WERBEL MICROWAVE LLC
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Power Divider, 8-way, 20-3000MHz, SMA Female

WM8PD-20-3000M-S

Description

The model is an 8-way splitter covering the band 20MHz to 3GHz in one unit. Enclosure is a rugged aluminum housing. The recessed cover design minimizes RF leakage. Designed, assembled and tested in the USA.

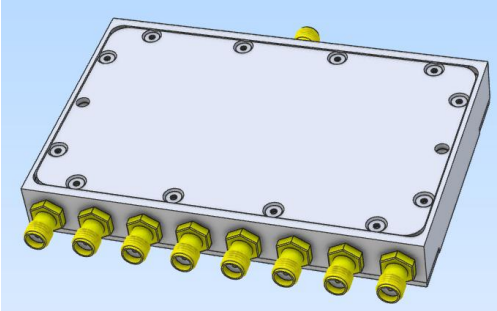

Photo is representative.

Specifications	Min.	Typ.	Max.	Units
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 (±)	–	0.45	0.80	dB
Input Power (CW)[1]	–	–	1	W

Mechanical

Connector Interface	SMA-Female
Operating Temperature[2]	-55 to +85 °C
Storage Temperature	-55 to +100 °C
Weight Estimate	6 oz (170 g)
Humidity	10-90% non-condensing
Environment	Indoors Use Only
CAGE Code	78YZ0

Materials

RoHS Compliant[3]	Yes
REACH Compliant[3]	Yes
Enclosure	Aluminum
Connectors	Brass, Gold Plated
Contacts	Be Cu, Gold Plated
Insulators	PTFE
Finish	Clear Chemical Film

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

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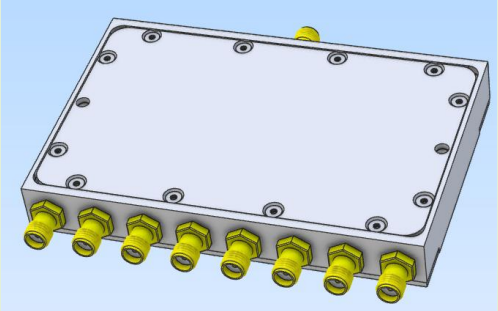

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Amplitude Balance (±)		0.45	0.80	dB
Input Power (CW)[1]		1		W, max

Connector Interface	SMA-Female	RoHS Status[3]	RoHS3 Compliant
Operating Temperature[2]	-55 to +85 °C	REACH Status[3]	REACH Unaffected
Storage Temperature	-55 to +100 °C	Enclosure Material	Aluminum
Nominal Weight	170 g (6 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
CAGE Code	78YZ0	Finish	Clean Chemical Film

