

## Power Divider, 8-way, 0.6-7.4 GHz, SMA Female

## WM8PD-0.6-7.4-S1

### Description

WM8PD-0.6-7.4-S1 is an 8-way single-sided connector configuration power splitter covering the continuous bandwidth of 600 MHz to 7.4 GHz in an enclosure measuring 6.50 x 5.60 x 0.55 inches with versatile mounting options. The device is RoHS compliant. This part has versatile mounting options. Thru holes allow for mounting to chassis on the broad side. Threaded holes on the connector edges allow for through panel mounting. The product is suited for Wi-Fi 6E extended band test and measurement systems but also extends down to upper UHF.



Photo is representative.



Specification	Min.	Typ.	Max.	Units
Frequency	600	--	7400	MHz
Impedance	--	50	--	Ohm
Return Loss (Port S)	11	16	--	dB
Return Loss (Port 1-8)	13	17	--	dB
Insertion Loss (above theoretical 9dB)	--	2.4	3.6	dB
Isolation	18	20	--	dB
Amplitude Balance	--	0.3	0.8	dB
Phase Balance	--	4	12	Degrees
Input Power (CW) <sup>1</sup>	--	--	30	Watts

### Mechanical

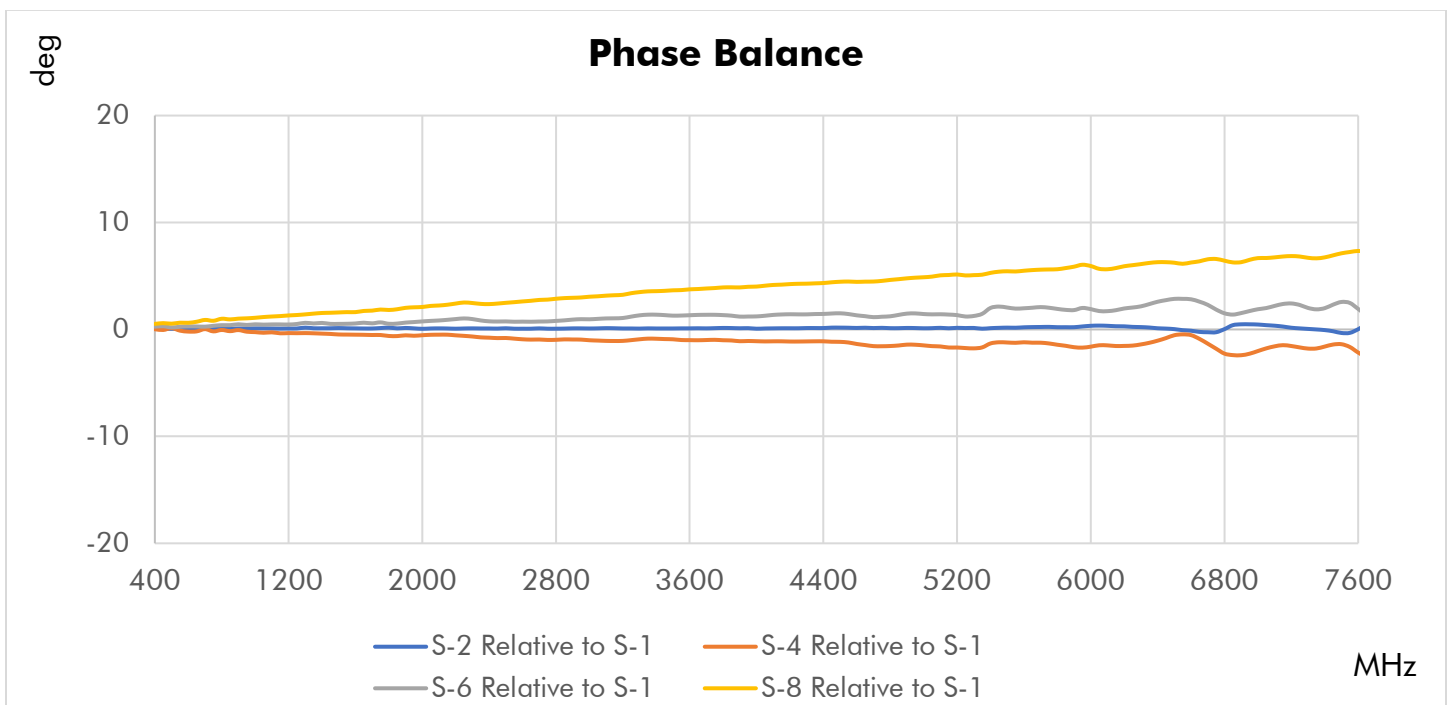
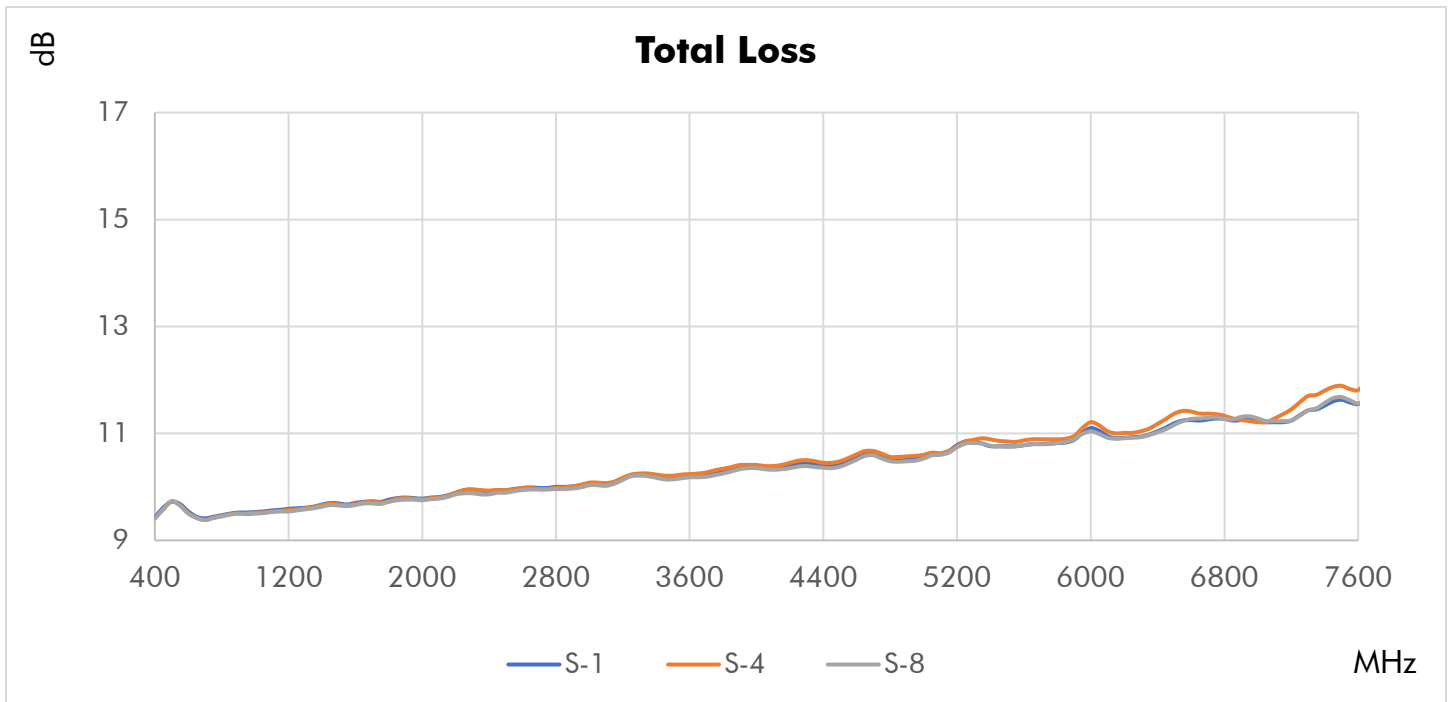
Connector Interface	SMA-Female
Operating Temperature <sup>2</sup>	-10 to +65 °C
Storage Temperature	-55 to +100 °C
Weight Estimate	20 oz (567 g)
Humidity	10-90% non-condensing
Environment	Indoor use only
CAGE Code	78YZ0

