

Power Divider, 8-way, 700-4000MHz, BNC Female,

WM8PD-0.7-4-B

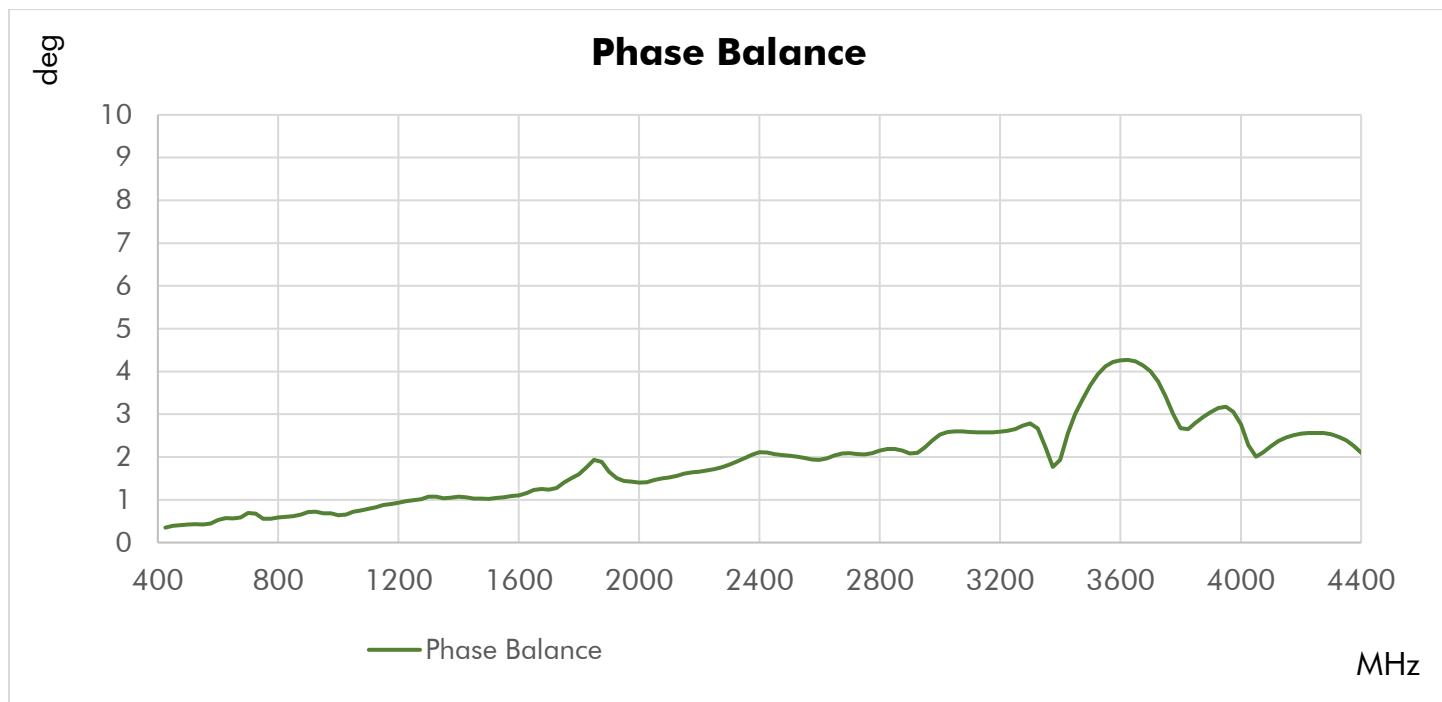
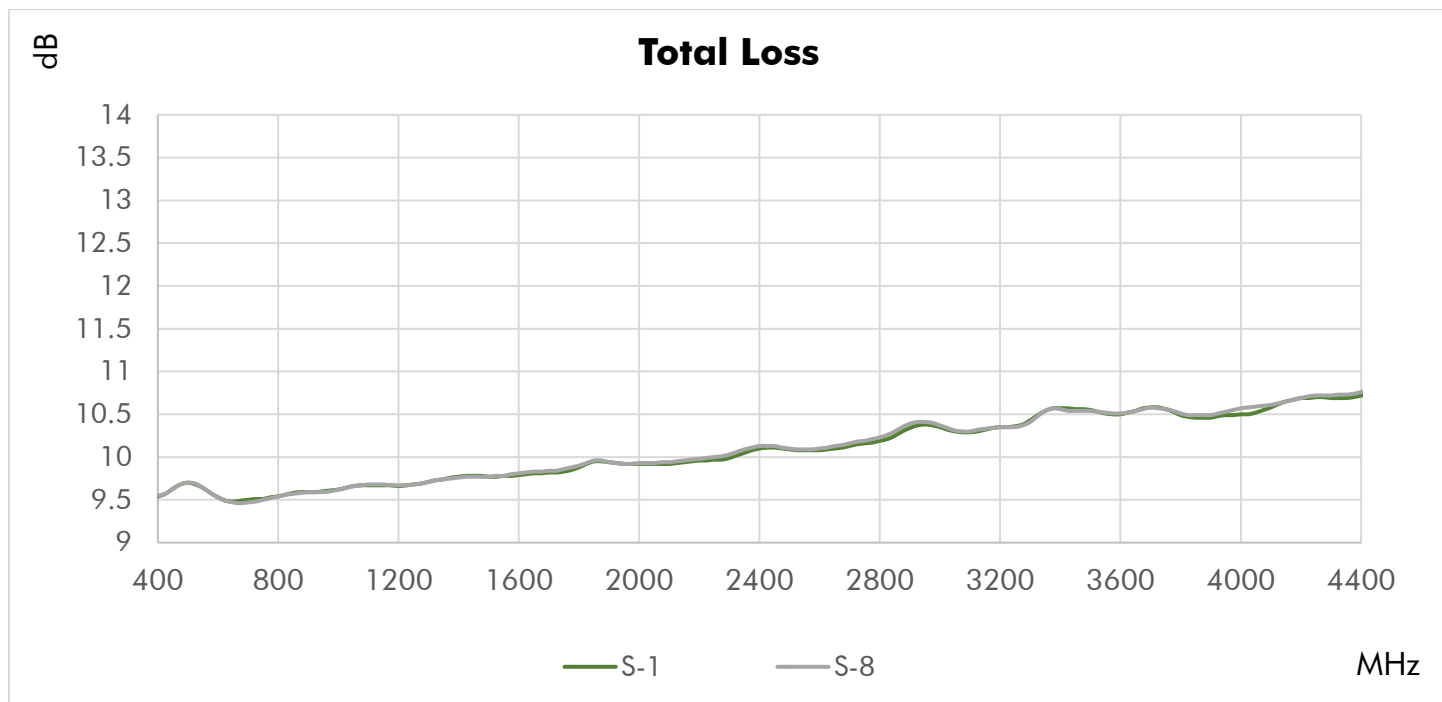


