

Power Divider, 2-way, 18-26.5GHz, SMA Female

WM2PD-18-26.5-S



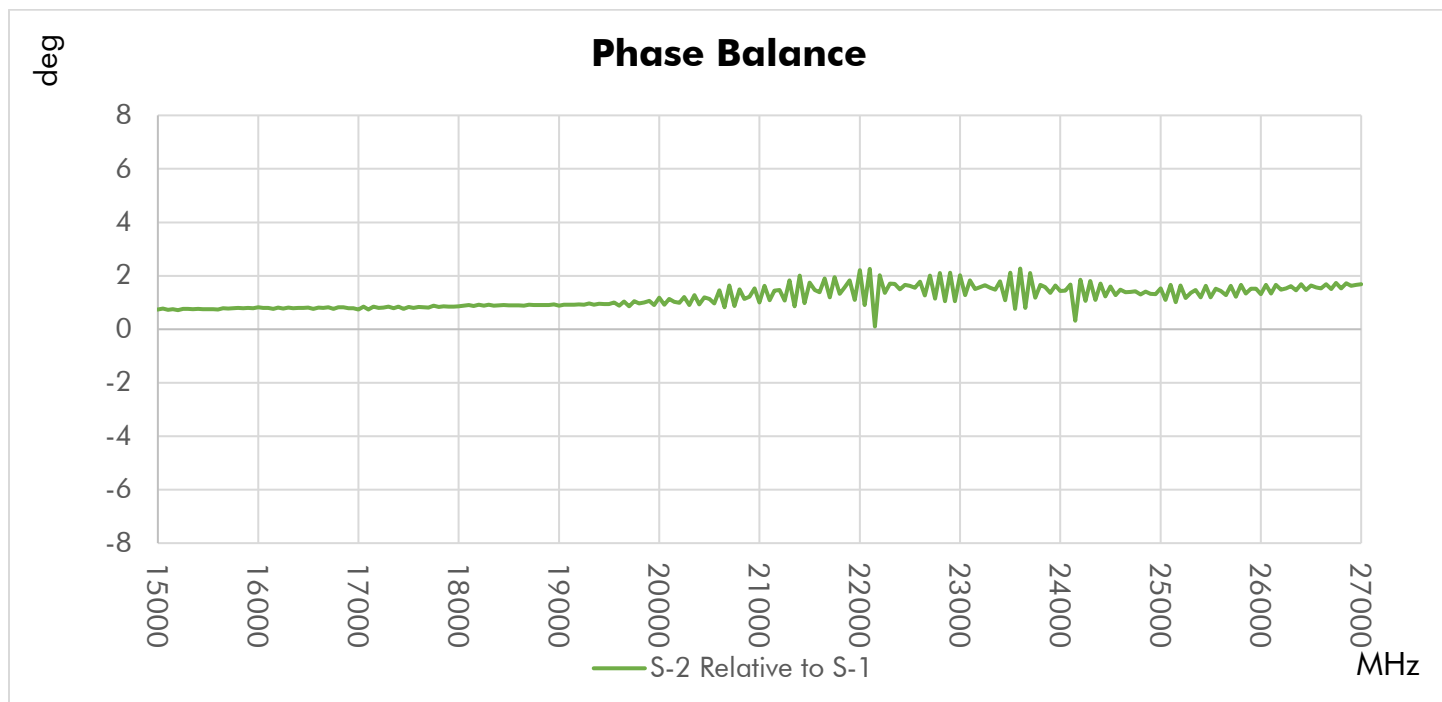
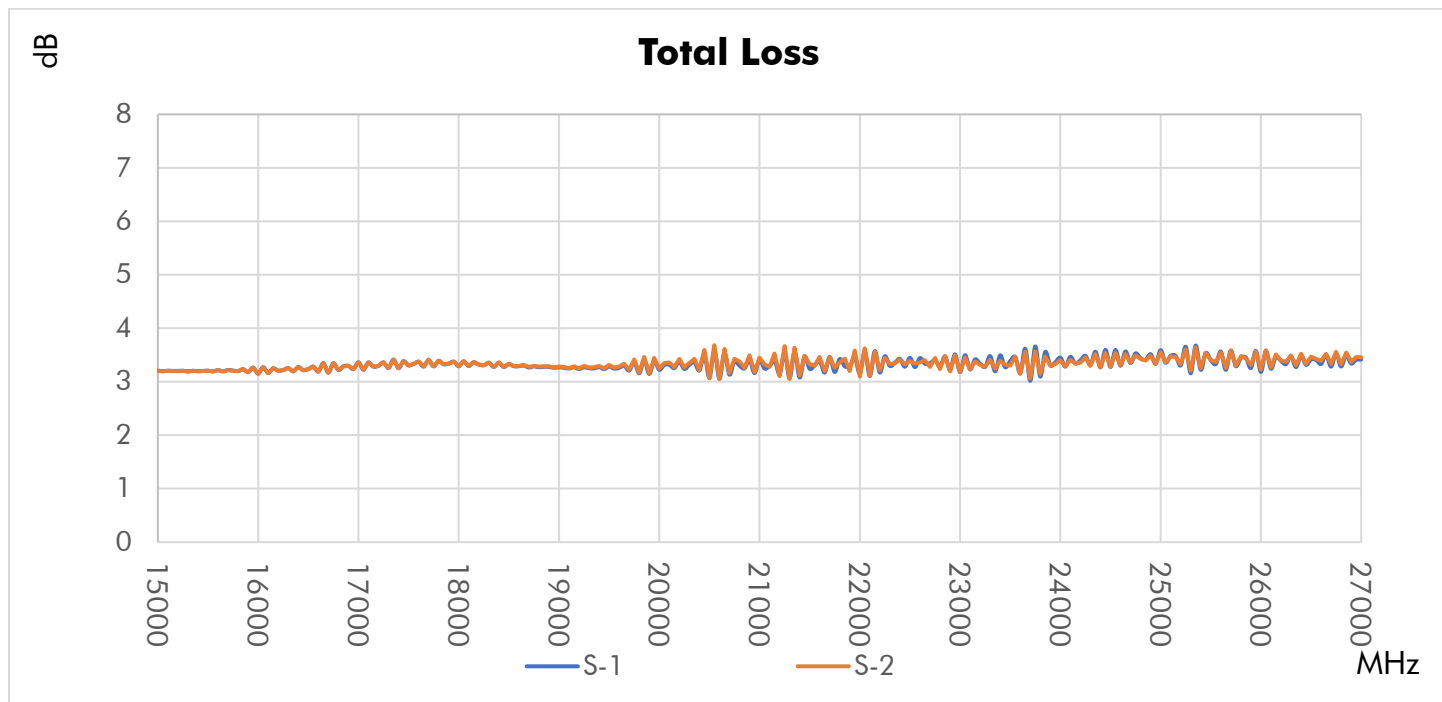
Parameter	Min.	Typ.	Max.	Unit
Frequency Range	18000		26500	MHz
Impedance		50		Ω
Return Loss (Port S)	13	17.3		dB, min.
Return Loss (Port 1-2)	13	17.1		dB, min.
Insertion Loss above 3.01dB		0.75	1.4	dB, max.
Isolation	16	21.5		dB, min.
Amplitude Unbalance ($\pm$) ¹		0.17	0.6	dB, max.
Phase Unbalance ($\pm$) ¹		2.4	6	Degree, max.
Input Power (CW) ²		10		W, max.
Combining Power (CW) ²		0.02		W/port, max.
DC Current		0.235		A/port, max.

