

Power Divider, 6-way, 2-18GHz, SMA Female

WM6PD-2-18-S



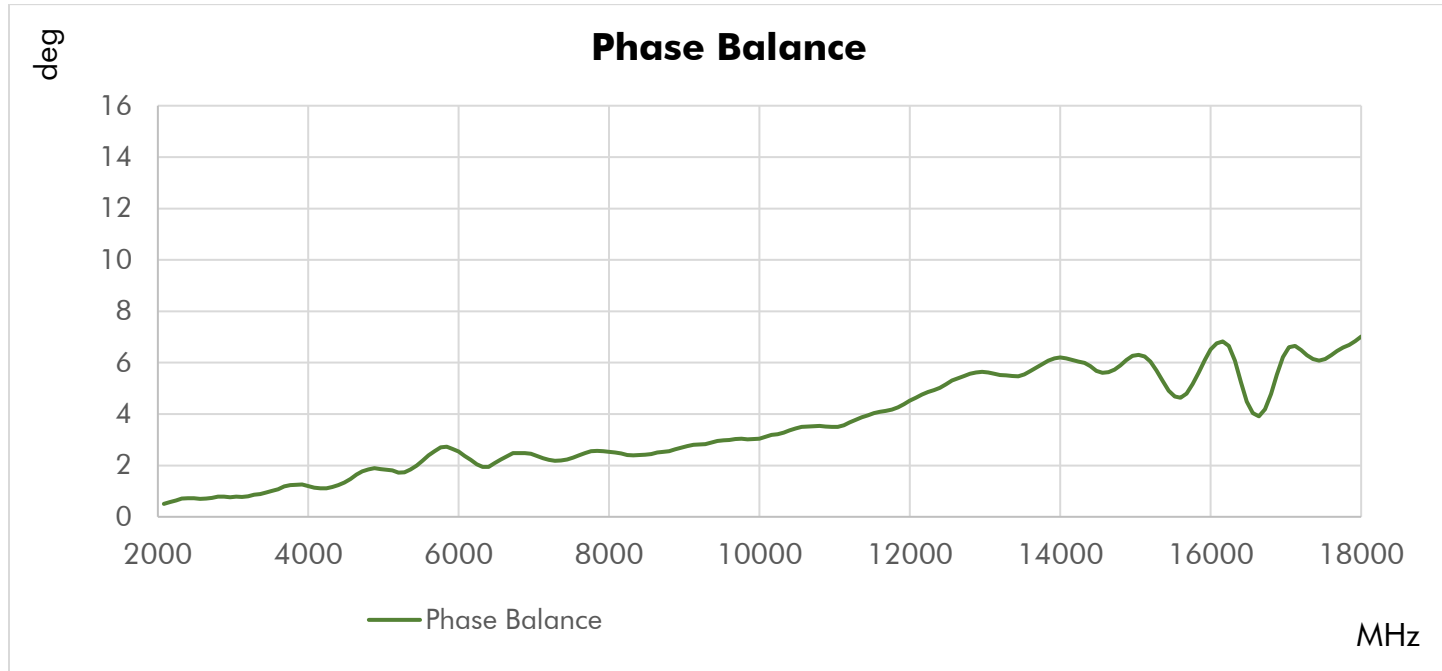
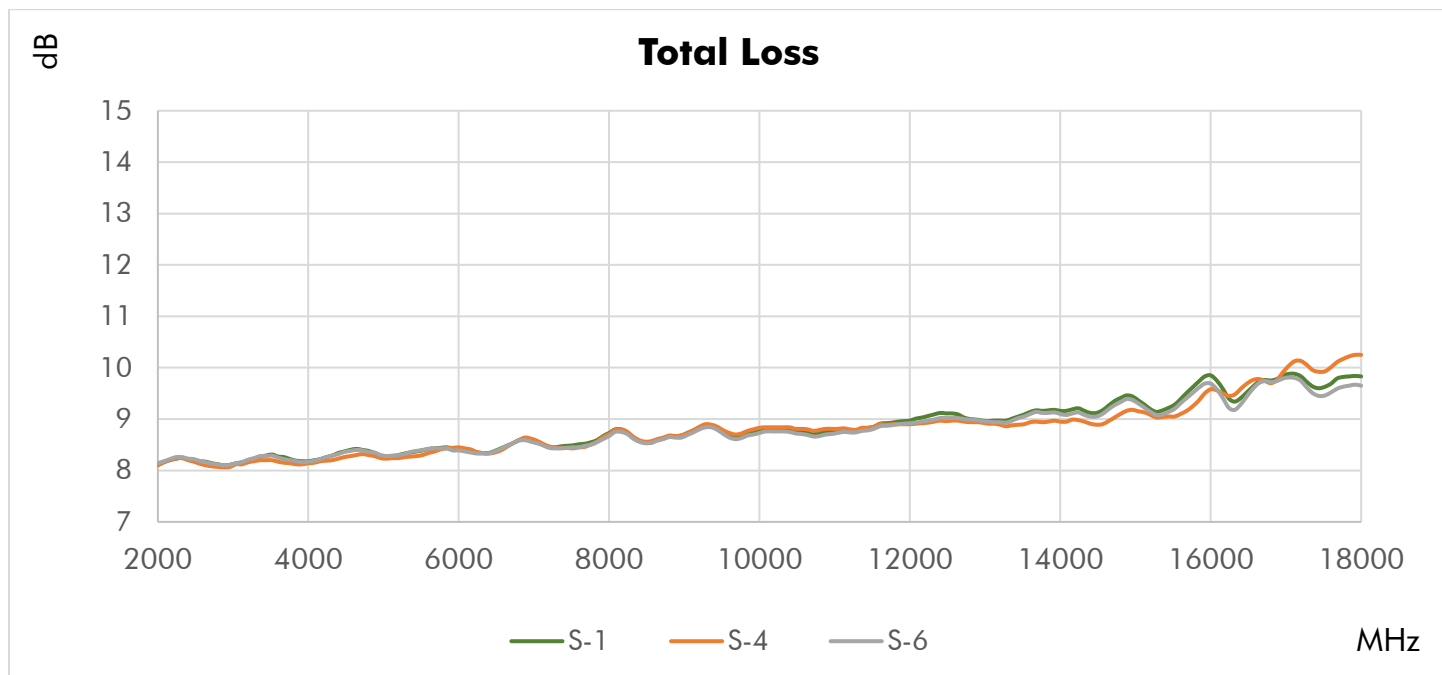
Parameter	Min.	Typ.	Max.	Unit
Frequency Range	2000		18000	MHz
Impedance		50		Ω
Return Loss (Port S)	9.5	12		dB
Return Loss (Ports 1-6)	13	18.3		dB
Insertion Loss (above 7.78 dB)		1.4	3.4	dB
Isolation	15	18		dB
Amplitude Balance		0.3	1.1	dB
Phase Balance		4	14	Degree
Input Power (CW) ¹		30		W, max

