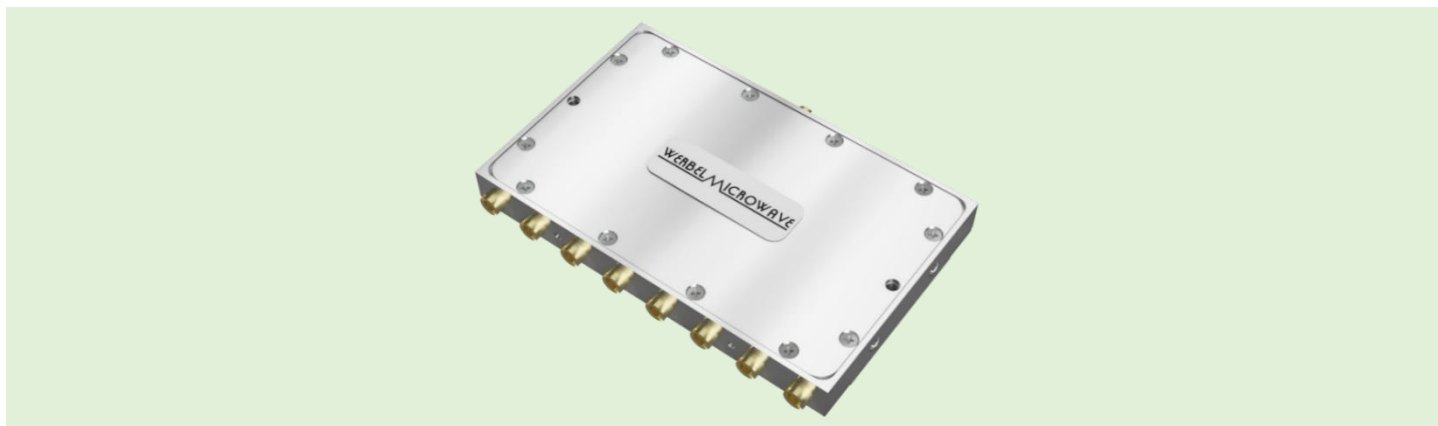


Power Divider, 8-way, 20-3000GHz, SMP Male

WM8PD-20-3000M-SMP



Parameter	Min.	Typ.	Max.	Unit
Frequency	20		3000	MHz
Impedance		50		Ohm
Return Loss (Port S)	9.5	13.4		dB
Return Loss (Port 1-8)	9.5	13.7		dB
Insertion Loss (above 9.03dB)	-	4.1	5.7	dB
Isolation	14.0	19.3		dB
Amplitude Balance ($\pm$)		0.45	0.80	dB
Input Power (CW) ¹		1		W, max

