

Power Divider, 2-way, 6-26.5 GHz, SMA Female

ESAT-2PD06265S

Description

Model WM2PD-6-26.5-S is a wideband 2-way in-line power splitter that covers 6 to 26.5GHz with SMA-F connectors. Aluminum body enclosure with stainless steel connectors. Return loss at the input port is 17.2dB typical. Return loss output is 18.4dB typical. Insertion loss above 3.01dB is 0.57dB typical. Isolation of the splitter between outputs is 21dB typical. The unit has excellent amplitude and phase balance. Designed to handle 20W as a splitter. Made in USA.



Photo is representative.

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range	--	6000	--	26500	MHz
Impedance	--	--	50	--	Ω
Return Loss (Port S)	6000-18000	15.0	17.2	--	dB
	18000-26500	14.0	16.1		
Return Loss (Port 1-2)	6000-18000	15.0	18.4	--	dB
	18000-26500	14.0	16.2		
Insertion Loss Above 3.0dB	6000-18000	--	0.57	0.80	dB
	18000-26500	--	0.87	1.20	
Isolation	6000-18000	17.0	21.0	--	dB
	18000-26500	17.0	21.8		
Amplitude Unbalance ($\pm$) ¹	6000-18000	--	0.11	0.30	dB
	18000-26500	--	0.19	0.50	
Phase Unbalance ($\pm$) ¹	6000-18000	--	1.1	3.0	Degree
	18000-26500	--	2.2	6.0	
Input Power (CW) ²	--	--	--	20	W