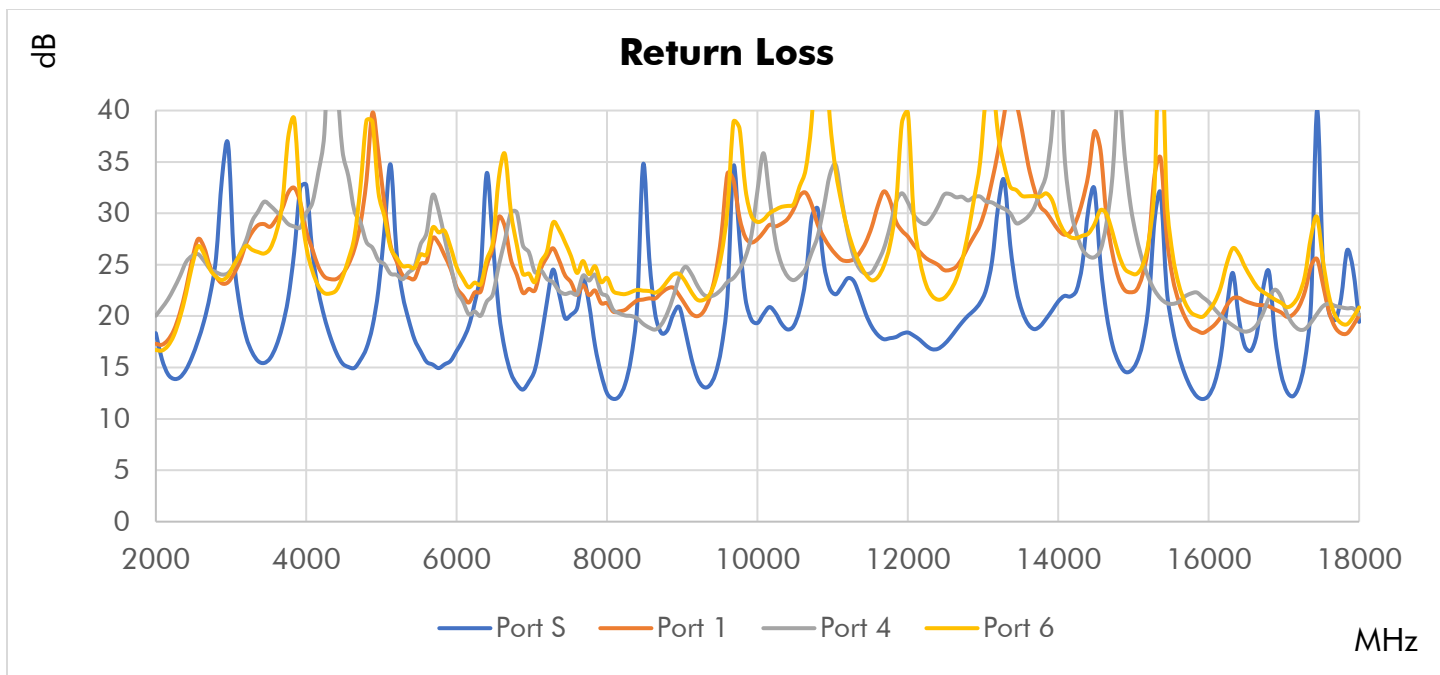
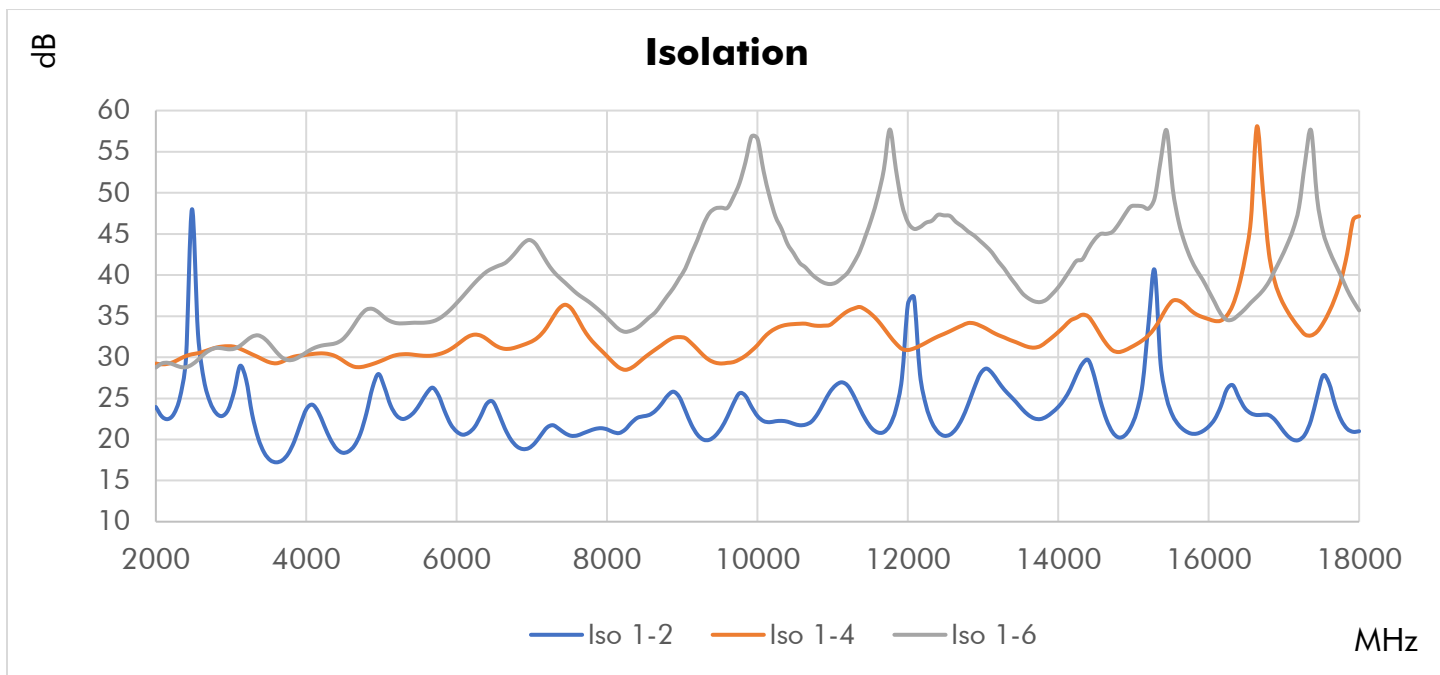
Connector Interface	SMA-Female
Operating Temperature ²	-55 to +85 °C
Storage Temperature	-55 to +100 °C
Nominal Weight	425 g (15 oz)
Operating Humidity	10-90% (non-condensing)
Operating Environment	Indoor Use Only
CAGE Code	78YZ0