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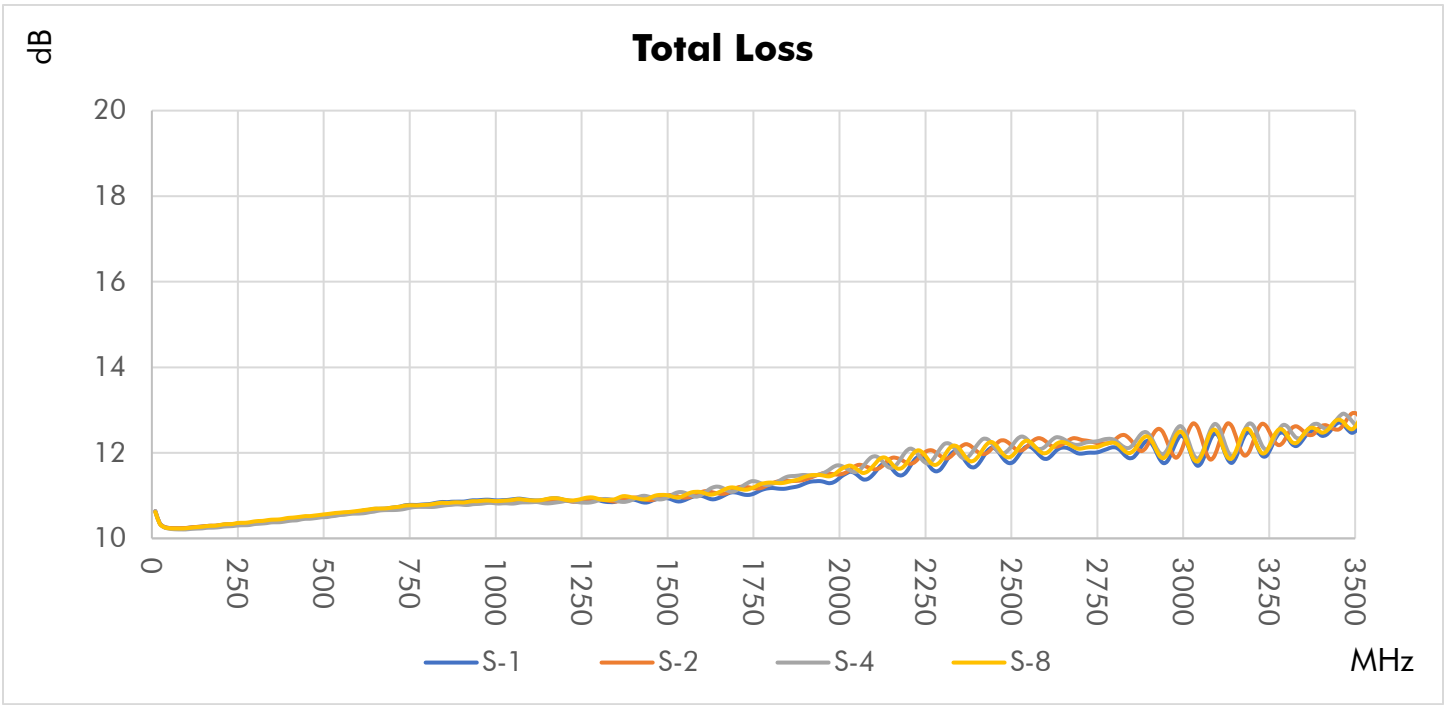
