

Power Divider, 4-way, 2-26.5GHz, SMA Female

WM4PD-2-26.5-S

Description

Model WM4PD-2-26.5-S from Werbel Microwave is a wideband 4-way in-line power splitter covering of 2 to 26.5 GHz with excellent return loss, low insertion loss, and high isolation performance. Our own design of the new 26.5GHz series, precision-assembled and tested in the USA. Isolation 19dB typical.



Image is representative.

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range	--	2000	--	26500	MHz
Impedance	--	--	50	--	Ω
Return Loss (Port S)	2000-8000	12	14	--	dB
	8000-18000	12	15		
	18000-26500	12	14		
Return Loss (Port 1-4)	2000-8000	14	18	--	dB
	8000-18000	14	19		
	18000-26500	14	20		
Insertion Loss Above 6.0dB	2000-8000	--	0.5	1.0	dB
	8000-18000		0.9	1.4	
	18000-26500		1.4	2.0	
Isolation	2000-8000	16	19	--	dB
	8000-18000	14	19		
	18000-26500	14	16		
Amplitude Unbalance ($\pm$) ¹	2000-8000	--	0.17	0.40	dB
	8000-18000		0.23	0.55	
	18000-26500		0.50	0.75	
Phase Unbalance ($\pm$) ¹	2000-8000	--	2	4	Degree
	8000-18000		5	8	
	18000-26500		7	10	
Input Power (CW) ²	--	--	--	10	W