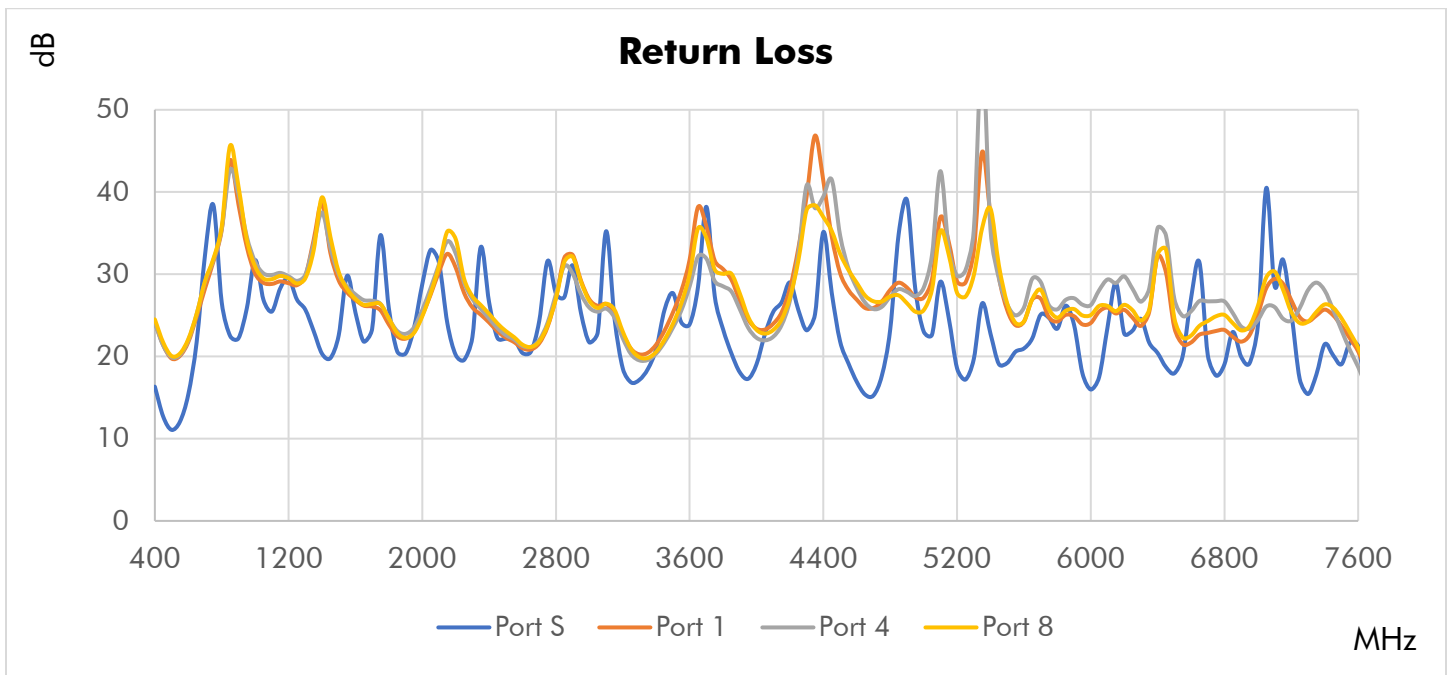