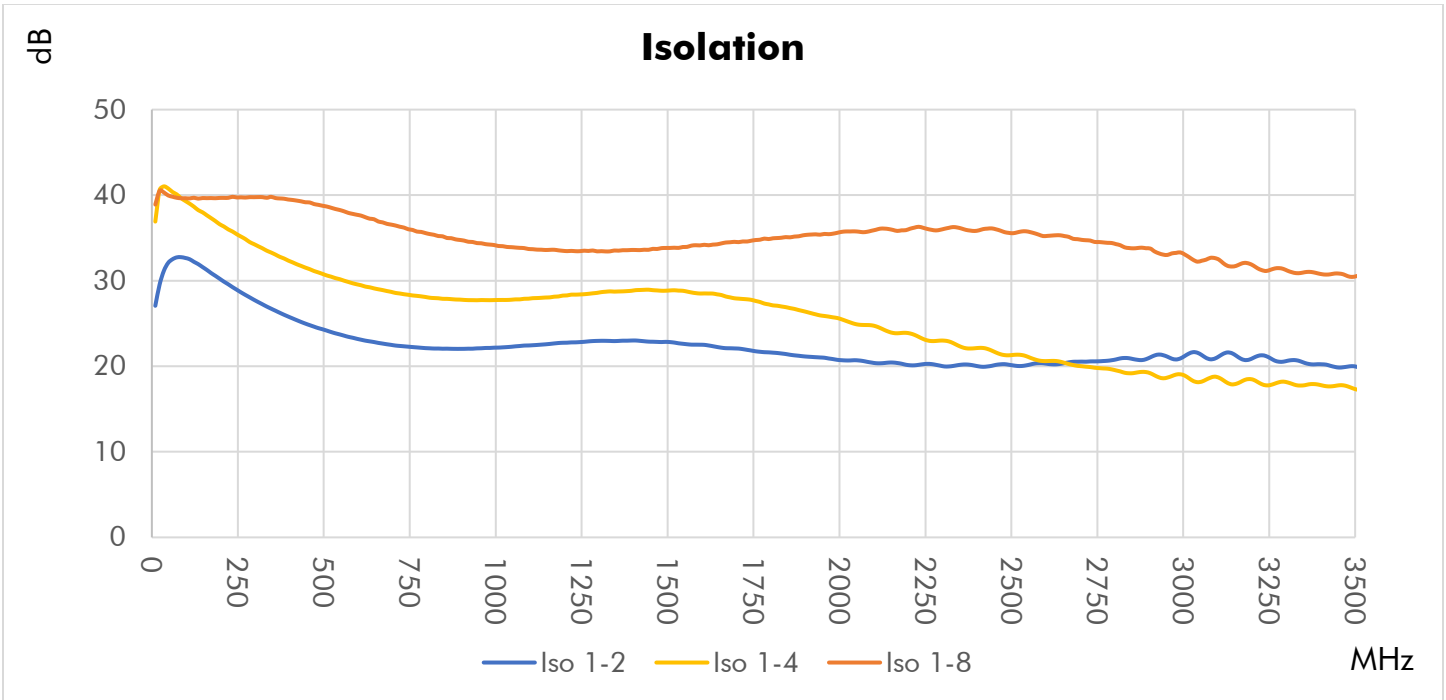
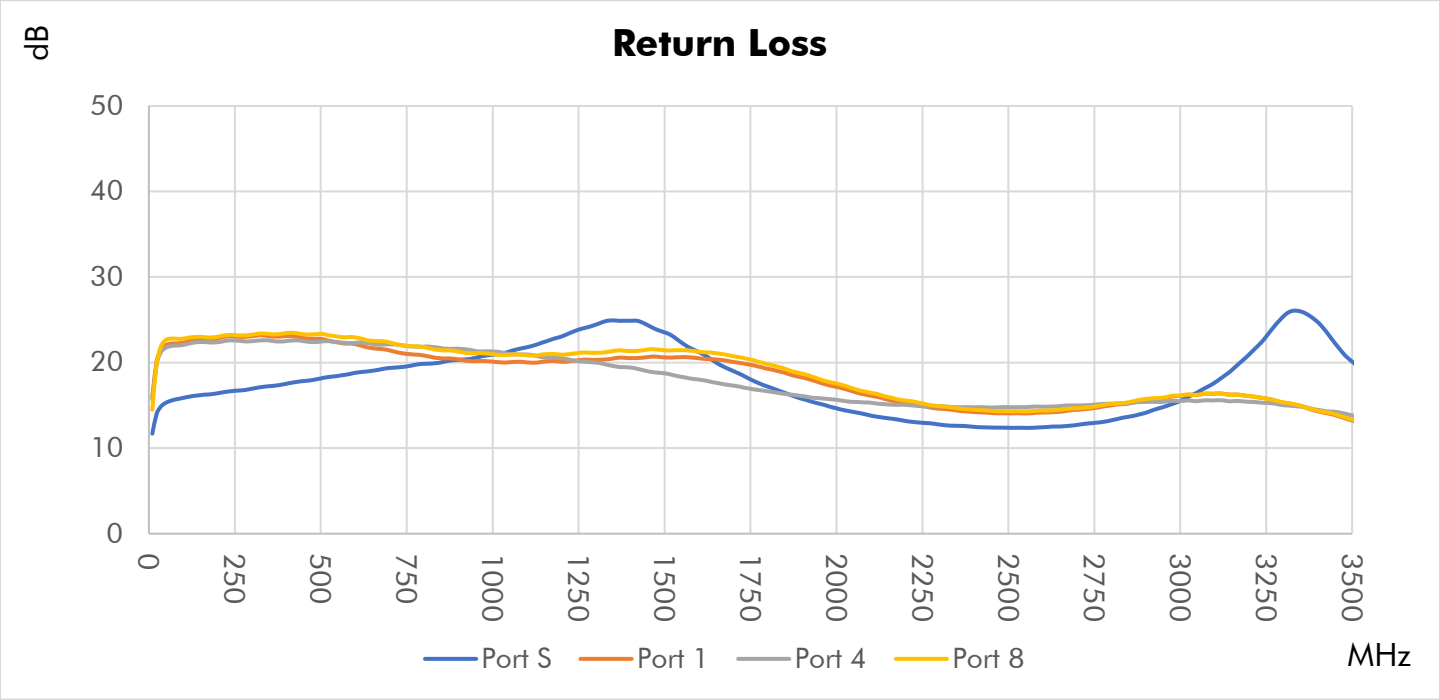
Typical Performance at +25 °C