Mechanical

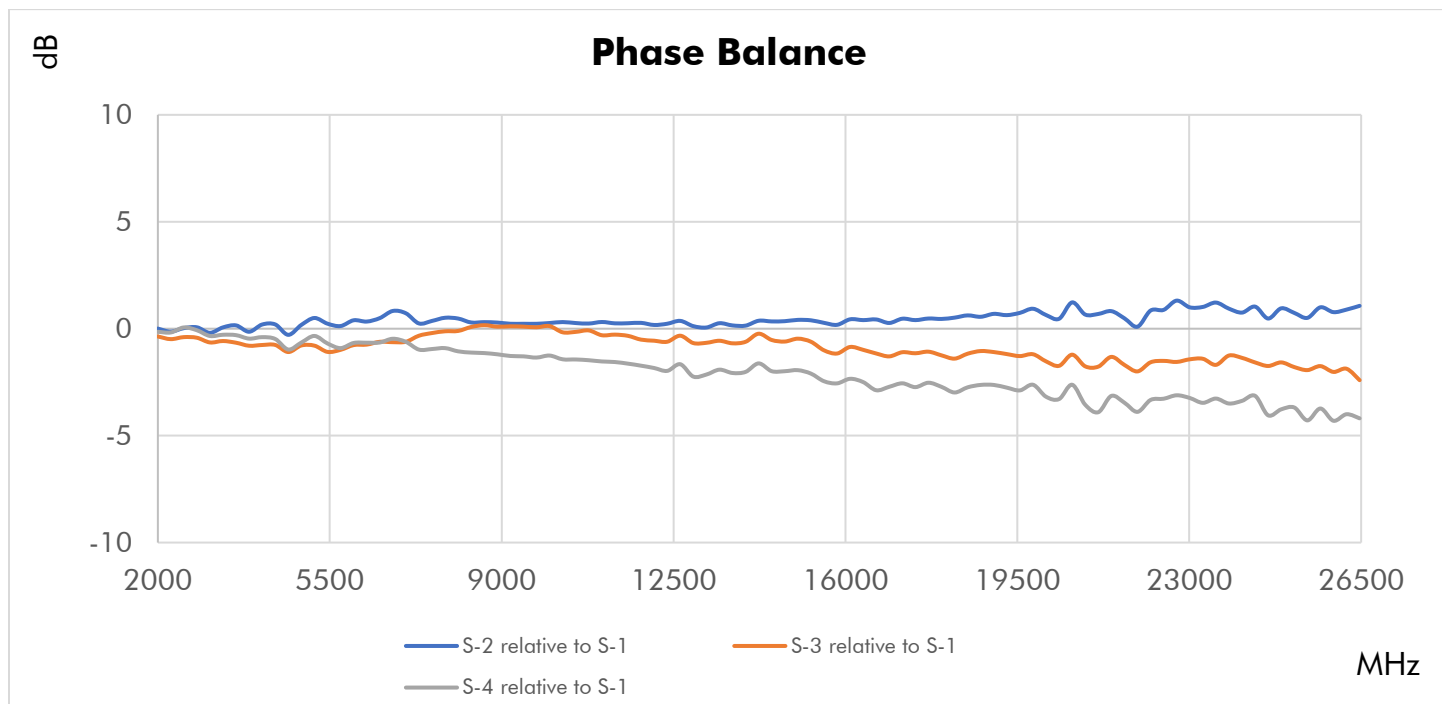
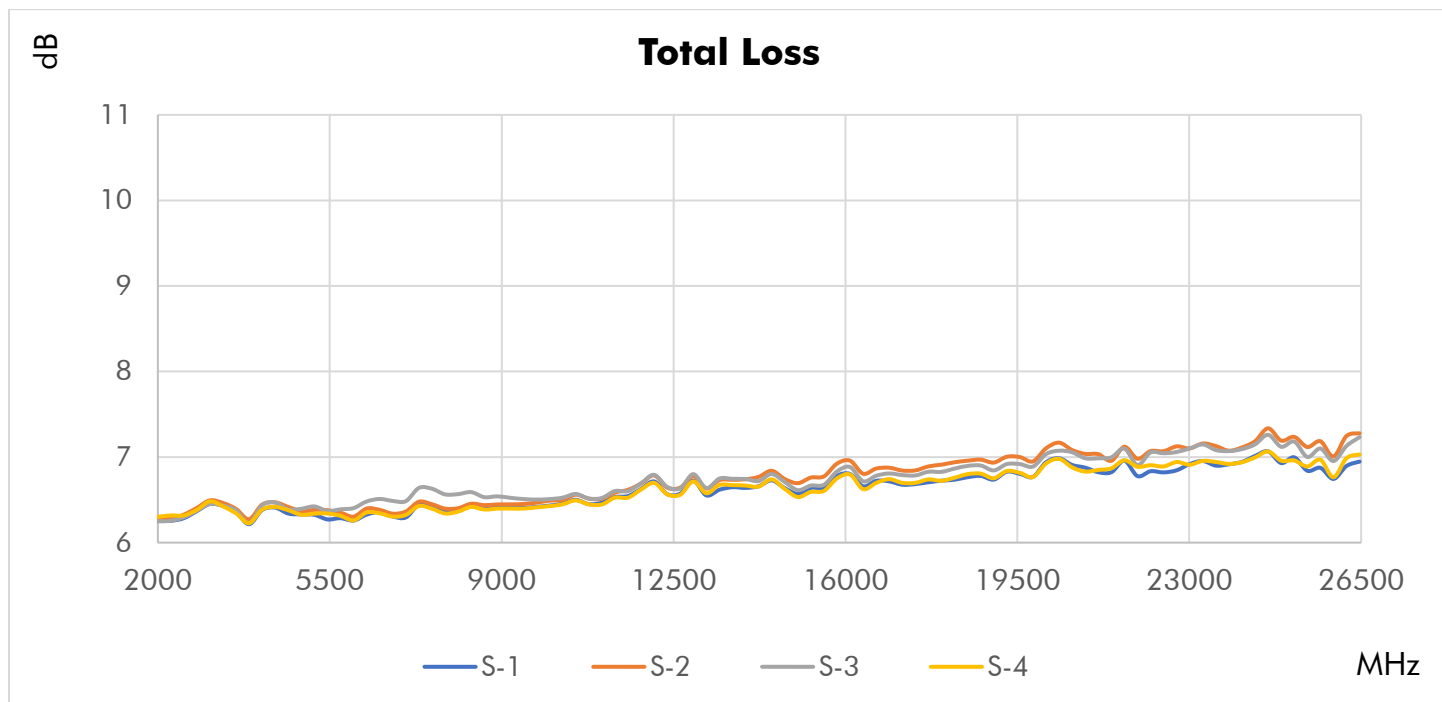
Connector Interface	SMA-Female
Operating Temperature ³	-55 to +85 °C
Storage Temperature	-55 to +100 °C
Nominal Weight	152 g (5.36 oz)
Humidity	10-90% non-condensing
Environment	Indoors Use Only
CAGE Code	78YZ0