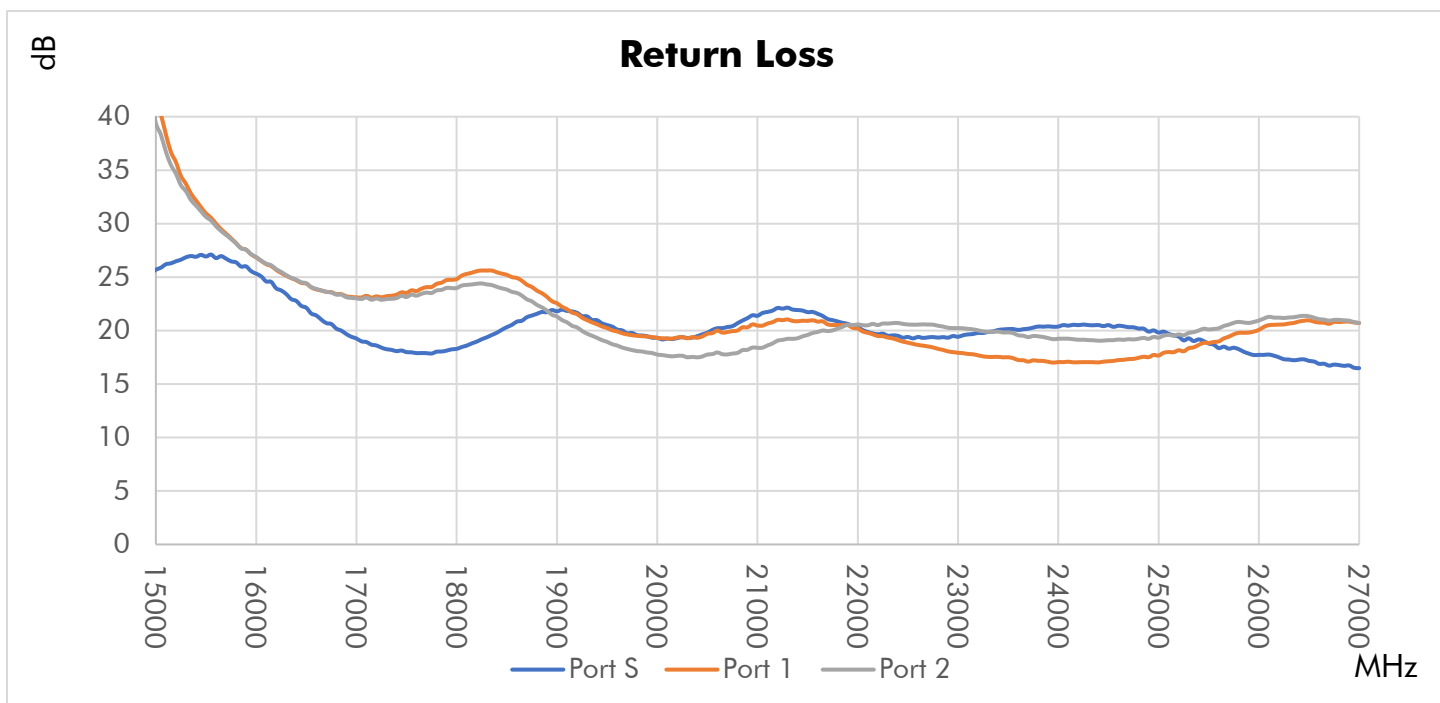
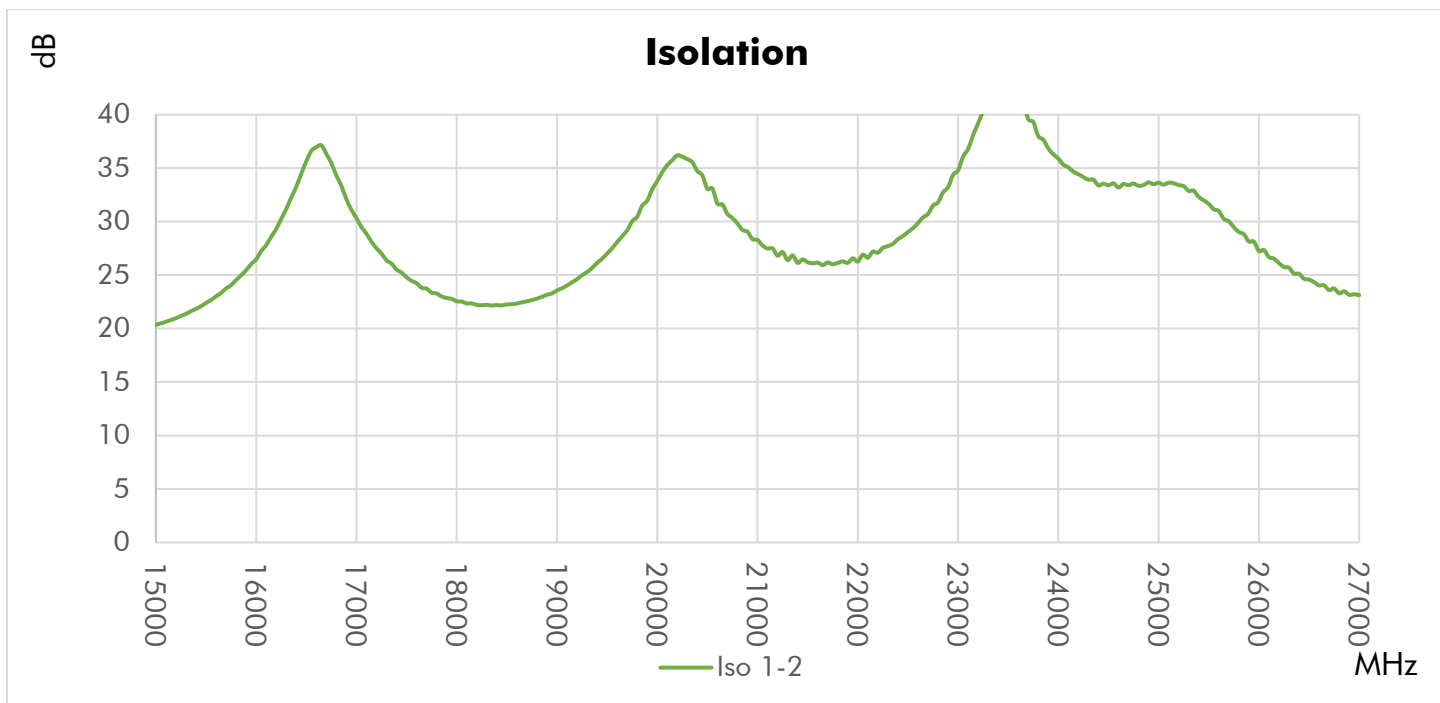
Connector Interface	SMA Female
Operating Temperature ³	-55 to +85 °C
Storage Temperature	-55 to +100 °C
Nominal Weight	27.5 g (0.97 oz)
Operating Humidity	10-90% (non-condensing)
Operating Environment	Indoor Use Only
HTSUS Code	8548.00.0000
ECCN	EAR99