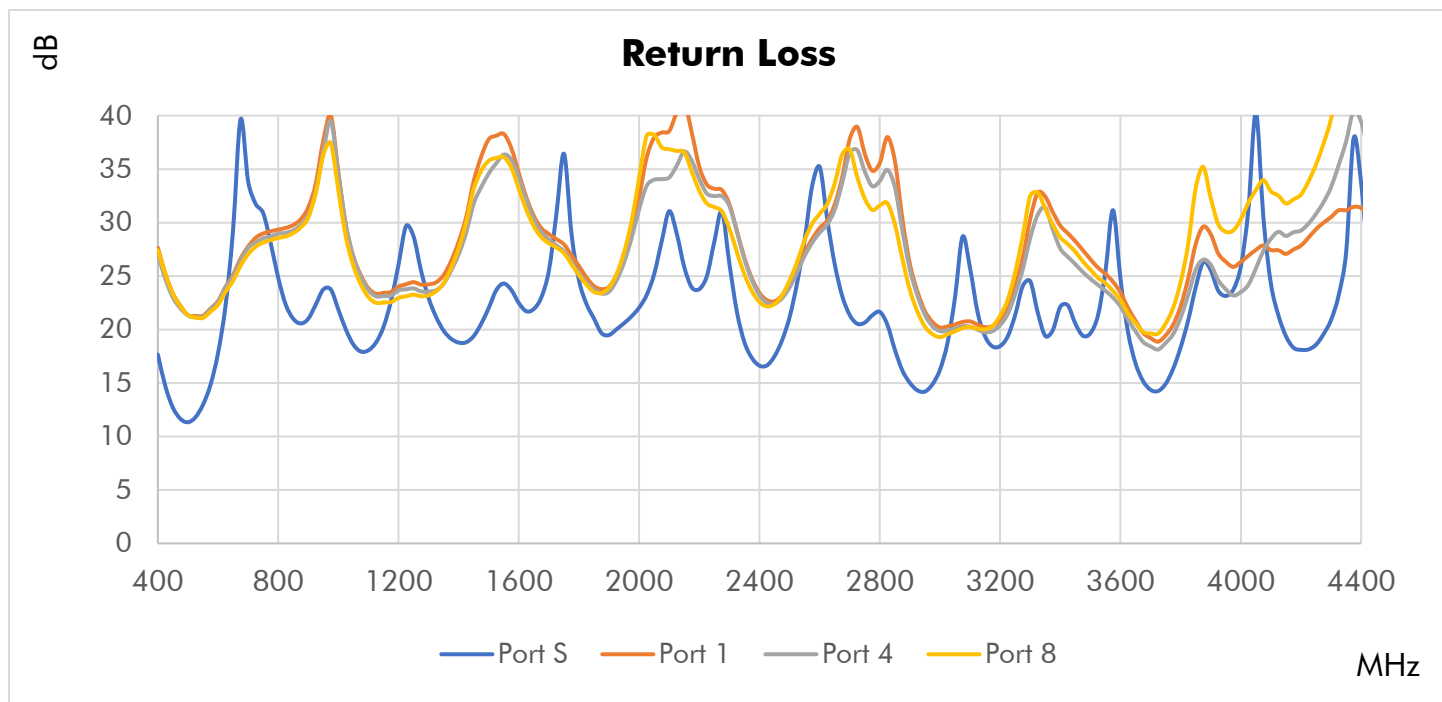
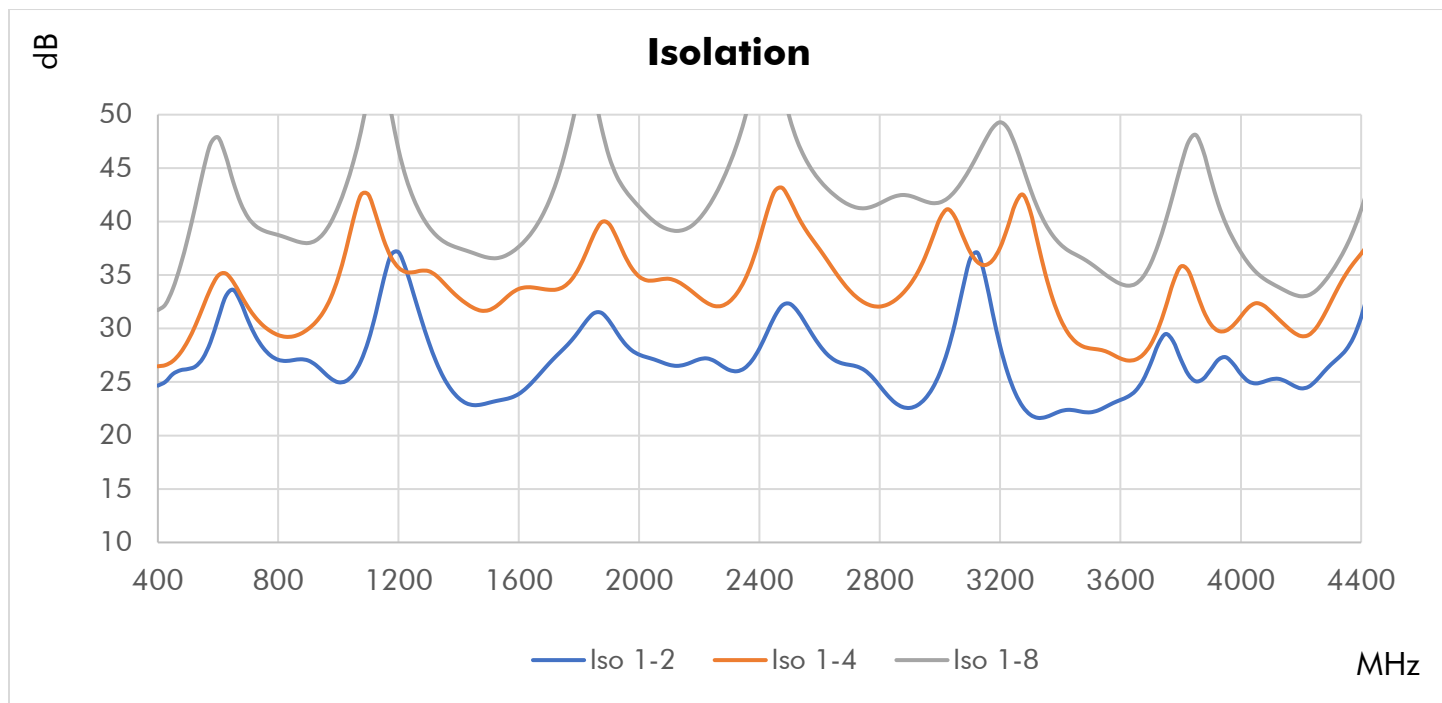
Parameter	Min.	Typ.	Max.	Unit
Frequency Range	700	-	4000	MHz
Impedance	50			Ohm
Return Loss (Port S)	12	15		dB
Return Loss (Ports 1-8)	14	20		dB
Insertion Loss (above 9.03dB)		1.5	2	dB
Isolation	17	22		dB
Amplitude Balance		0.3	0.8	dB
Phase Balance		6	12	Deg
Input Power (CW) ¹	30			W, max

