

Power Divider, 8-way, 0.5-6GHz, SMA Female

WM8PD-0.5-6-S



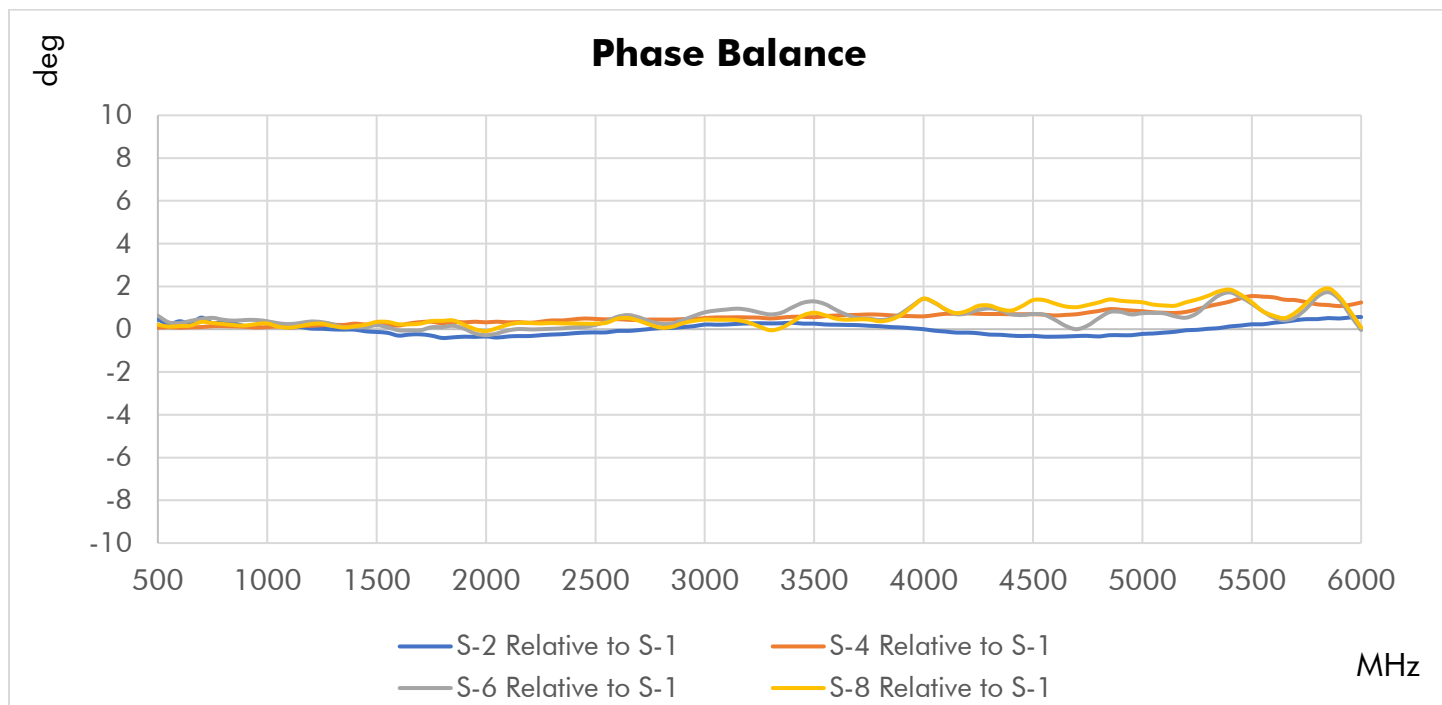
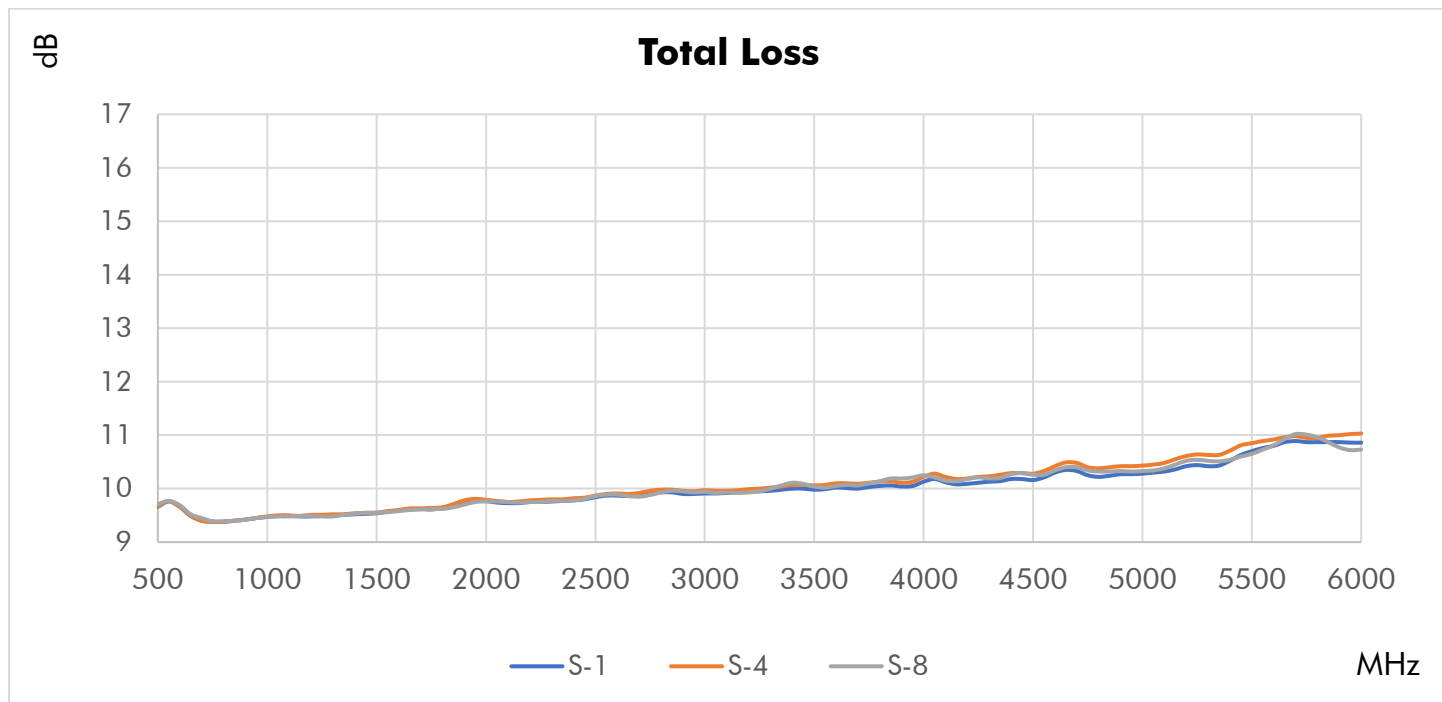
Parameter	Min.	Typ.	Max.	Unit
Frequency	500		6000	MHz
Impedance		50		Ohm
Return Loss (Port S)	9.5	12.7		dB
Return Loss (Port 1-8)	13.7	16.3		dB
Insertion Loss (above 9.03dB)	500-3000 MHz 3000-6000 MHz	1.0 2.2	1.9 2.9	dB
Isolation	17	20		dB
Amplitude Balance		0.4	0.8	dB
Phase Balance		6	12	Degrees
Input Power (CW) ¹		30		W, max