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
Country of Origin	United States of America

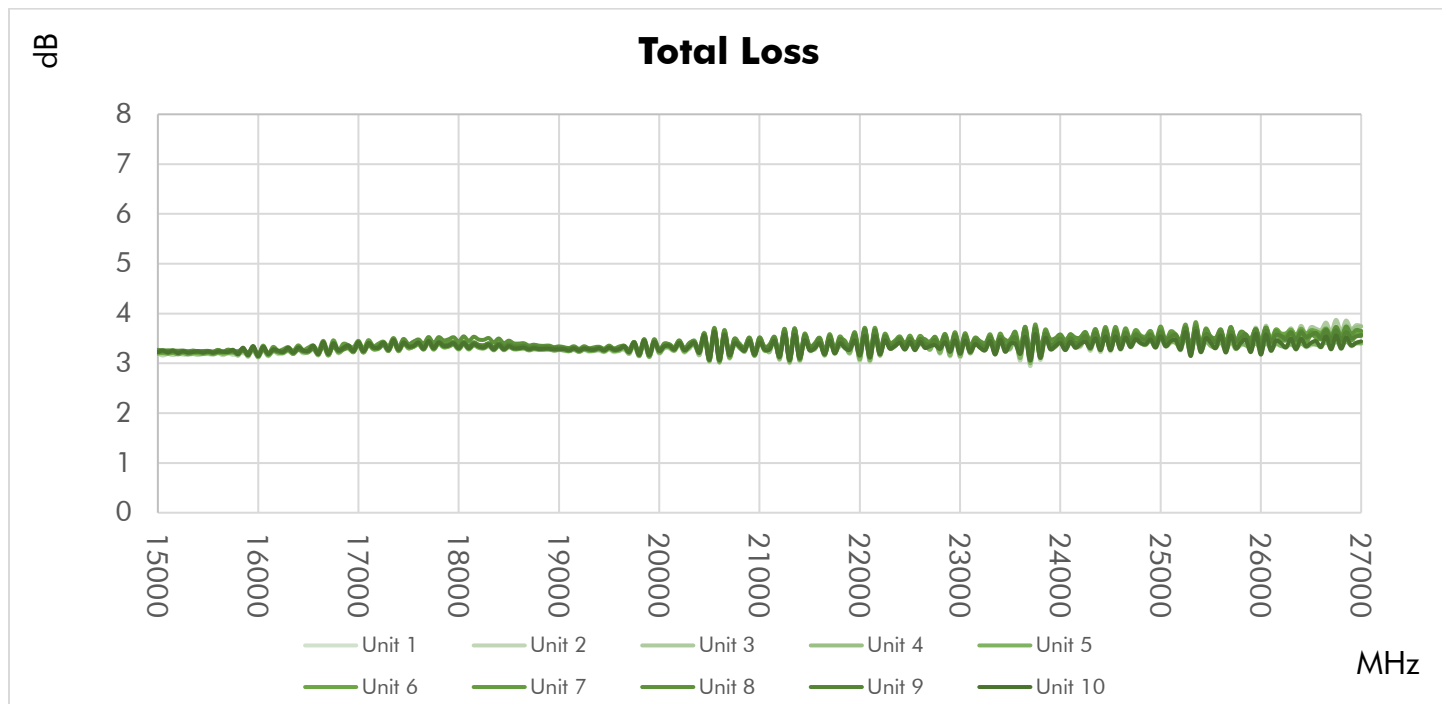
1. With reference to average.
2. All output ports should be terminated in a 50-ohm load with 1.2:1 max VSWR.
3. Electrical specifications are tested at +25 °C.
4. To the best of our knowledge at the time of publication.