Connector Interface	BNC-Female	RoHS Status ³	RoHS3 Compliant
Operating Temperature ²	-40 to +85 °C	REACH Status ³	REACH Unaffected
Storage Temperature	-55 to +100 °C	Enclosure Material	Aluminum
Nominal Weight	370 g (13 oz)	Connectors Material	Stainless Steel
Operating Humidity	10-90% (non-condensing)	Contacts Material	Beryllium Copper, Gold Plated
Operating Environment	Indoor Use Only	Insulators Material	Virgin PTFE
HTSUS Code	8548.00.0000	Finish	Green Paint
ECCN	EAR99	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 specification at +25 °C only.
3. To the best of our knowledge at the time of publication.

Typical Performance at +25 °C

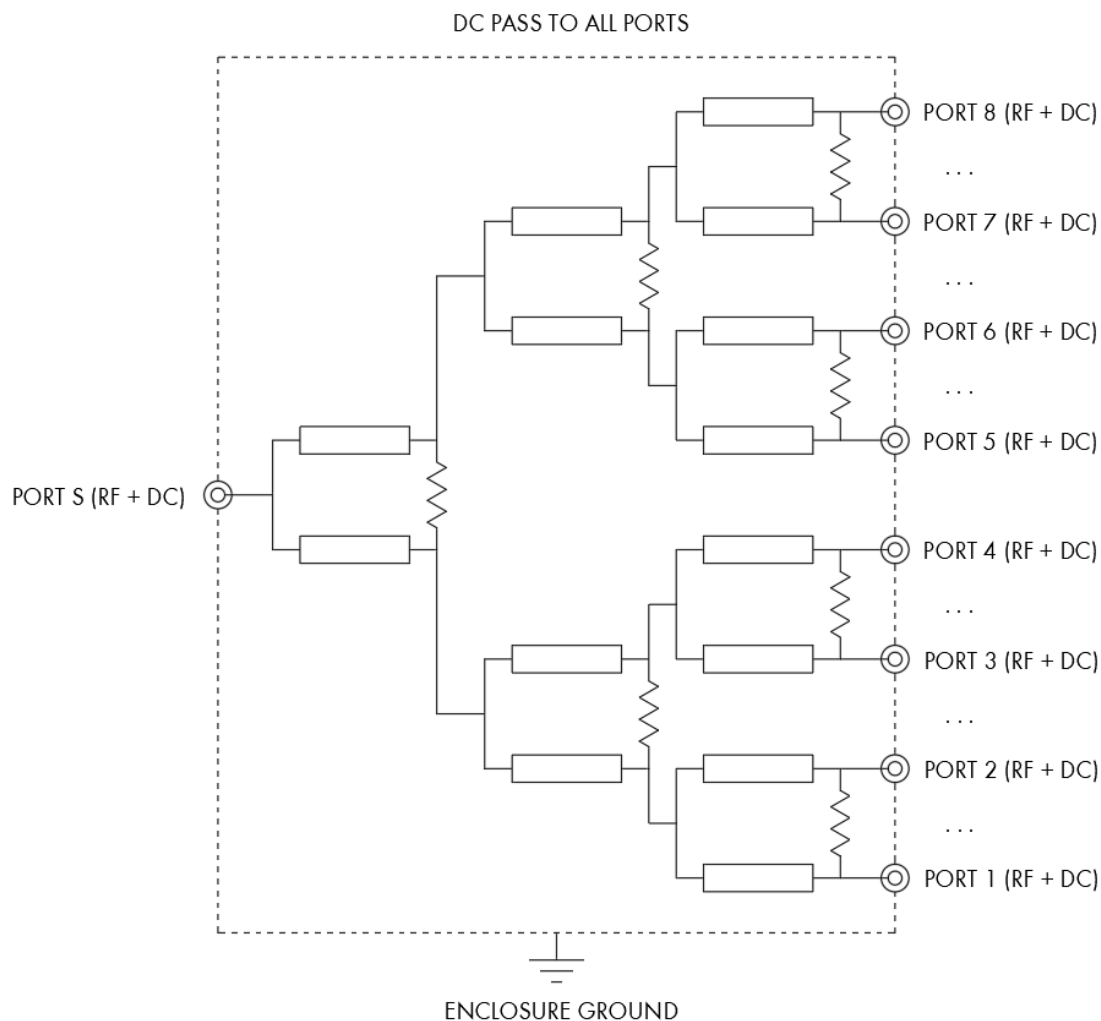




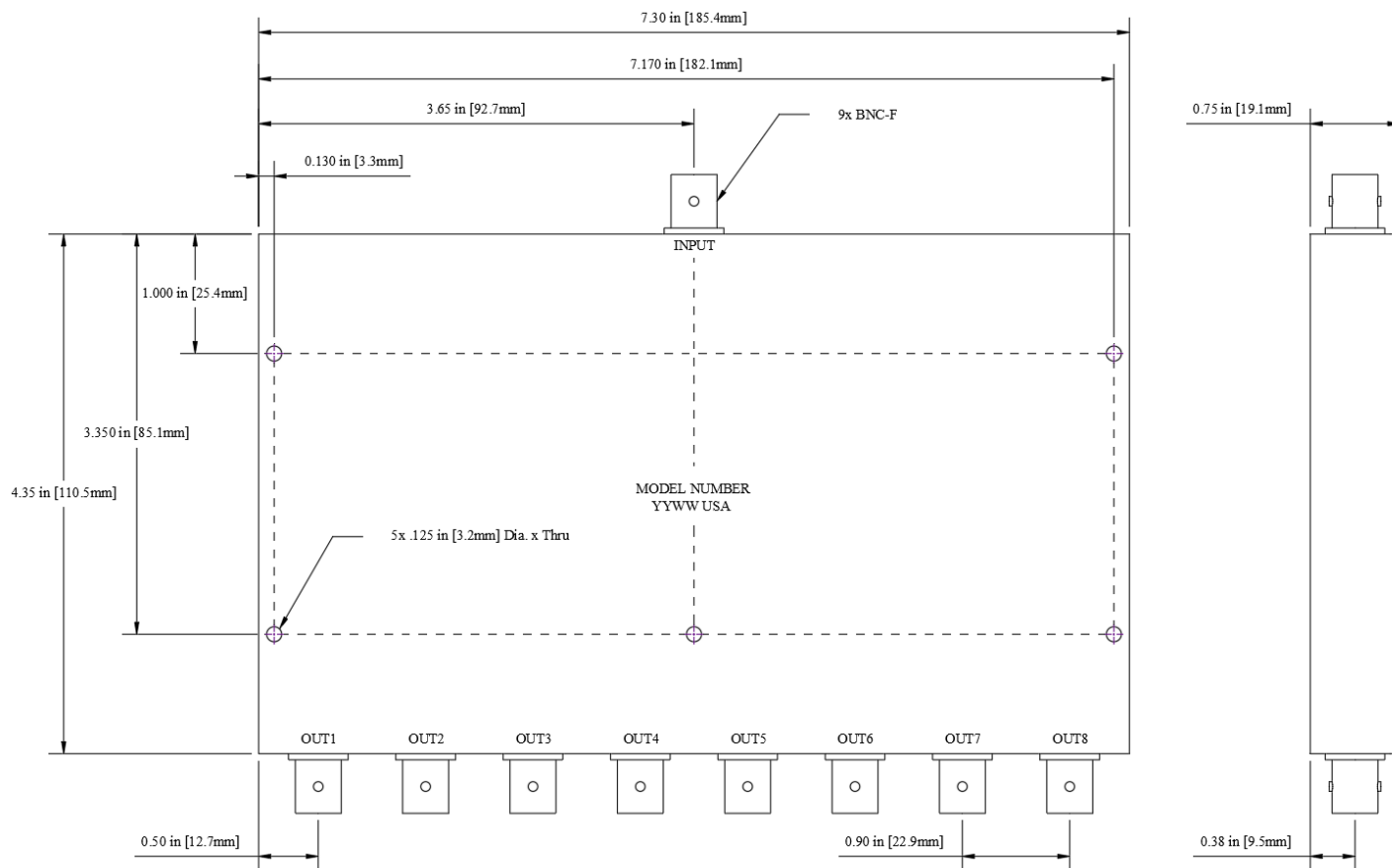
Typical Performance Data

Frequency (MHz)	Return Loss (dB)			Total Loss (dB)			Isolation (dB)		
	Port S	Port 1	Port 8	S-1	S-4	S-8	1-2	1-4	1-8
400	17.66	27.64	27.42	9.54	9.55	9.55	24.66	26.47	31.72
500	11.33	21.35	21.34	9.70	9.72	9.70	26.22	28.86	38.51
600	17.80	22.67	22.31	9.53	9.55	9.53	30.89	34.94	47.88
700	33.86	27.76	27.04	9.50	9.49	9.47	30.76	31.99	40.38
800	24.84	29.34	28.57	9.54	9.55	9.54	27.08	29.39	38.75