Mechanical

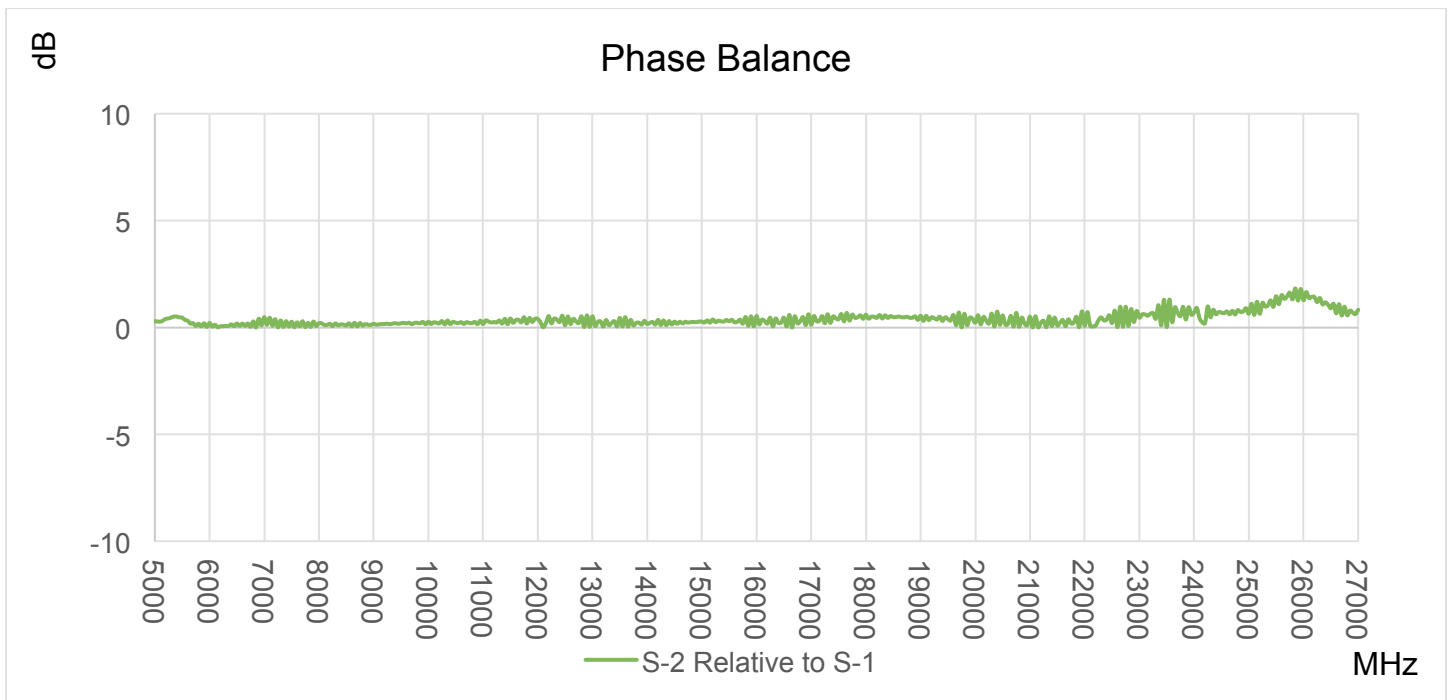
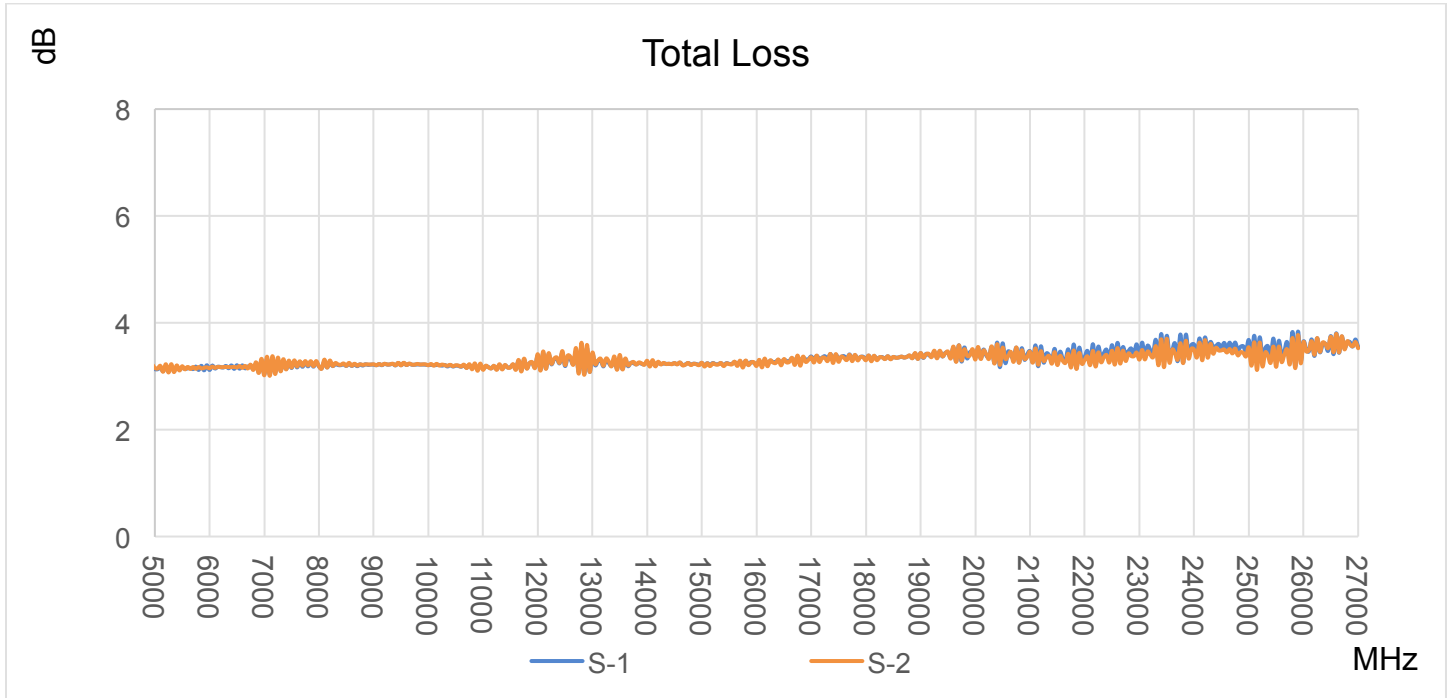
Connector Interface	SMA-Female
Operating Temperature ³	-55 to +85 °C
Storage Temperature	-55 to +100 °C
Nominal Weight	34.7 g (1.22 oz)
Humidity	10-90% non-condensing
Environment	Indoors Use Only
CAGE Code	87MG8