Typical Performance at +25 °C

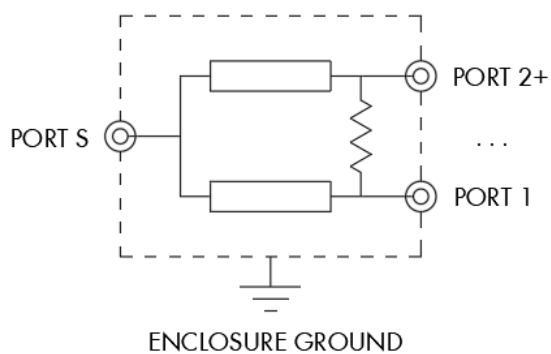




Repeatability in Production



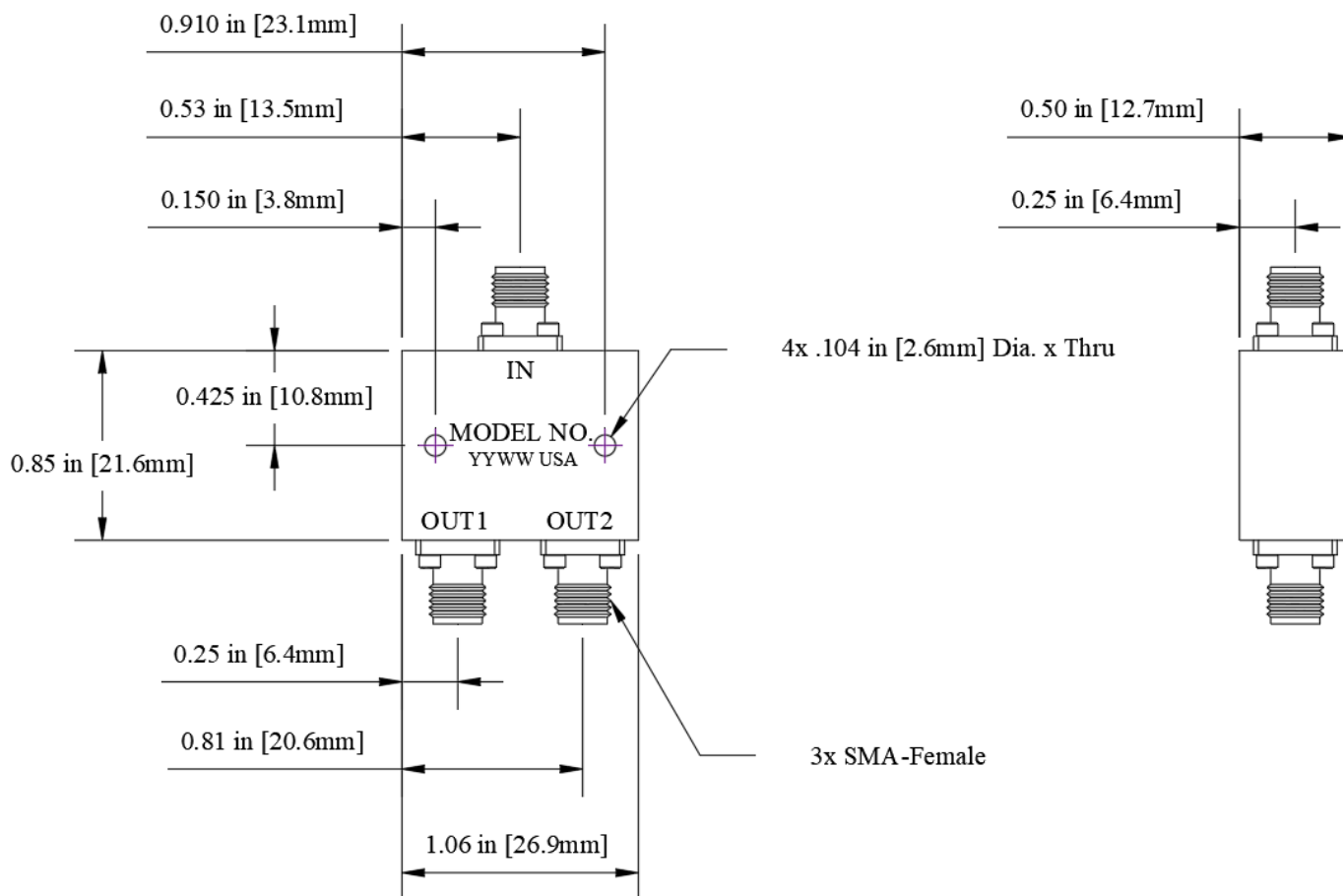
Simplified Electrical Schematic



Typical Performance Data

Frequency (MHz)	Return Loss (dB)			Total Loss (dB)		Isolation (dB)
	Port S	Port 1	Port 2	S-1	S-2	
1000	9.93	10.60	10.66	3.57	3.56	4.64
2000	10.11	11.47	11.47	3.44	3.44	7.29
3000	10.74	12.15	11.99	3.08	3.09	11.27
4000	11.70	12.72	12.72	3.24	3.25	17.35
5000	13.11	13.73	14.18	3.00	3.00	25.71
6000	15.26	15.98	16.57	3.41	3.41	30.61
7000	18.38	21.00	20.21	3.24	3.31	21.55
8000	24.38	25.29	23.14	3.21	3.22	18.02
9000	29.32	18.74	19.74	3.18	3.14	17.19
10000	24.11	17.01	17.82	3.16	3.12	16.65
11000	17.85	17.31	16.87	3.07	3.06	15.72
12000	15.89	16.88	16.30	3.44	3.49	16.52
13000	17.10	18.11	18.17	3.51	3.52	18.30
14000	20.08	24.58	25.47	3.24	3.25	19.11
15000	25.70	41.56	39.40	3.21	3.20	20.35
16000	25.32	26.84	26.88	3.15	3.15	26.47
17000	19.26	23.11	23.02	3.36	3.36	30.34
18000	18.29	24.82	23.98	3.29	3.29	22.55
19000	21.80	22.56	21.32	3.27	3.28	23.57
20000	19.33	19.30	17.76	3.22	3.25	33.78
21000	21.38	20.47	18.39	3.41	3.45	28.28
22000	20.30	20.18	20.57	3.15	3.10	26.27
23000	19.42	17.93	20.23	3.18	3.19	34.79
24000	20.38	17.05	19.24	3.45	3.41	35.90
25000	19.81	17.66	19.34	3.59	3.55	33.64
26000	17.73	20.06	20.94	3.18	3.23	27.25
27000	16.48	20.70	20.71	3.42	3.46	23.13

Outline Dimensions



Outline drawing: OL-02-1826

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.