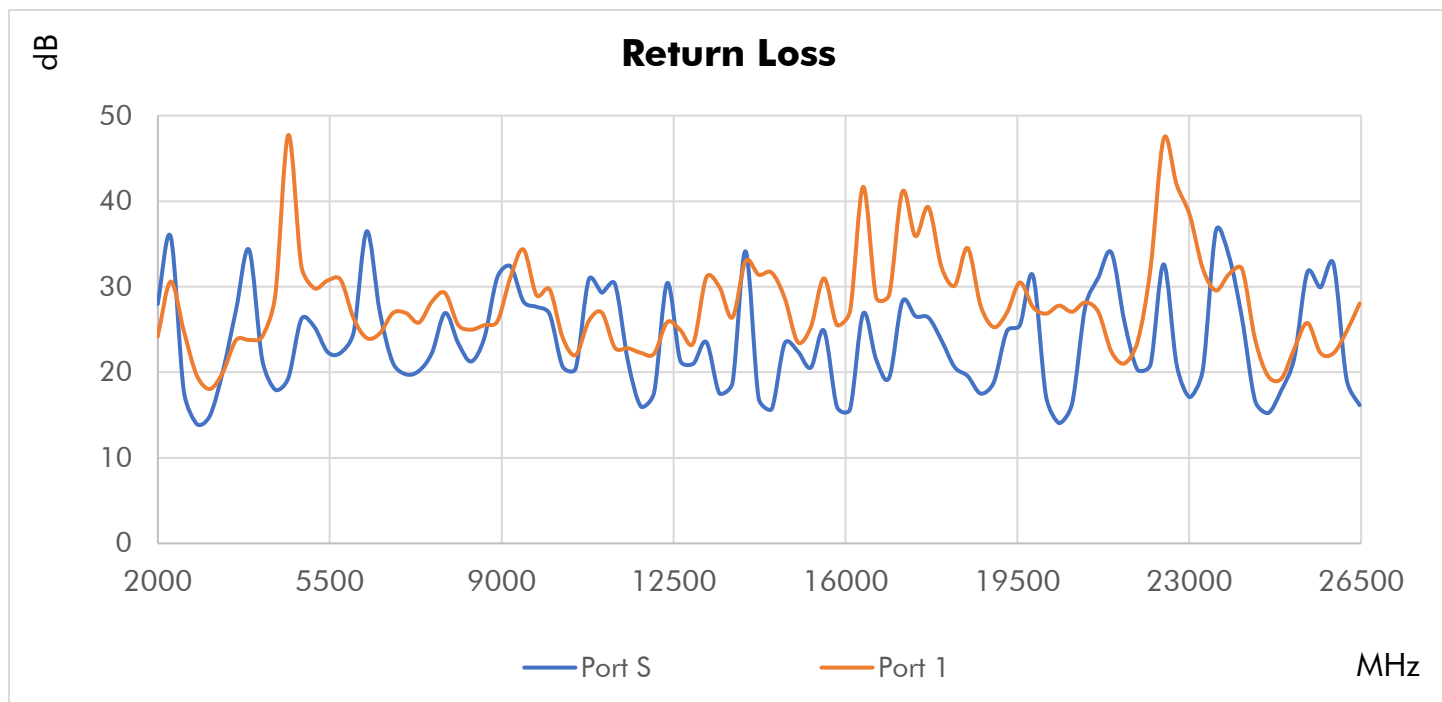
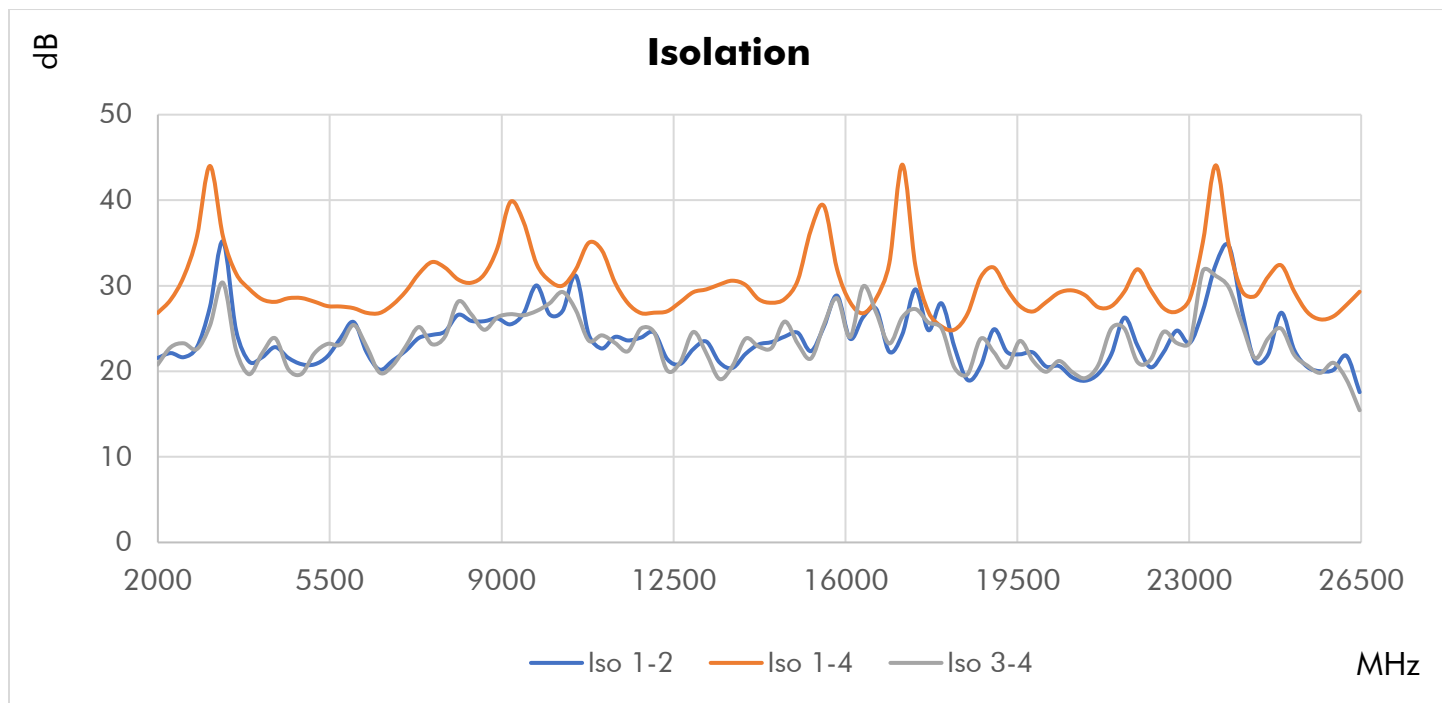
Materials