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

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

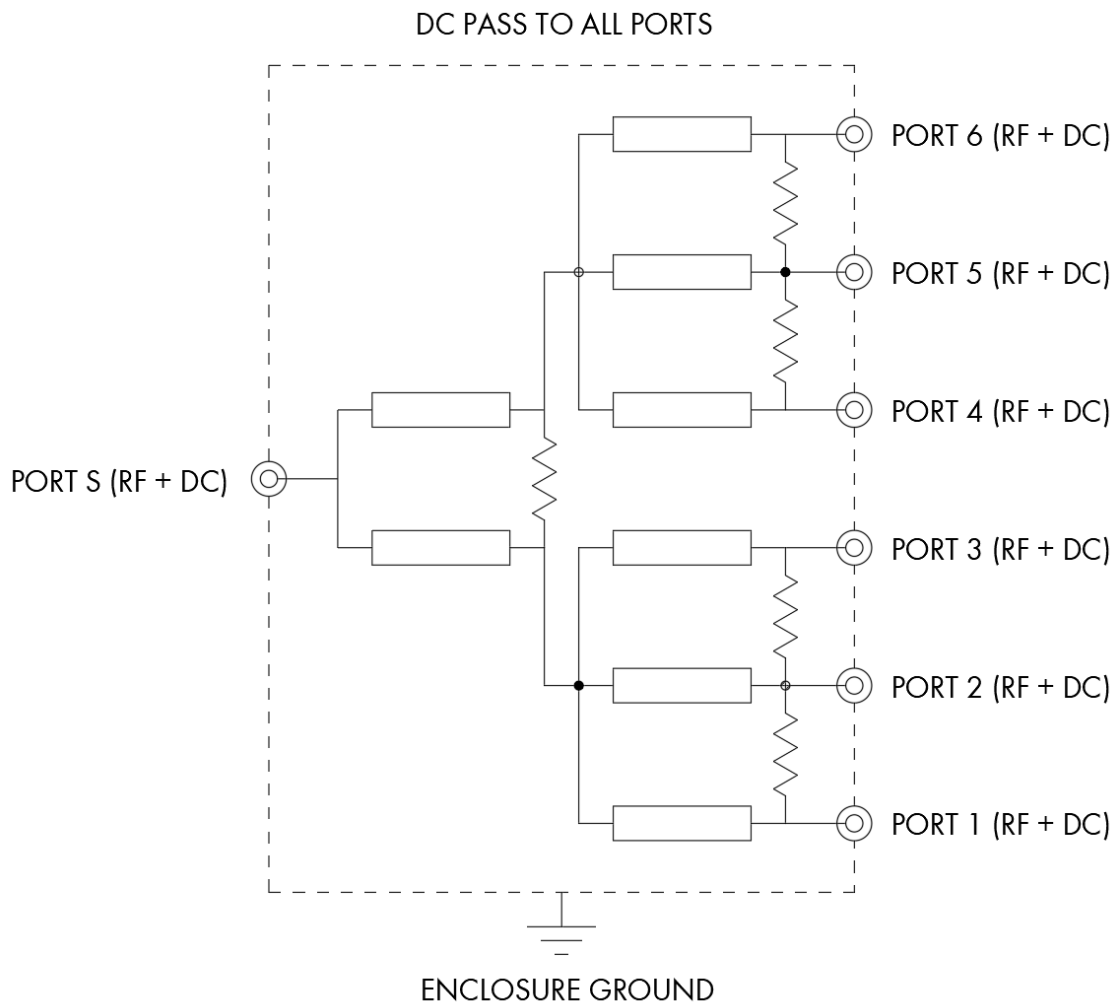




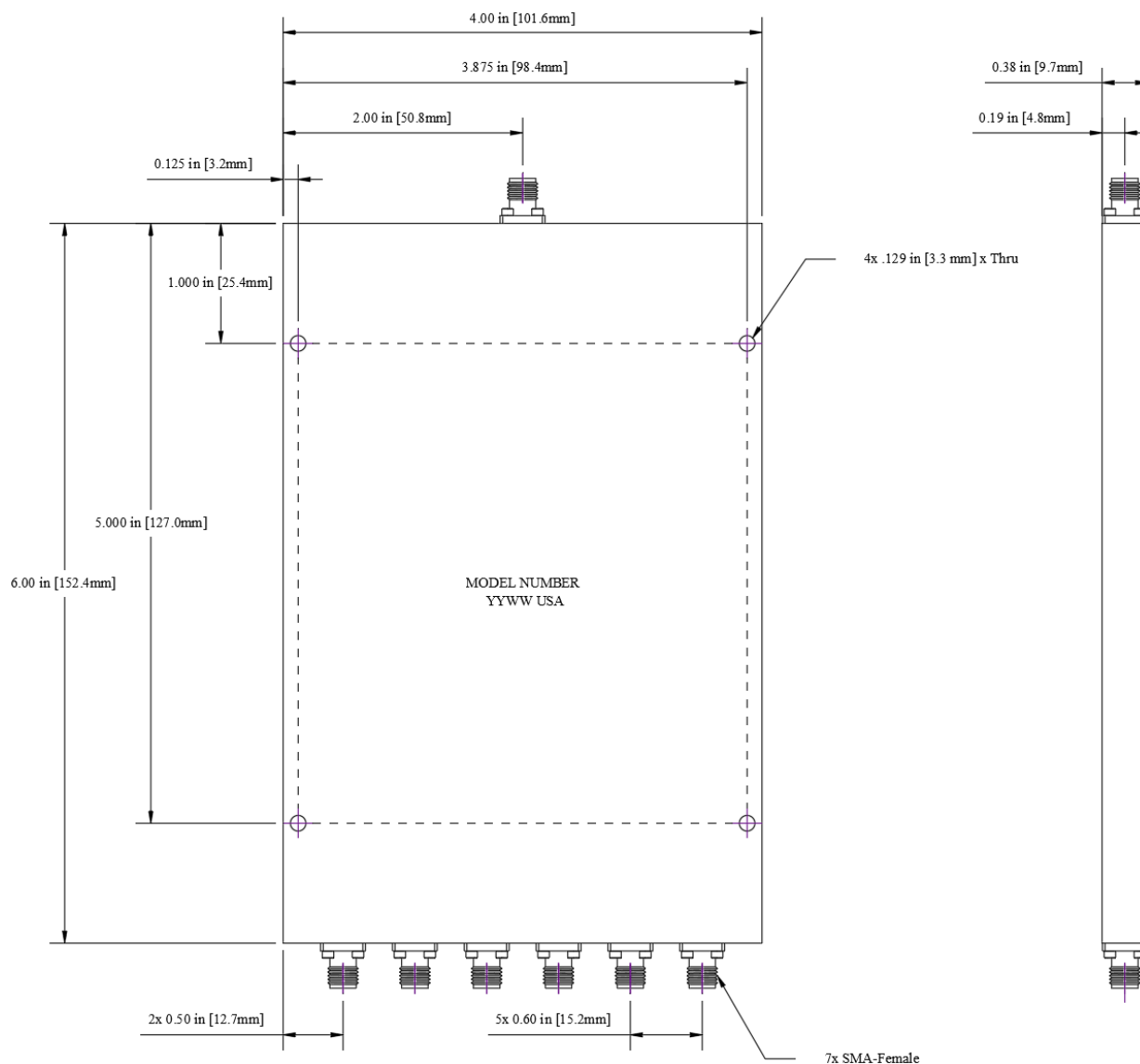
Typical Performance Data

Frequency (MHz)	Return Loss (dB)				Total Loss (dB)			Isolation (dB)		
	Port S	Port 1	Port 4	Port 6	S-1	S-2	S-4	1-2	1-4	1-6
2000	18.3	17.3	20.0	16.7	8.11	8.10	8.14	23.95	29.23	28.75
2480	16.0	25.4	25.9	24.8	8.21	8.17	8.22	47.99	30.36	29.11
2960	36.7	23.3	24.2	23.9	8.11	8.07	8.11	23.59	31.34	30.97
3520	15.9	28.7	30.8	26.6	8.31	8.20	8.29	17.49	29.36	31.56
4000	32.7	28.3	30.0	26.8	8.18	8.14	8.17	23.67	30.30	30.59
4480	15.4	24.1	36.2	23.8	8.37	8.26	8.36	18.39	29.64	32.15
4960	22.6	35.8	25.4	32.0	8.29	8.24	8.30	27.96	29.43	35.47
5520	16.6	25.1	27.0	26.0	8.39	8.30	8.40	24.45	30.21	34.19
6000	16.6	22.8	22.5	24.8	8.42	8.45	8.39	20.96	31.49	36.59