900	21.01	31.42	30.47	9.59	9.61	9.59	27.01	29.97	38.00
1000	21.87	34.73	33.01	9.62	9.64	9.62	24.98	34.80	41.43
1250	28.71	24.43	23.26	9.68	9.71	9.68	33.24	35.27	42.14
1500	22.03	37.79	35.78	9.77	9.79	9.77	23.06	31.72	36.62
1750	36.44	27.96	27.13	9.83	9.85	9.86	28.14	33.93	46.06
2000	22.05	32.46	34.21	9.92	9.96	9.93	27.56	34.86	41.38
2250	28.24	33.16	31.45	9.97	9.99	10.00	26.97	32.11	42.35
2500	21.16	24.17	24.60	10.09	10.12	10.10	32.32	42.08	49.71
2750	20.65	36.42	32.24	10.16	10.22	10.19	26.09	32.40	41.25
3000	16.25	20.19	19.29	10.35	10.37	10.37	25.88	40.29	41.80
3250	21.37	24.06	25.37	10.36	10.51	10.35	23.98	41.63	47.18
3500	19.65	26.57	25.60	10.55	10.61	10.54	22.17	28.14	36.10
3750	14.92	19.45	20.56	10.56	10.96	10.56	29.49	32.00	40.05
4000	25.88	26.33	30.30	10.50	10.96	10.57	25.75	31.13	37.13
4250	18.58	29.38	35.43	10.70	10.80	10.72	25.13	30.05	33.55
4500	21.72	29.00	38.58	10.82	10.89	10.84	37.13	40.49	46.94

Simplified Electrical Schematic



Outline Dimensions



Outline drawing: OL-8047

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

Tolerances on 2-pl decimals: $\pm .03$. 3-pl decimals: $\pm .015$.

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.