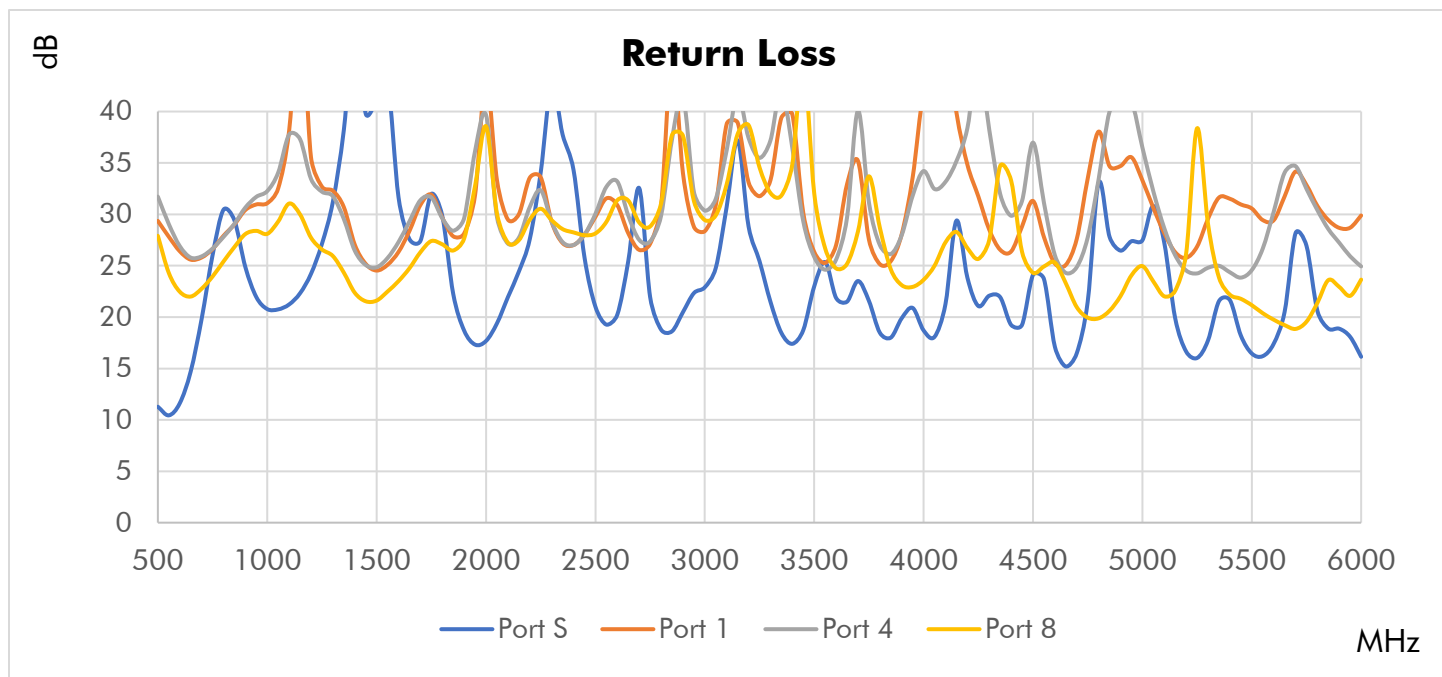
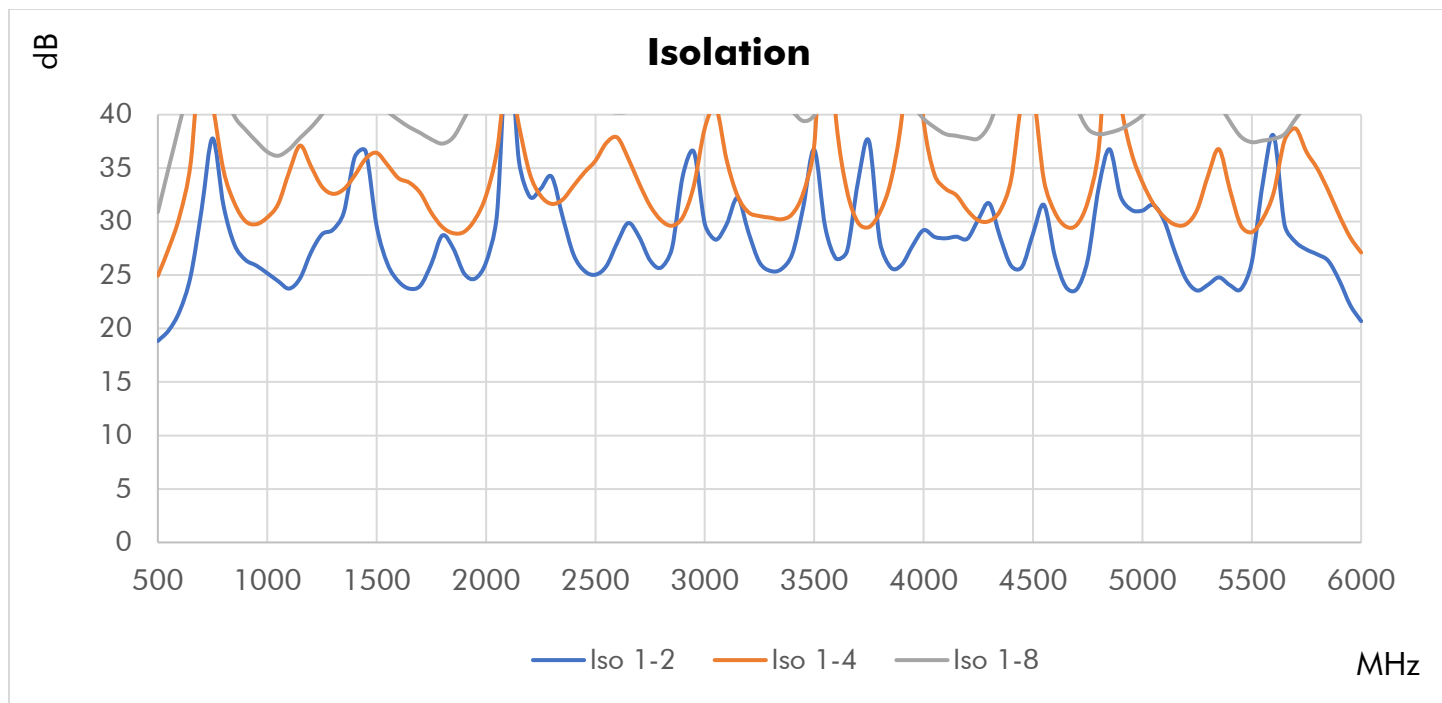
Connector Interface	SMA-Female
Operating Temperature ²	-40 to +85 °C
Storage Temperature	-55 to +100 °C
Nominal Weight	540 g (19 oz)
Operating Humidity	10-90% (non-condensing)
Operating Environment	Indoor Use Only
HTSUS Code	8548.00.0000
ECCN	EAR99