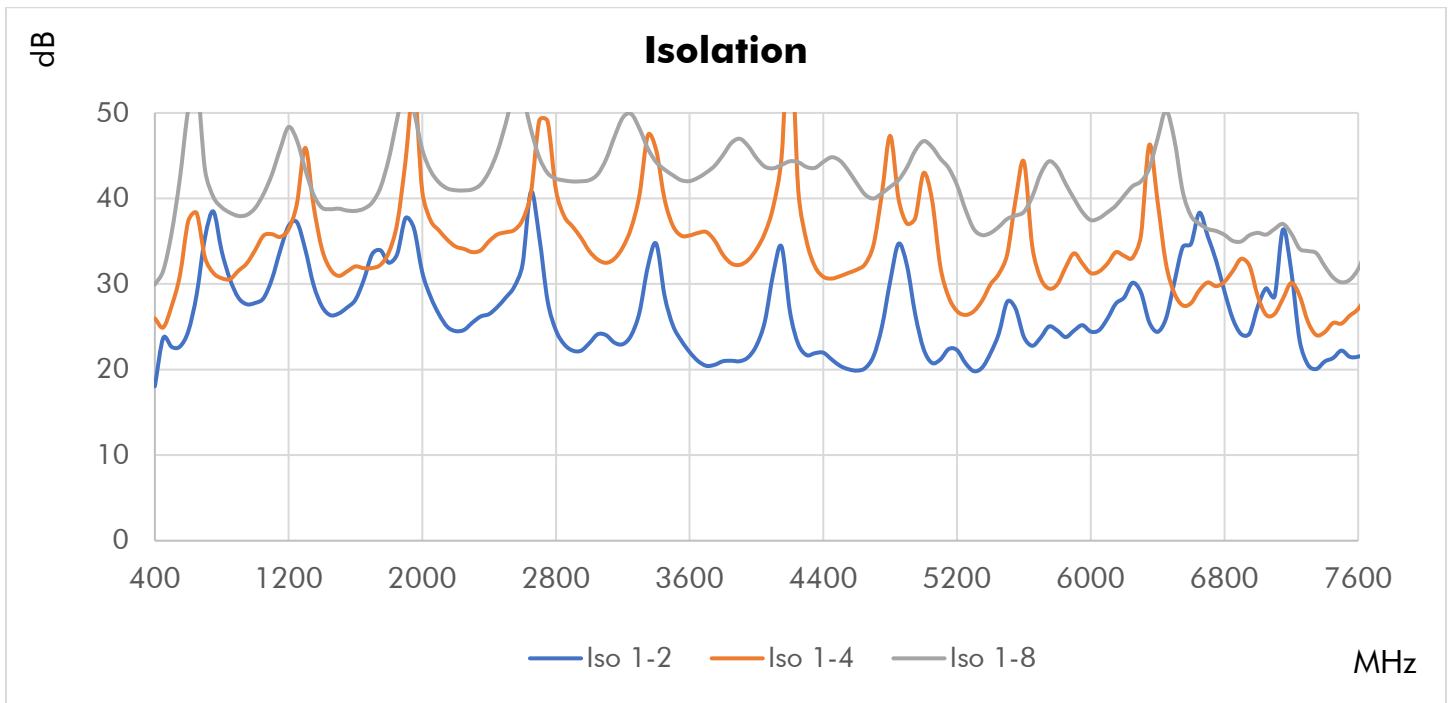
### Materials