RoHS Compliant ⁴	Yes
REACH Compliant ⁴	Yes
Enclosure	Aluminum
Connectors	Stainless Steel
Contacts	Be Cu, Gold Plated
Insulators	PTFE
Finish	Green Paint

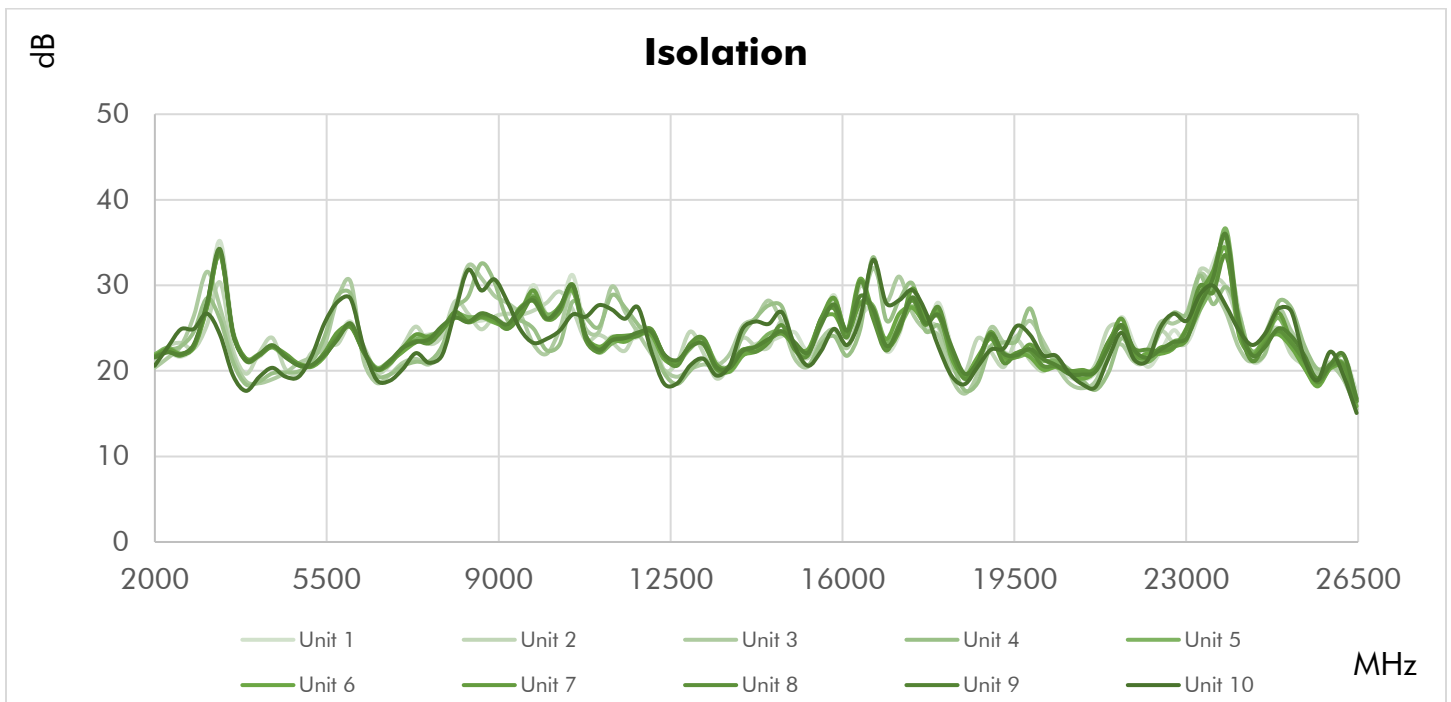
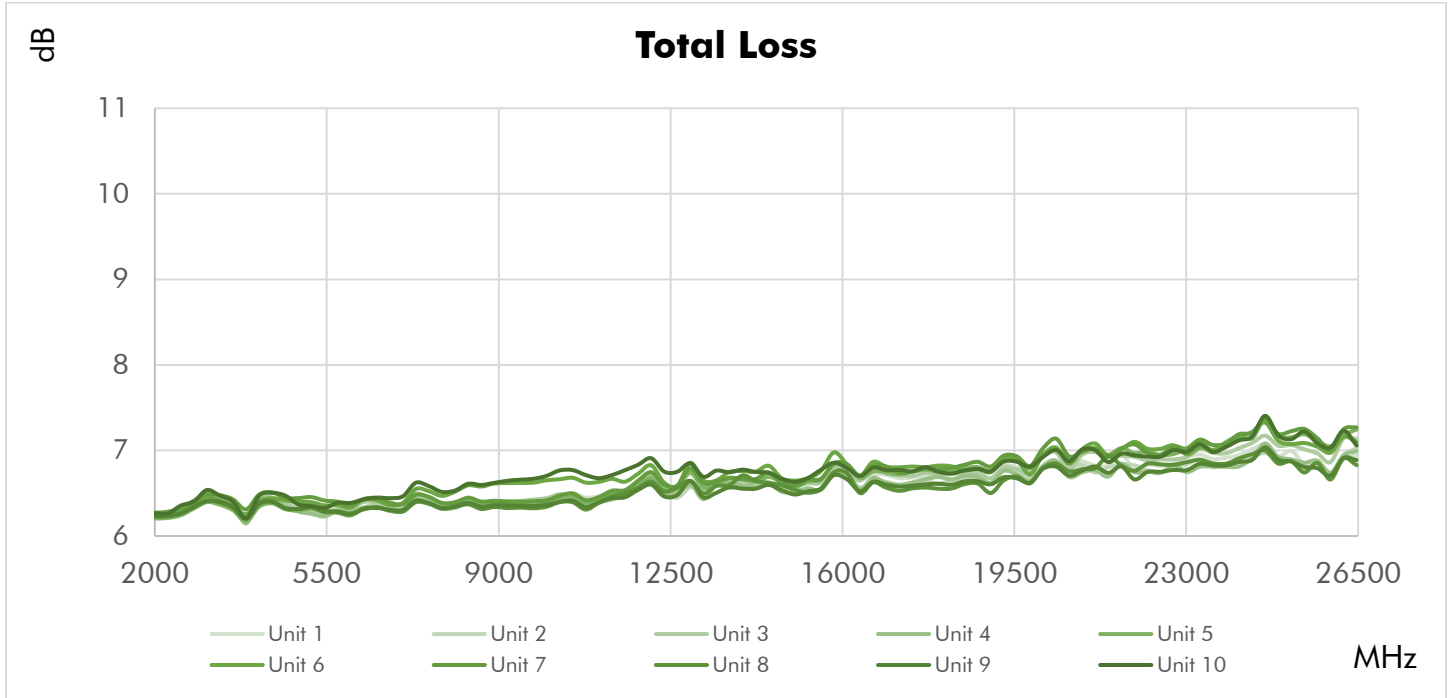
1. With reference to average.
2. All output ports should be terminated in a 50-ohm load with 1.2:1 max VSWR.
3. Electrical specifications at +25 °C.
4. To the best of our knowledge at the time of publication.