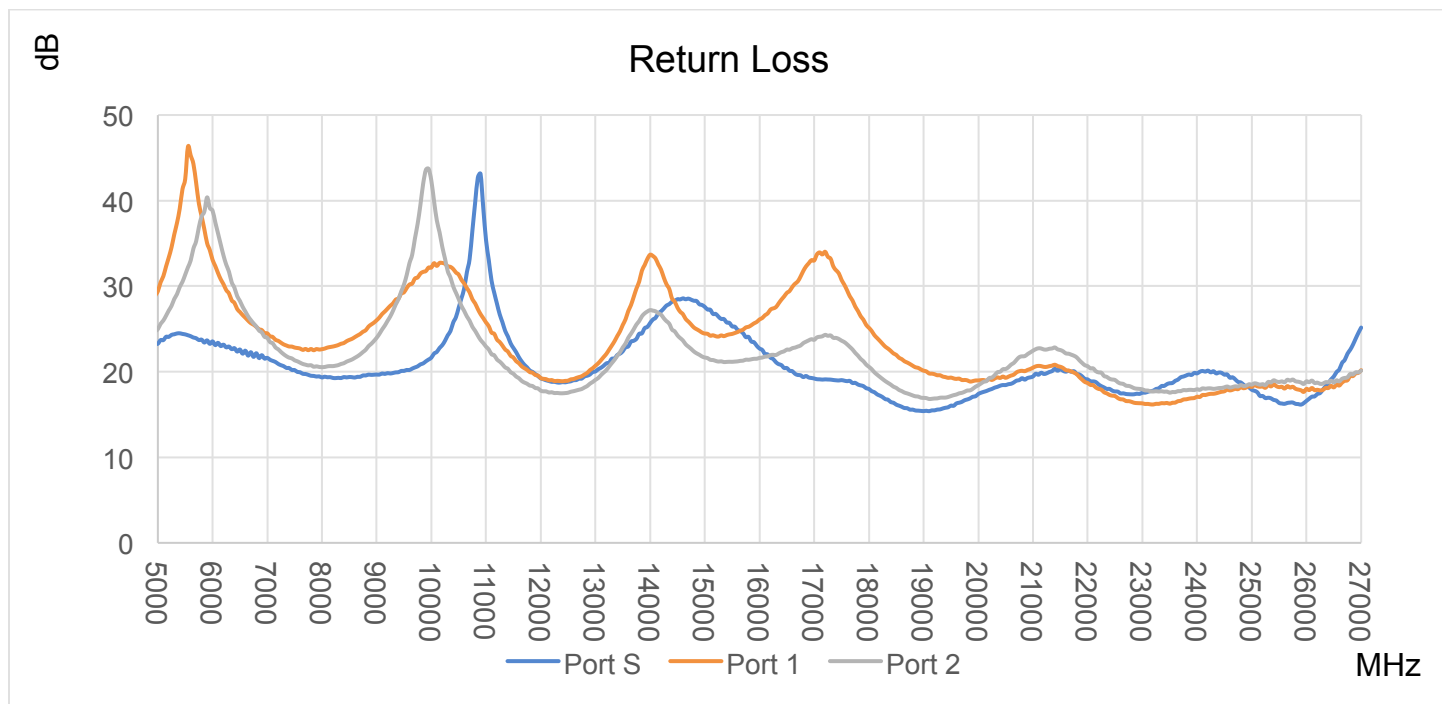
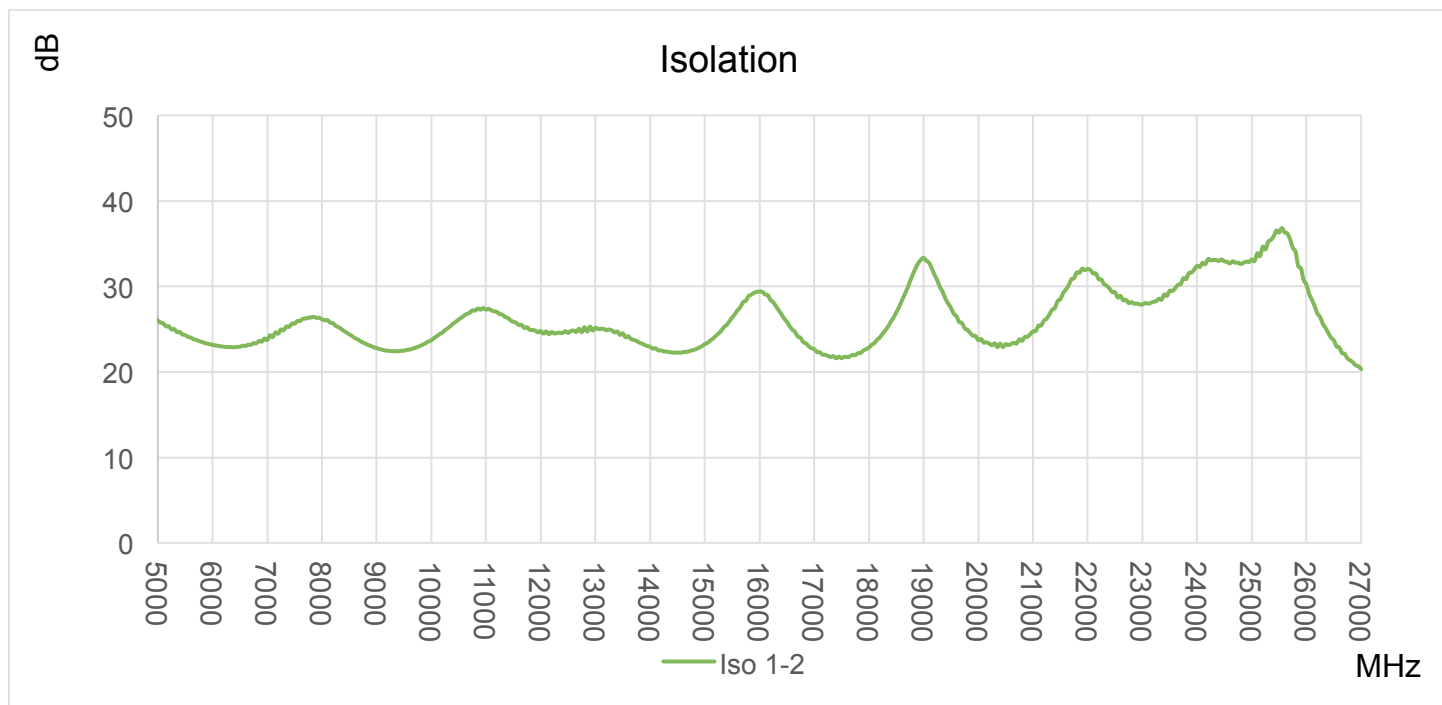
Materials