RoHS Status ³	RoHS3 Compliant
REACH Status ³	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. 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

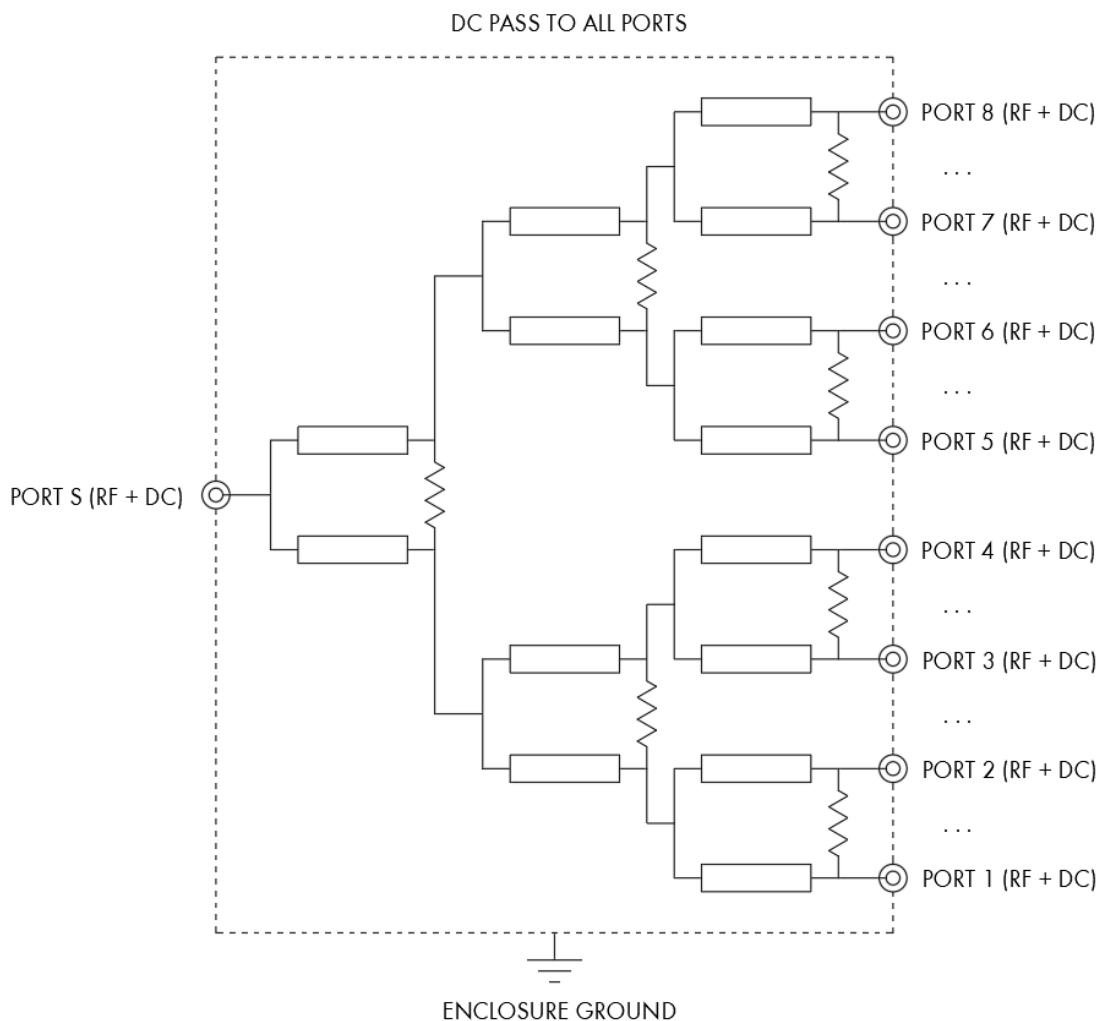




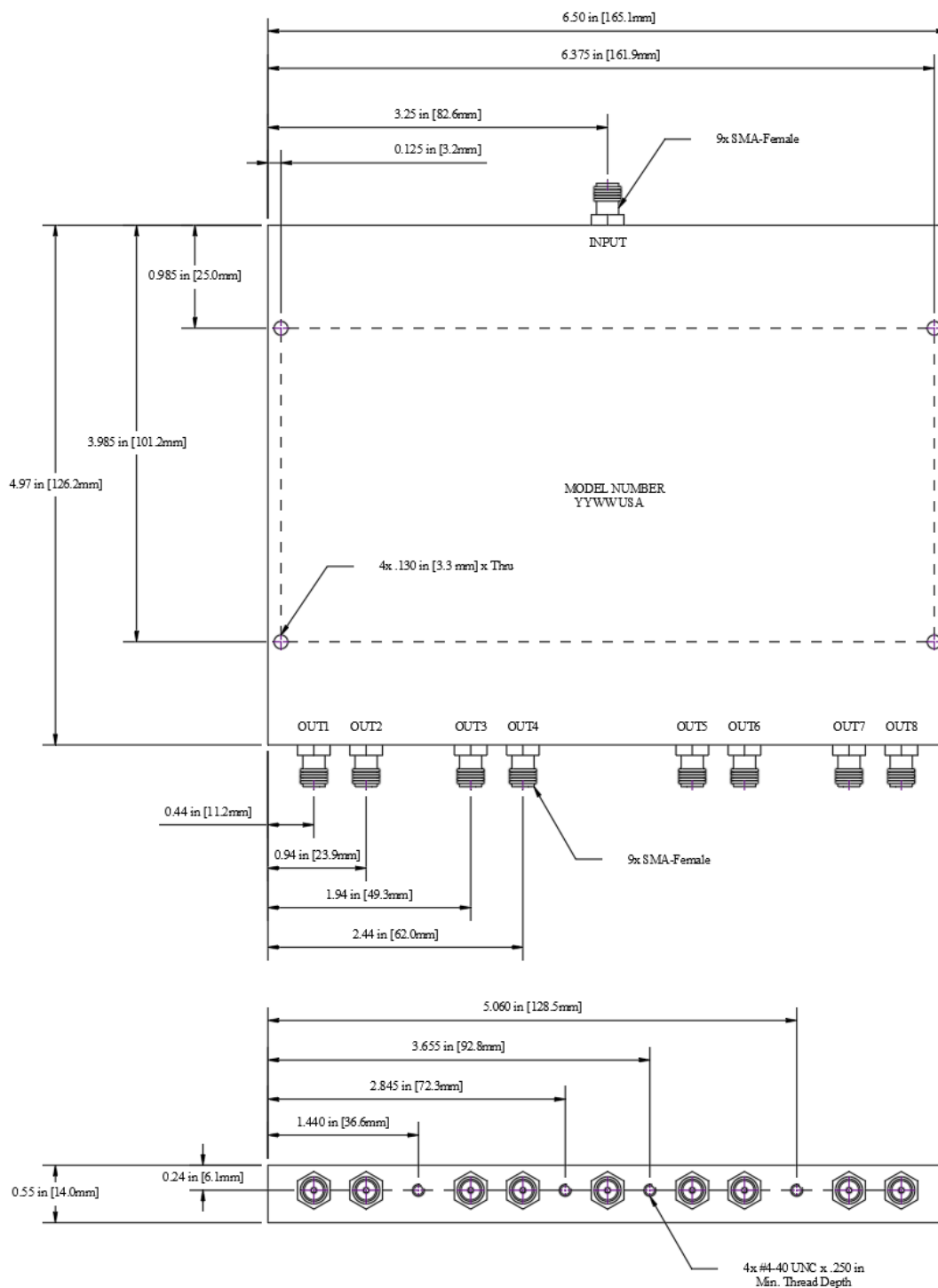
Typical Performance Data

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
500	11.3	29.4	31.7	27.9	9.66	9.67	9.71	18.8	25.0	30.9
550	10.4	27.8	29.1	24.3	9.76	9.77	9.77	19.8	27.5	35.1
600	11.6	26.4	26.9	22.5	9.66	9.66	9.69	21.7	30.6	39.2
650	14.7	25.6	25.8	22.0	9.49	9.50	9.52	24.9	35.5	43.8
700	19.8	25.8	25.9	22.8	9.40	9.40	9.45	31.1	46.5	54.0
750	26.0	26.6	26.7	24.0	9.38	9.38	9.39	37.8	41.0	50.1
800	30.5	27.9	27.8	25.4	9.38	9.38	9.39	31.5	34.8	42.6
850	29.4	29.0	29.1	26.8	9.40	9.40	9.40	27.9	31.7	39.9
900	24.9	30.4	30.7	28.1	9.42	9.42	9.42	26.4	30.1	38.6
950	22.0	31.0	31.7	28.4	9.45	9.45	9.45	25.9	29.8	37.5
