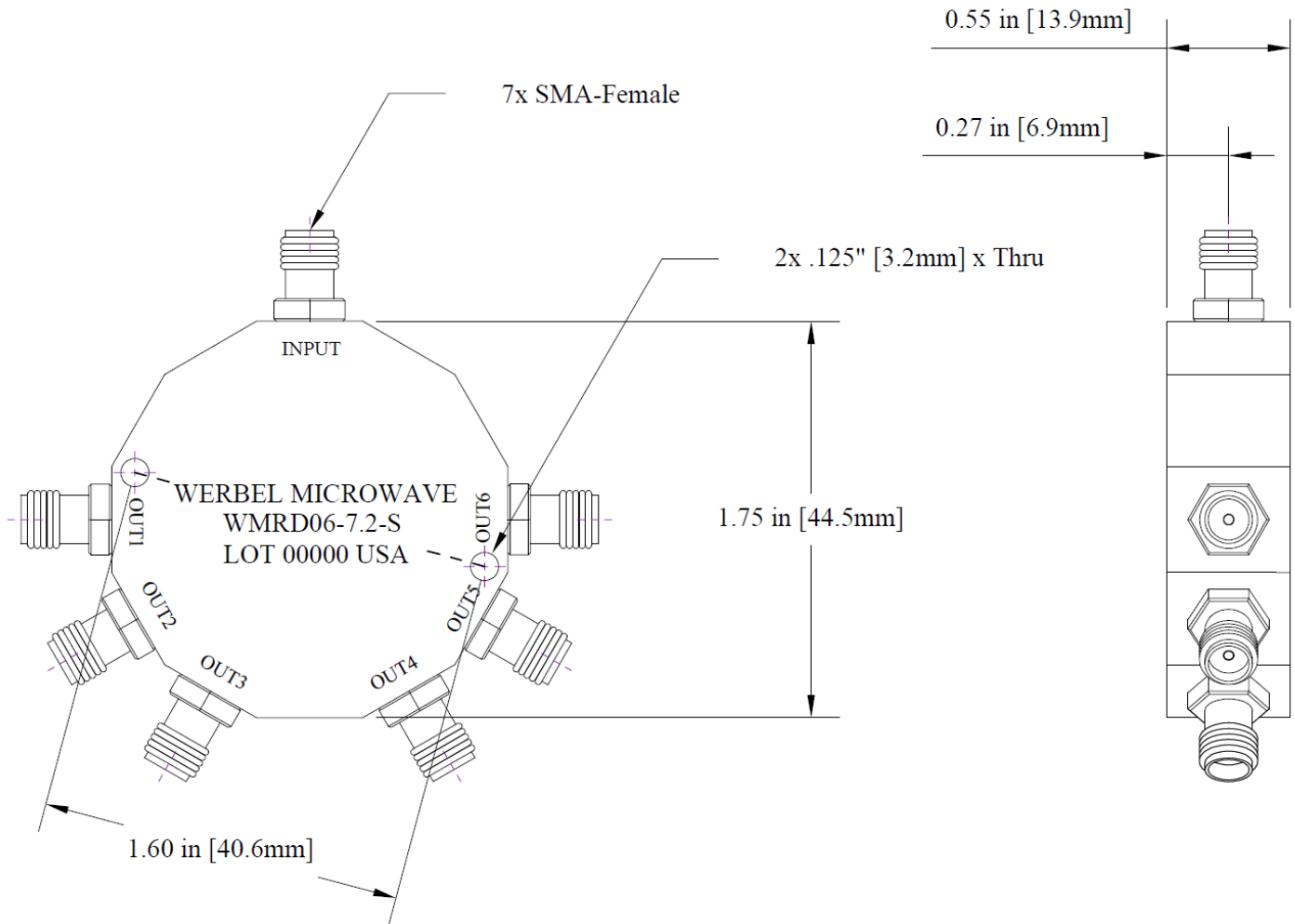
- 0.6 watts CW (shown above) at 500MHz was applied to the DUT input for a duration of 10 minutes.
- The DUT temperature increased from 24.3°C (initial, center marker) to 44.2°C (final, max marker), resulting in a 19.9°C rise.
- 1 watt CW at 500MHz produced a rise temperature of 35°C after 10 minutes.