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

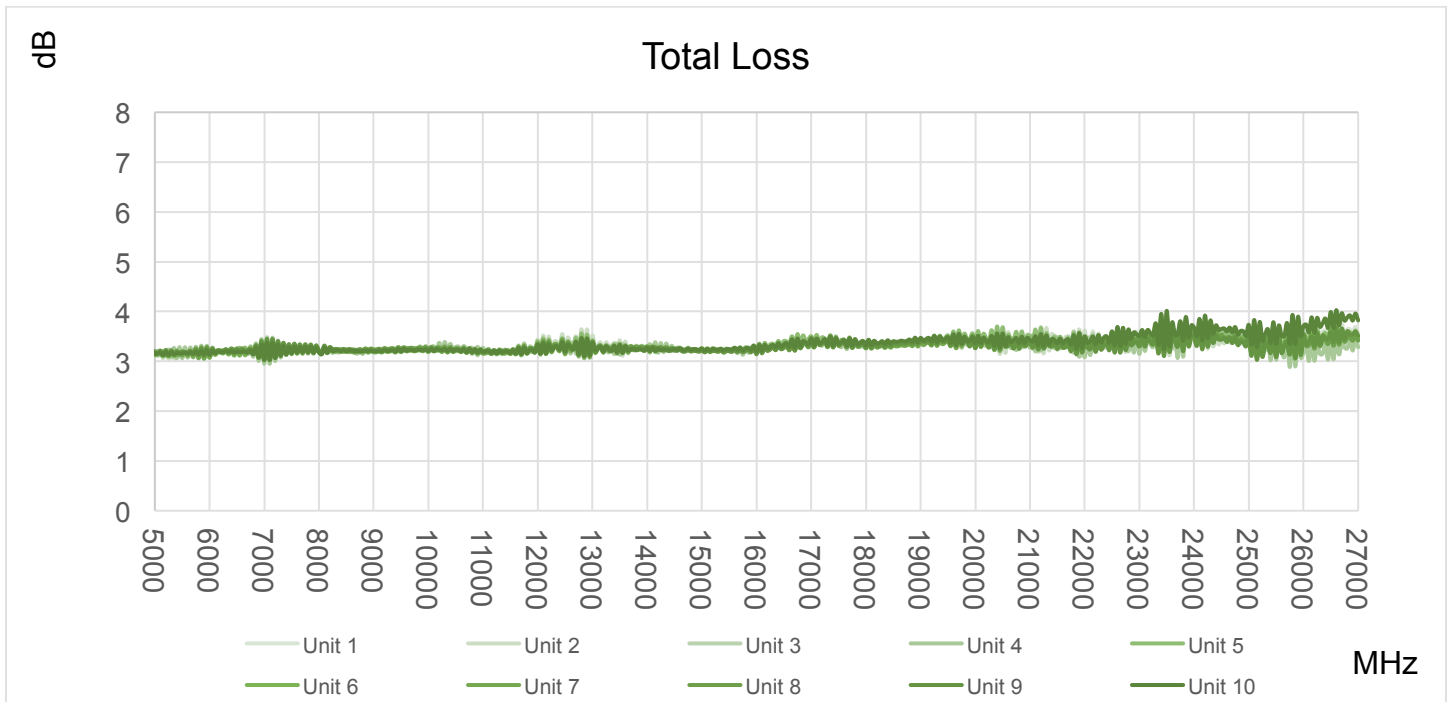
1. With reference to average.
2. All output ports should be terminated in a 50-ohm load with 1.2:1 max VSWR.
3. Electrical specifications at +25 °C.
4. To the best of our knowledge at the time of publication.