6480	27.3	26.7	22.1	27.2	8.38	8.35	8.37	24.60	31.65	40.82
6960	13.6	22.7	26.2	24.1	8.59	8.62	8.56	18.95	31.77	44.26
7520	20.1	23.3	22.3	25.8	8.49	8.43	8.45	20.45	35.97	38.39
8000	12.5	21.3	21.9	23.7	8.73	8.71	8.67	21.23	30.12	34.79
8480	34.8	21.6	19.2	22.5	8.54	8.56	8.53	22.82	29.84	34.18
8960	20.9	22.0	23.8	24.1	8.68	8.68	8.64	25.17	32.45	39.60
9520	16.9	27.9	22.6	26.0	8.73	8.78	8.71	21.41	29.24	48.19
10000	19.3	27.5	32.2	29.2	8.76	8.83	8.73	22.84	31.48	56.56
10480	19.0	30.4	23.5	30.9	8.77	8.81	8.72	21.91	34.03	42.65
10960	22.7	26.7	33.7	39.3	8.75	8.81	8.71	25.74	33.92	38.90
11520	19.0	28.7	24.3	23.5	8.85	8.85	8.81	21.35	35.19	46.97
12000	18.4	27.7	31.1	39.8	8.97	8.90	8.92	36.47	30.88	46.41
12480	17.2	24.5	31.8	21.8	9.11	8.96	9.02	20.45	32.84	47.25
12960	21.3	28.9	31.6	35.0	8.97	8.93	8.96	27.95	33.84	44.14
13520	20.4	37.9	29.2	31.7	9.09	8.90	9.05	23.68	31.51	37.79
14000	21.4	28.4	48.8	29.4	9.16	8.95	9.10	23.97	33.07	38.52
14480	32.4	38.0	25.7	28.9	9.12	8.89	9.05	27.62	33.93	44.29
14960	14.7	22.3	30.8	24.2	9.44	9.18	9.37	21.44	31.19	48.31
15520	18.8	23.7	21.2	26.0	9.28	9.05	9.20	22.91	36.87	50.54
16000	12.3	18.7	21.4	20.6	9.85	9.58	9.69	21.58	34.64	38.05
16480	17.1	21.5	18.5	24.8	9.52	9.69	9.44	23.81	41.95	35.85
16960	14.4	20.4	21.9	21.3	9.85	9.91	9.79	21.43	37.10	42.04
17520	24.7	23.0	21.0	25.3	9.63	9.93	9.46	27.79	34.14	45.23
18000	19.4	20.1	20.1	20.9	9.83	10.25	9.65	21.00	47.15	35.70

Simplified Electrical Schematic



Outline Dimensions



Outline drawing: OL-6182

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

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

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