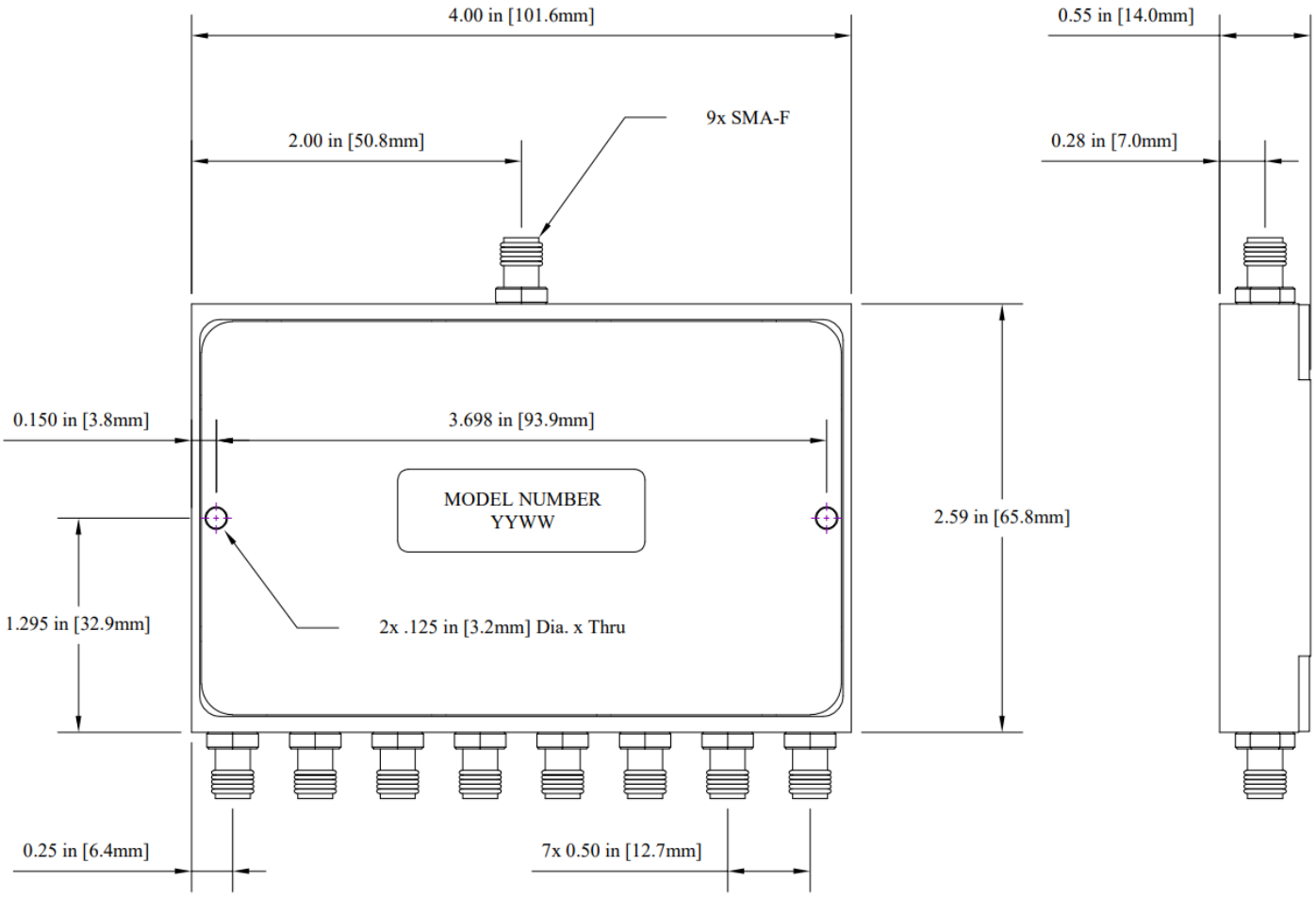



Return Loss
dB
50
40
30
20
10
0
0
250
500
750
1000
1250
1500
1750
2000
2250
2500
2750
3000
3250
3500
MHz
Port S
Port 1
Port 4
Port 8

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-8034
Dimensions are in inches, [mm] shown for convenience.
Tolerances on 2-pl decimals: ±.03. 3-pl decimals: ± .015.