Typical Performance at +25 °C





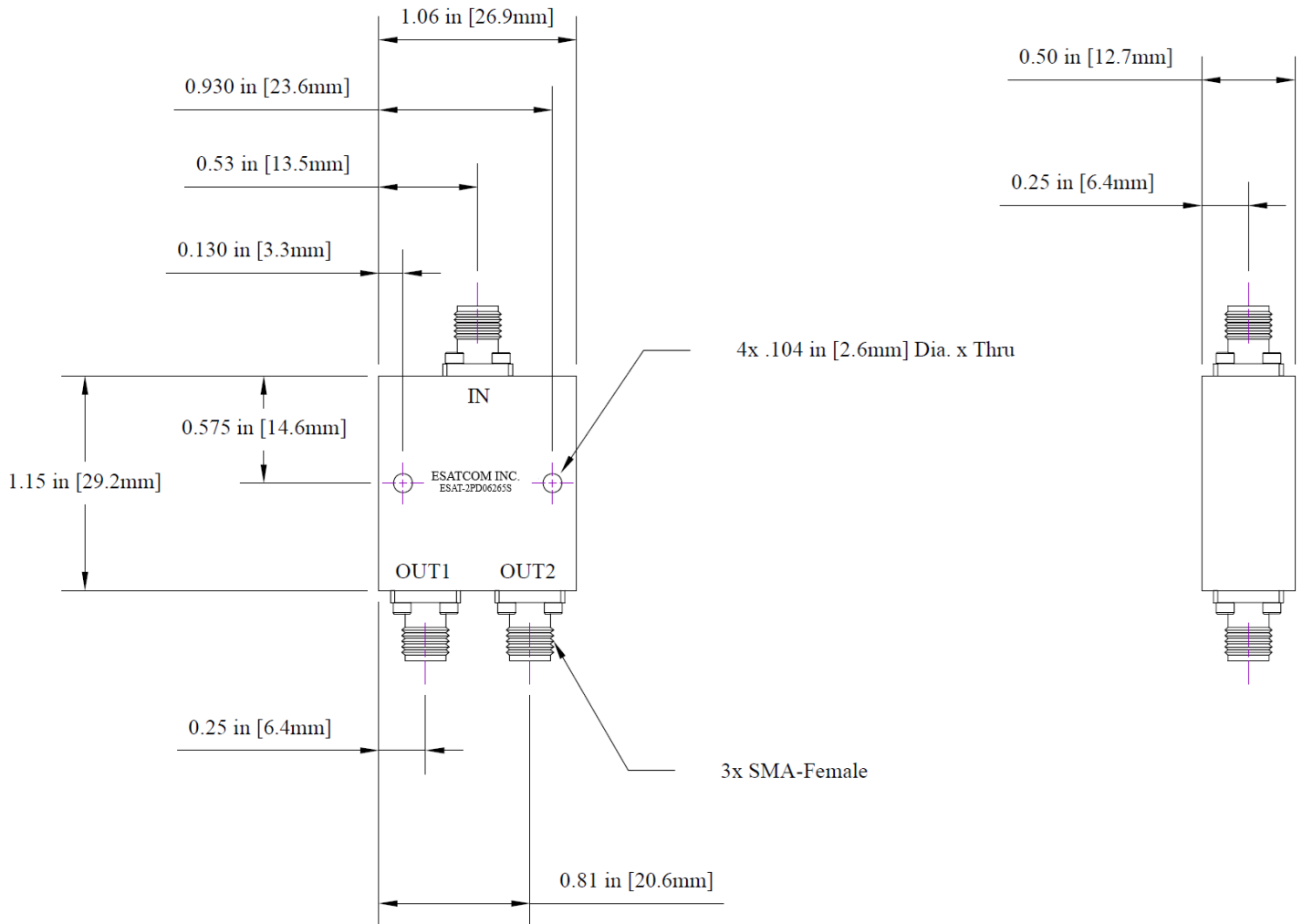
Repeatability in Production



Typical Performance Data

Frequency (MHz)	Return Loss (dB)			Total Loss (dB)		Isolation (dB) 1-2
	Port S	Port 1	Port 2	S-1	S-2	
950	9.93	12.31	12.21	3.51	3.53	5.95
1000	9.95	12.51	12.41	3.54	3.56	6.19
1500	10.22	14.29	14.19	3.43	3.45	8.55
2000	10.69	15.32	15.42	3.50	3.51	11.47
2500	11.53	16.05	16.38	3.39	3.40	14.72
3000	13.14	17.27	17.64	3.10	3.13	18.54
3500	15.07	18.57	18.61	3.29	3.32	23.65
4000	17.69	20.67	19.90	3.08	3.10	27.66
4500	20.78	24.15	21.99	3.14	3.18	27.80
5000	23.28	29.41	24.98	3.14	3.16	26.00
5500	24.37	42.52	31.35	3.16	3.19	24.33
6000	23.55	33.08	38.84	3.12	3.15	23.17
6500	22.60	26.99	28.28	3.21	3.17	22.96
7000	21.63	24.49	23.97	3.04	3.02	23.74
7500	20.19	22.83	21.34	3.16	3.17	25.66
8000	19.33	22.64	20.54	3.19	3.19	26.17
8500	19.38	23.72	21.30	3.20	3.20	24.40
9000	19.68	26.02	23.97	3.22	3.23	22.80
9500	20.10	29.29	30.20	3.21	3.21	22.50
10000	21.65	32.18	42.33	3.21	3.21	23.72
11000	35.39	25.76	22.93	3.15	3.12	27.31
12000	19.23	19.26	17.79	3.39	3.42	24.80
13000	20.04	20.70	19.05	3.42	3.45	25.19
14000	25.70	33.68	27.21	3.27	3.29	22.96
15000	27.58	24.46	21.66	3.25	3.26	23.28
16000	22.72	26.11	21.62	3.23	3.20	29.40
17000	19.21	33.01	23.73	3.37	3.36	22.69
18000	17.99	25.14	20.58	3.32	3.30	22.87
19000	15.40	20.12	16.94	3.44	3.44	33.35
20000	17.40	18.98	18.42	3.36	3.31	23.73
21000	19.45	20.48	22.46	3.47	3.46	24.77
22000	19.10	18.68	20.65	3.37	3.31	32.06
23000	17.55	16.30	17.94	3.34	3.31	27.90
24000	19.81	17.08	17.95	3.60	3.50	32.41
25000	17.89	18.23	18.50	3.68	3.54	33.16
26000	16.60	18.00	18.88	3.65	3.64	30.21
27000	25.17	20.18	20.13	3.55	3.53	20.34

Outline Dimensions



Outline drawing: OL-02-0626

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

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

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