Typical Performance at +25 °C





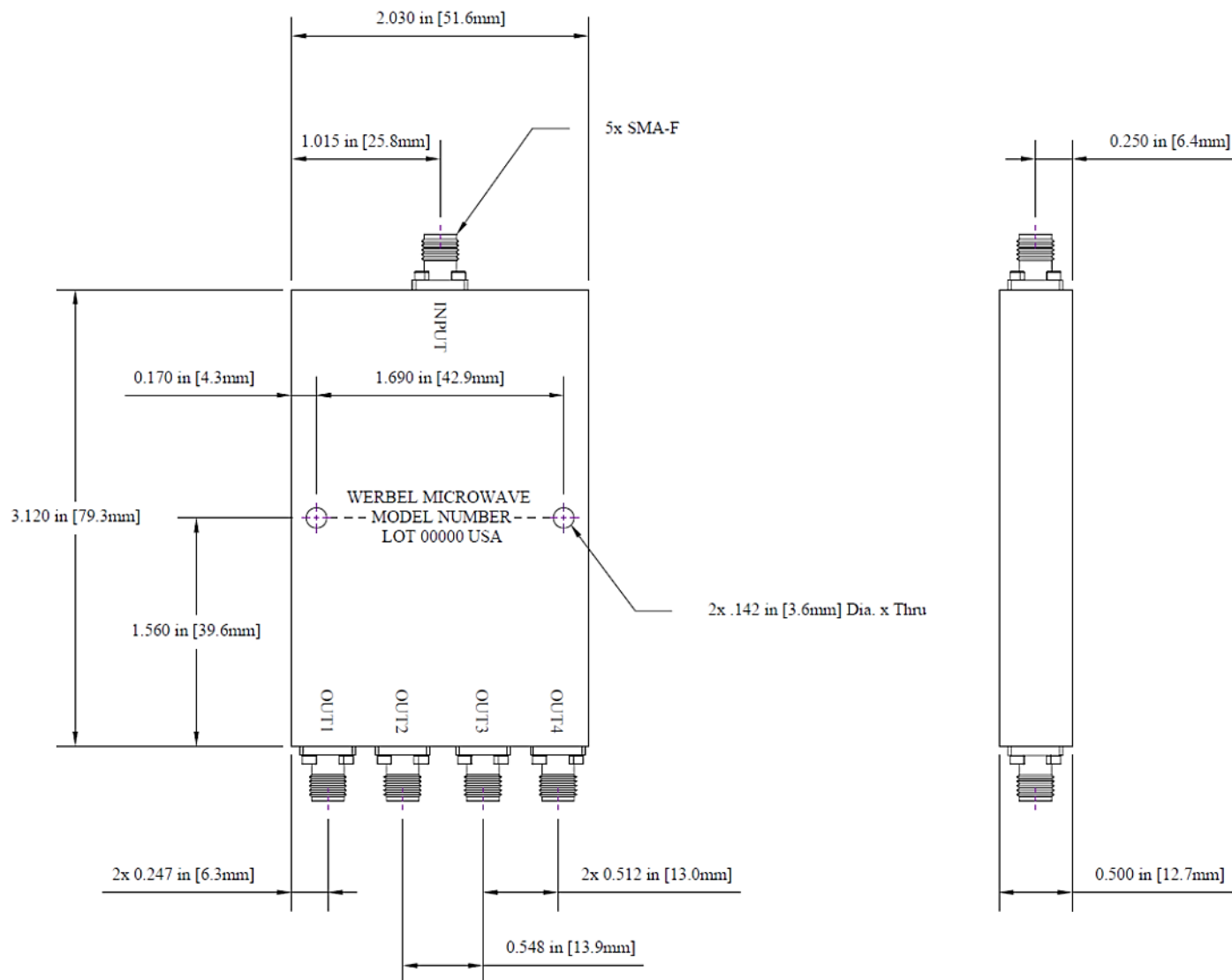
Repeatability in Production



Typical Performance Data

Frequency (MHz)	Return Loss (dB)			Total Loss (dB)		Isolation (dB)	
	Port S	Port 1	Port 4	S-1	S-4	1-2	1-4
2000	27.74	28.37	28.84	6.25	6.26	21.27	26.94
2500	18.08	28.29	30.60	6.38	6.36	23.79	28.97
3000	14.62	18.14	18.61	6.27	6.24	23.19	37.96
3500	26.34	27.21	25.81	6.30	6.30	25.10	27.96
4000	26.26	23.60	22.93	6.37	6.35	20.47	24.57
4500	18.84	27.77	27.46	6.32	6.30	23.14	25.02
5000	30.05	36.86	32.95	6.37	6.37	19.90	28.99
5500	22.00	32.45	31.82	6.33	6.32	22.32	33.25
6000	25.40	23.92	25.46	6.40	6.37	26.28	30.40
6500	30.43	25.18	25.41	6.35	6.33	20.05	27.60
7000	18.93	33.22	34.88	6.46	6.43	22.18	26.82
7500	21.39	31.11	28.85	6.48	6.46	23.68	28.15
8000	28.24	28.97	29.66	6.46	6.43	25.60	31.19
8500	21.99	26.87	25.38	6.47	6.44	25.00	35.79
9000	30.17	30.04	29.47	6.48	6.46	25.95	39.37
9500	29.21	40.43	36.02	6.51	6.48	26.38	30.78
10000	26.22	25.18	27.02	6.49	6.47	27.98	28.01
10500	20.57	23.38	24.54	6.58	6.54	27.95	30.17
11000	28.87	24.80	26.40	6.55	6.52	24.59	40.21
11500	22.04	22.14	23.22	6.56	6.51	21.55	31.55
12000	16.51	19.88	20.78	6.70	6.69	27.40	27.33
12500	26.90	23.87	24.97	6.69	6.66	19.60	26.49
13000	25.15	25.42	24.16	6.51	6.43	25.47	26.94
13500	16.07	22.00	24.35	6.82	6.76	19.40	29.35
14000	25.82	28.78	36.09	6.63	6.58	23.05	30.18