Connector Interface SMP-Male, Full Detent

Operating Temperature² -55 to +85 °C

Storage Temperature -55 to +100 °C

Nominal Weight 170 g (6 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

Stainless Steel

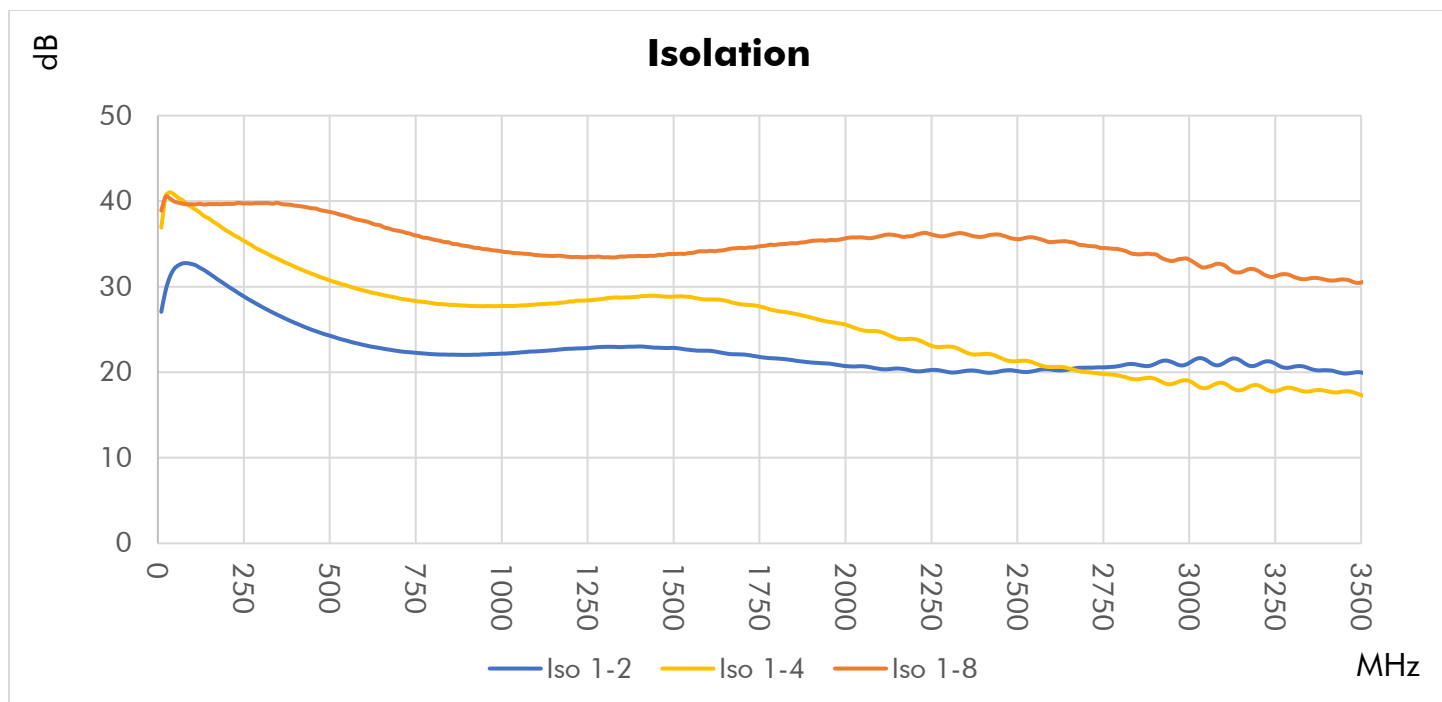
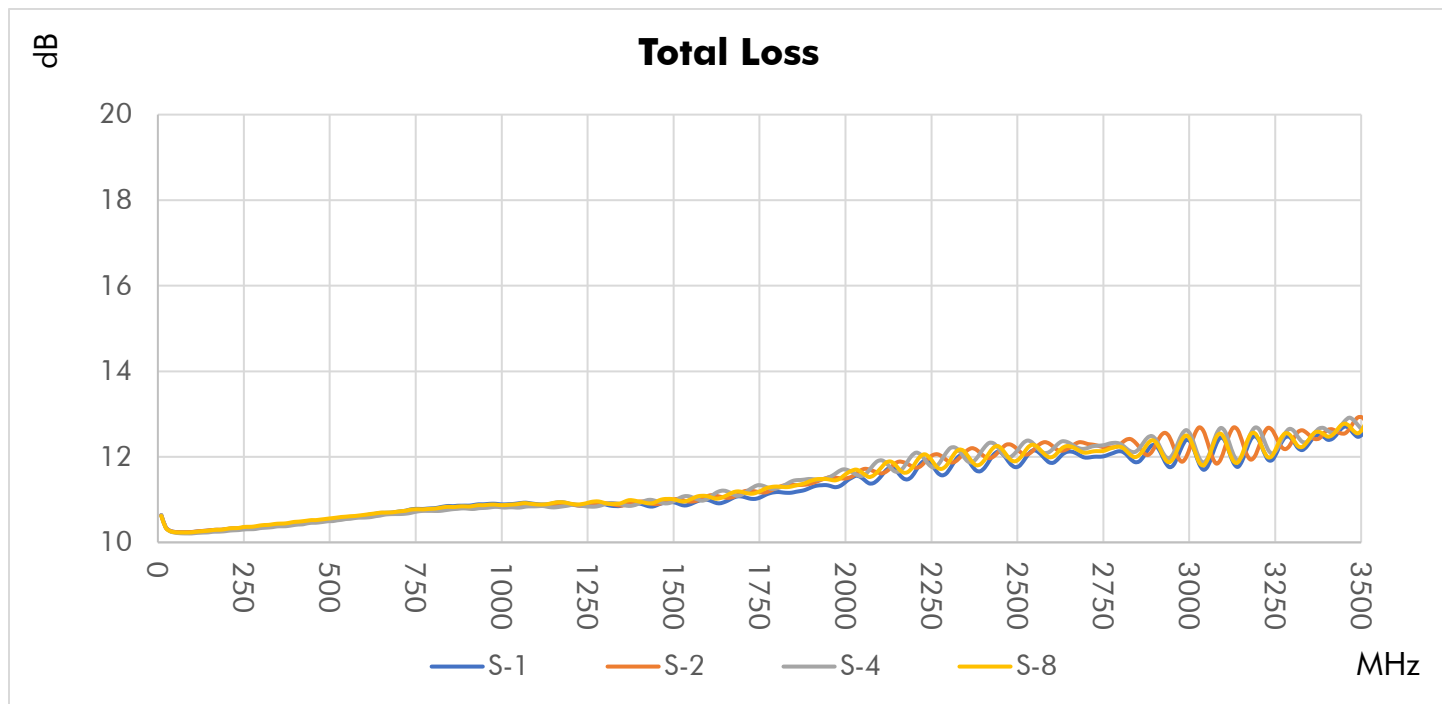
Beryllium Copper, Gold Plated