Typical Performance Data

Frequency (MHz)	Return Loss (dB)			Total Loss (dB)		Isolation (dB)	
	Port S	Port 1	Port 6	S-1	S-6	1-2	1-6
1	51.24	56.57	63.41	15.59	15.59	9.53	25.09
100	37.71	44.06	44.66	15.58	15.57	9.53	25.07
200	31.88	37.67	38.36	15.58	15.58	9.53	25.07
300	28.74	34.94	35.86	15.58	15.58	9.53	25.07
400	26.38	32.47	33.10	15.57	15.57	9.53	25.06
500	24.89	31.08	31.76	15.55	15.55	9.52	25.06
600	23.57	30.00	30.66	15.53	15.54	9.51	25.05
700	22.41	28.93	29.61	15.51	15.53	9.51	25.04
800	21.49	28.07	28.80	15.49	15.51	9.50	25.03
900	20.64	27.53	28.33	15.46	15.48	9.49	25.02
1000	20.03	27.01	27.73	15.43	15.46	9.48	25.01
1500	17.64	25.55	26.17	15.26	15.31	9.47	24.96
2000	15.98	25.57	25.94	15.09	15.13	9.51	24.86
2500	14.59	26.45	26.84	14.95	14.95	9.65	24.64
3000	13.60	26.97	26.77	14.83	14.81	9.92	24.26
3500	12.97	26.60	24.67	14.75	14.75	10.37	23.83
4000	12.68	24.15	22.14	14.75	14.77	10.99	23.48
4500	12.52	21.71	20.21	14.84	14.84	11.79	23.28
5000	12.65	20.66	19.73	15.00	14.98	12.71	23.35
5500	12.78	21.18	20.63	15.21	15.17	13.61	23.37
6000	12.84	24.88	23.54	15.50	15.46	14.35	23.94
6500	12.94	35.46	28.16	15.83	15.78	15.24	24.70
7000	13.90	25.92	23.80	16.26	16.21	16.32	25.42
7500	17.11	18.54	17.24	16.25	16.52	17.66	26.66
8000	31.58	14.01	13.19	16.40	16.97	19.29	28.19

Outline Dimensions



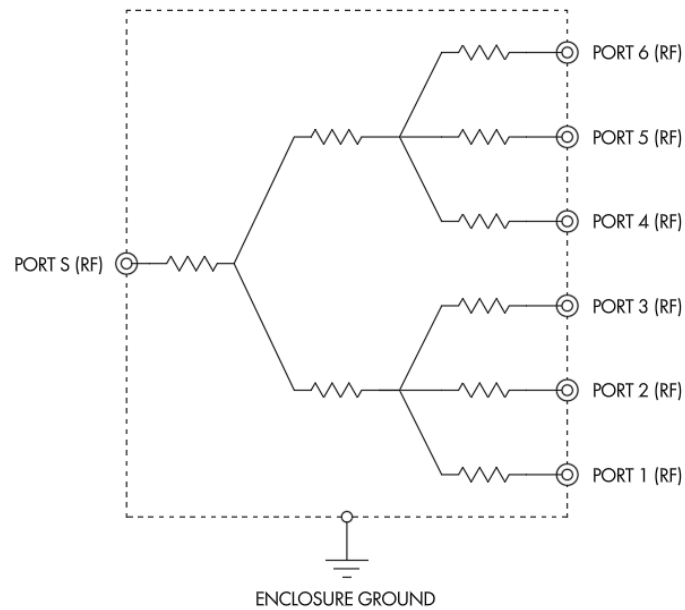
Outline drawing: OL-R12-06

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

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

Group	A			B		
Output	1	2	3	4	5	6

Functional Schematic



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.