1000	20.8	31.1	32.3	28.1	9.47	9.48	9.47	25.2	30.4	36.5
1500	41.1	24.5	24.9	21.6	9.54	9.55	9.55	29.6	36.4	41.2
2000	17.7	43.2	39.7	38.6	9.77	9.79	9.76	26.2	32.4	42.7
2500	21.0	29.8	30.0	28.1	9.84	9.87	9.86	25.0	35.7	40.4
3000	22.9	28.4	30.4	29.4	9.91	9.97	9.94	29.8	38.7	48.8
3500	23.0	26.3	25.9	32.0	9.98	10.06	10.04	36.7	37.1	39.9
4000	18.7	41.9	34.2	23.6	10.13	10.22	10.25	29.2	39.4	39.6
4500	24.1	31.3	37.0	24.3	10.16	10.28	10.26	28.9	41.9	52.4
5000	27.5	33.3	36.5	25.0	10.28	10.43	10.33	31.0	33.7	40.0
5500	16.5	30.6	24.6	21.2	10.70	10.85	10.65	26.2	29.0	37.4
6000	16.1	29.9	24.9	23.7	10.86	11.03	10.73	20.7	27.1	40.9

Simplified Electrical Schematic



Outline Dimensions



Outline drawing: OL-8066

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

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

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