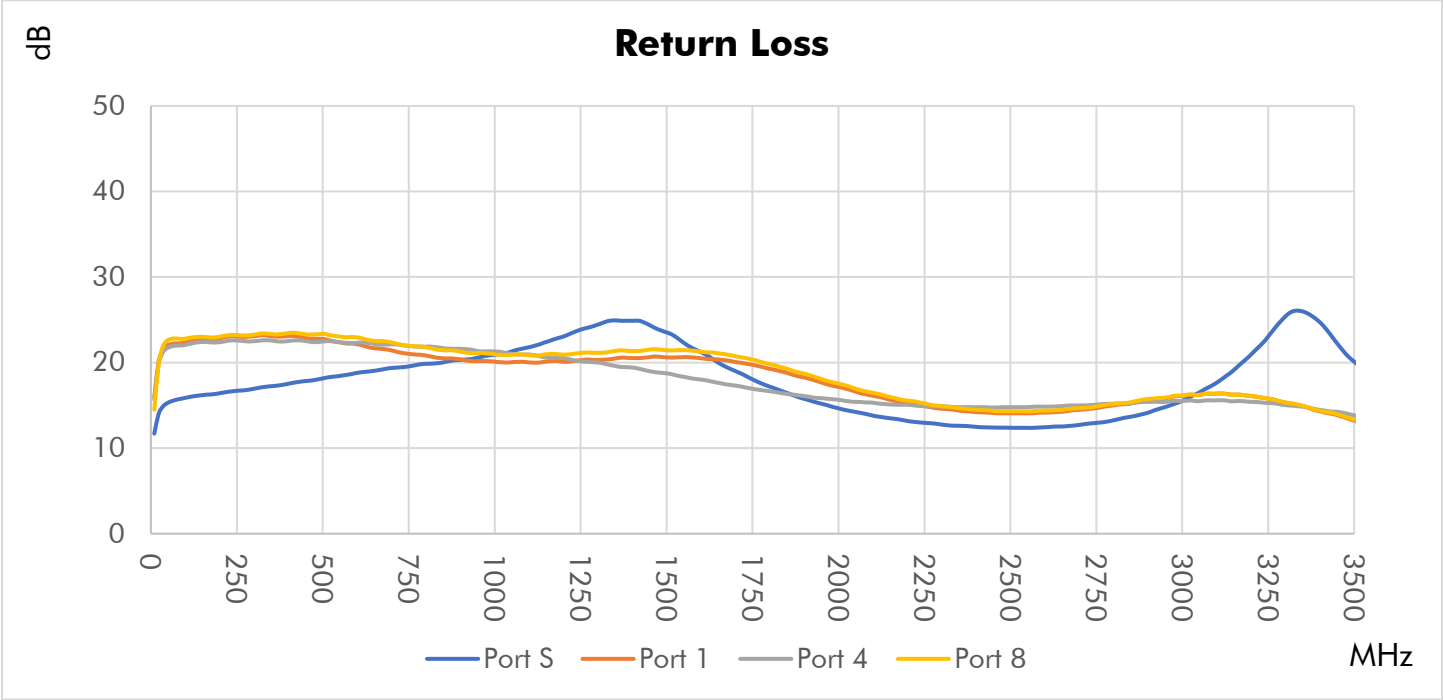
Virgin PTFE

Clean Chemical Film

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

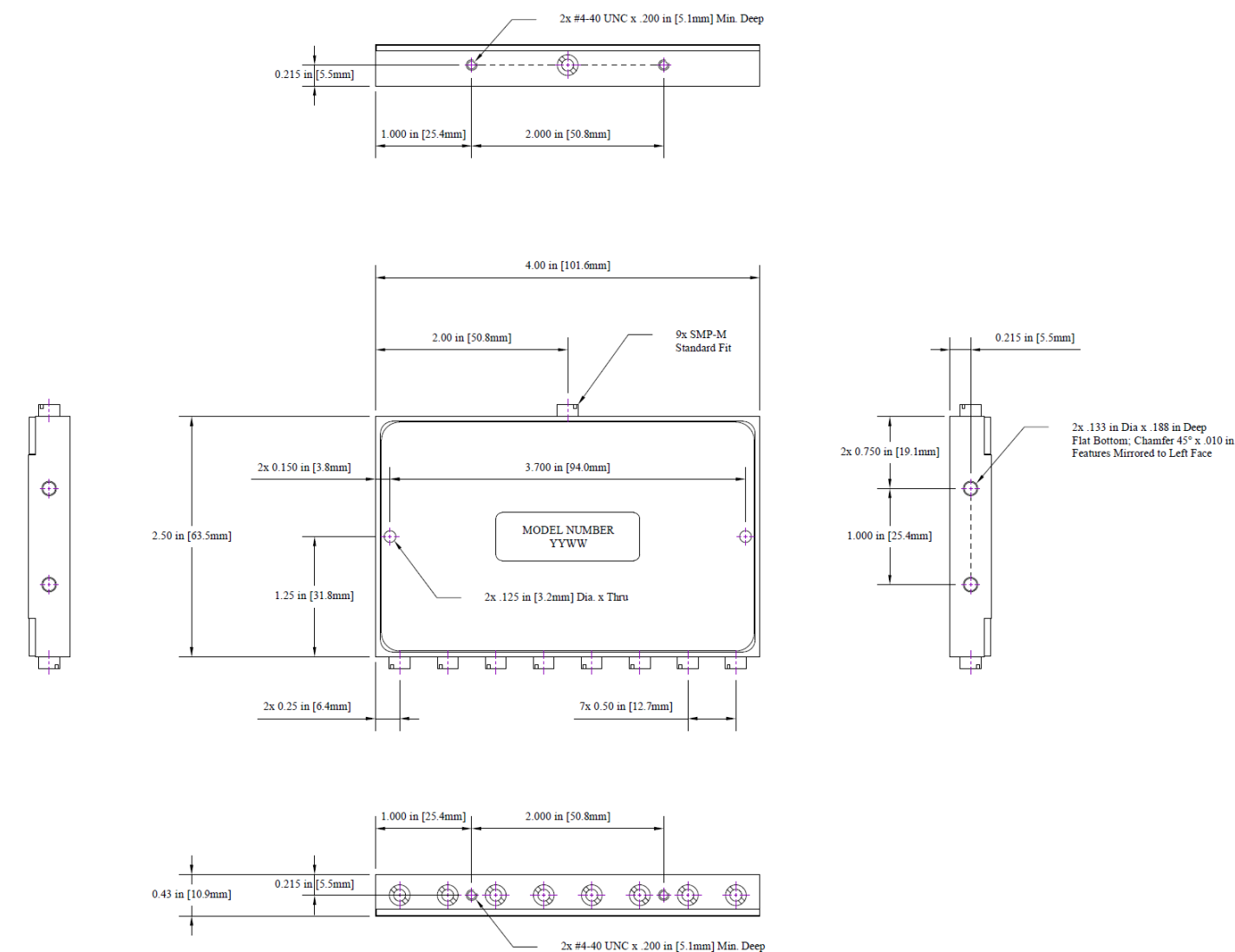




Typical Performance Data

Frequency (MHz)	Return Loss (dB)				Total Loss (dB)			Isolation (dB)		
	Port S	Port 1	Port 4	Port 8	S-1	S-4	S-8	1-2	1-4	1-8
10.0	11.69	15.94	15.66	14.49	10.64	10.64	10.62	27.07	36.91	38.90
22.5	13.99	20.14	19.81	19.76	10.36	10.35	10.35	29.54	40.60	40.51
35.0	14.86	21.55	21.21	21.88	10.27	10.26	10.27	31.16	41.03	40.32
47.4	15.26	22.01	21.68	22.57	10.25	10.23	10.24	32.09	40.78	39.97
59.9	15.48	22.18	21.89	22.79	10.24	10.22	10.23	32.51	40.38	39.83
72.4	15.64	22.24	21.98	22.82	10.24	10.21	10.23	32.73	40.09	39.70
84.9	15.75	22.25	22.00	22.77	10.23	10.21	10.23	32.75	39.66	39.64
97.3	15.85	22.31	22.04	22.79	10.24	10.21	10.23	32.66	39.32	39.64
110	15.96	22.43	22.16	22.87	10.25	10.22	10.25	32.51	39.01	39.62
210	16.48	22.93	22.44	23.11	10.32	10.28	10.33	29.89	36.34	39.68
309	17.01	23.12	22.53	23.32	10.38	10.34	10.41	27.51	34.03	39.78
409	17.60	23.12	22.57	23.49	10.46	10.42	10.48	25.60	32.15	39.44