14500	16.45	26.50	32.50	6.75	6.70	22.15	29.71
15000	19.94	19.27	21.05	6.69	6.64	24.07	32.16
15500	27.05	24.45	27.28	6.67	6.59	22.64	32.00
16000	14.57	22.61	25.99	6.96	6.86	25.54	28.04
16500	24.03	26.73	28.51	6.78	6.68	31.37	29.11
17000	24.31	29.78	33.76	6.71	6.62	24.03	41.42
17500	22.61	29.37	33.87	6.73	6.65	26.14	28.50
18000	20.19	23.57	27.86	6.79	6.70	28.02	25.12
18500	23.14	24.02	26.45	6.76	6.65	19.47	26.90
19000	19.02	23.11	26.27	6.82	6.71	23.45	31.58
19500	23.02	24.08	27.49	6.80	6.70	22.73	29.99
20000	19.14	35.58	35.19	6.88	6.78	20.29	28.62
20500	16.84	30.81	29.18	6.97	6.88	21.41	27.33
21000	28.16	42.14	35.47	6.85	6.73	18.01	26.04
21500	27.56	24.35	23.57	6.81	6.78	24.23	27.07
22000	20.83	24.84	24.72	6.80	6.74	20.50	30.07
22500	44.02	35.67	32.95	6.87	6.76	23.55	32.12
23000	17.35	30.94	36.90	6.86	6.78	22.43	36.42
23500	26.36	43.64	32.94	6.93	6.84	32.41	33.74
24000	32.90	30.12	34.83	6.94	6.79	28.85	31.26
24500	13.74	21.96	22.03	7.16	7.01	22.20	35.24
25000	22.09	23.63	21.00	6.93	6.78	24.94	29.61
25500	26.71	35.94	28.99	6.92	6.71	19.61	25.72
26000	29.48	25.54	22.64	6.80	6.68	21.54	26.80
26500	15.77	22.78	24.88	6.88	6.67	16.20	24.24

Outline Dimensions



Outline drawing: OL-4200

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

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

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