RoHS Compliant <sup>3</sup>	Yes
REACH Compliant <sup>3</sup>	Yes
Enclosure	Aluminum
Connectors	Brass, Gold Plated
Contacts	Be Cu, Gold Plated
Insulators	PTFE
Finish	Green Paint

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

## Typical Performance at +25 °C

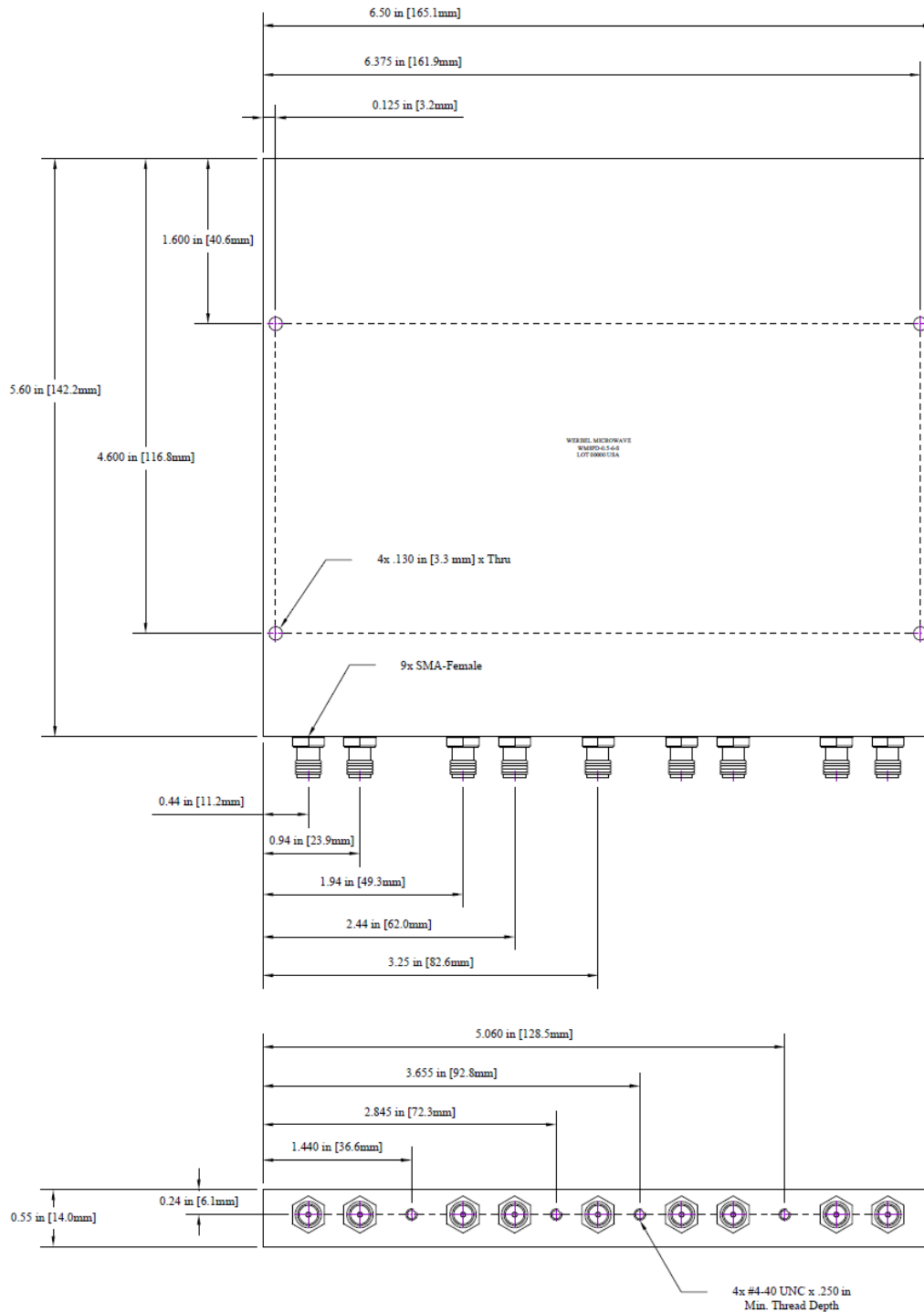




## Typical Performance Data

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	16.33	24.15	24.51	9.43	9.41	9.41	18.05	25.99	29.94
500	11.07	19.75	20.06	9.72	9.73	9.73	22.66	27.40	35.94
600	15.38	21.75	22.11	9.54	9.51	9.50	24.48	37.37	50.45
700	32.32	28.27	29.16	9.41	9.38	9.38	35.44	33.08	43.35
800	26.59	35.36	35.77	9.47	9.45	9.45	33.83	30.68	38.97
900	22.20	38.52	40.71	9.52	9.50	9.50	28.40	31.55	37.96
1000	31.72	30.08	30.95	9.53	9.52	9.50	27.79	33.96	38.88
1500	22.56	29.25	30.29	9.69	9.67	9.65	26.55	30.95	38.81
2000	28.78	25.02	24.88	9.78	9.77	9.75	31.37	40.83	45.72
2500	22.16	22.28	23.09	9.94	9.94	9.89	28.43	36.05	48.80
3000	21.70	26.94	26.75	10.06	10.08	10.03	23.09	33.83	42.15
3500	27.70	25.36	23.99	10.19	10.21	10.14	25.15	36.80	42.71
4000	19.05	23.38	23.24	10.39	10.41	10.35	22.83	34.07	44.73
4500	21.84	30.16	32.49	10.43	10.48	10.38	20.44	30.92	44.41
5000	23.05	27.15	25.62	10.55	10.60	10.53	22.39	42.98	46.71
5500	19.21	25.65	26.44	10.76	10.85	10.75	27.93	33.48	37.61
6000	15.98	24.07	25.03	11.10	11.21	11.04	24.44	31.28	37.47
6500	17.95	23.52	24.67	11.19	11.37	11.16	30.20	28.94	46.88
7000	23.79	25.14	26.15	11.24	11.21	11.28	27.41	28.52	35.98
7500	19.05	23.72	24.65	11.63	11.89	11.68	22.22	25.38	30.20
8000	8.36	18.25	16.97	12.45	12.70	12.60	9.58	25.96	28.26

## Outline Dimensions



Outline drawing: OL-8974

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

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

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