509	18.23	22.72	22.50	23.33	10.55	10.50	10.57	24.17	30.61	38.67
609	18.85	22.08	22.35	22.89	10.64	10.58	10.65	23.10	29.47	37.61
709	19.39	21.34	22.13	22.27	10.73	10.66	10.73	22.42	28.57	36.45
808	19.86	20.76	21.88	21.73	10.80	10.73	10.79	22.10	28.01	35.45
908	20.34	20.32	21.60	21.22	10.86	10.78	10.84	22.04	27.76	34.69
1008	20.95	20.07	21.28	20.93	10.89	10.81	10.87	22.18	27.75	34.06
1507	23.44	20.59	18.70	21.42	10.92	10.99	10.99	22.83	28.86	33.83
2006	14.59	17.11	15.62	17.49	11.45	11.69	11.62	20.71	25.49	35.71
2505	12.38	14.07	14.79	14.32	11.78	12.20	11.95	20.10	21.33	35.55
3004	15.60	16.13	15.52	16.18	12.34	12.51	12.39	21.20	18.92	33.07
3503	20.01	13.21	13.80	13.33	12.53	12.64	12.64	19.96	17.30	30.53

Outline Dimensions



Outline drawing: OL-8033

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 part described herein. It may be necessary to make modifications to the part and/or documentation of the part, in order to implement improvements. 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 does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, 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.