

Power Divider, 6-way, 18-26.5 GHz, SMA Female

ESAT-6PD18265S



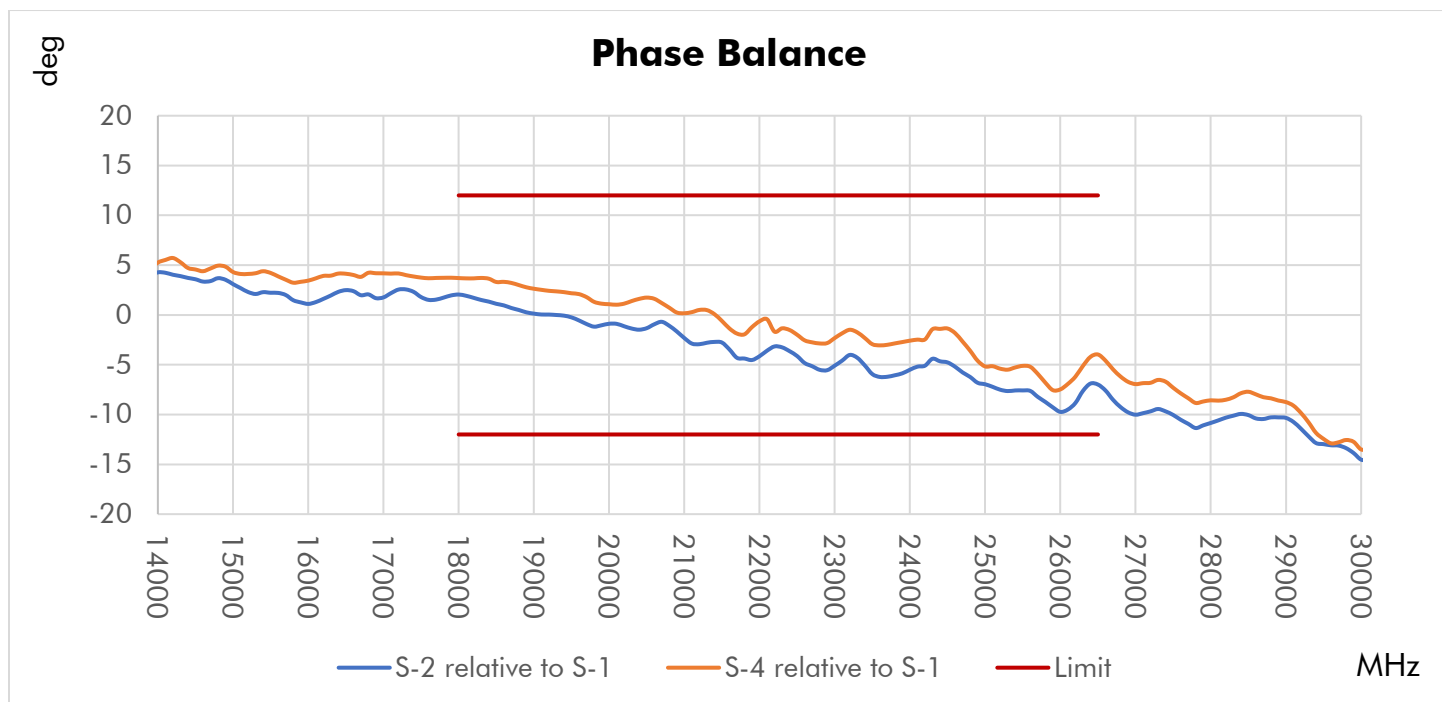
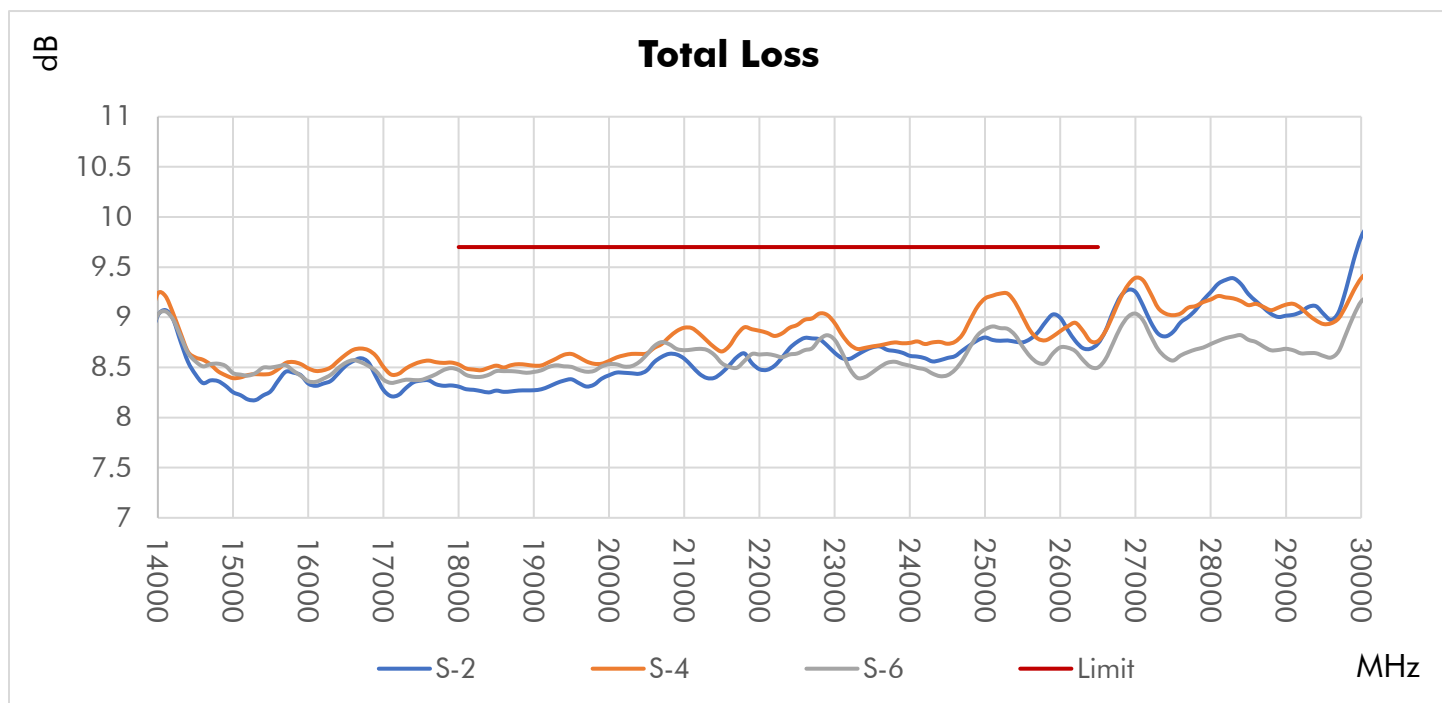
Parameter	Min.	Typ.	Max.	Unit
Frequency Range	18000		26500	MHz
Impedance		50		Ω
Return Loss (Port S)	13.7	15.3		dB, min.
Return Loss (Port 1-6)	12.0	15.4		dB, min.
Insertion Loss above 7.8dB		1.4	1.9	dB, max.
Isolation	18	21.1		dB, min.
Amplitude Unbalance (\pm) ¹		0.37	0.5	dB, max.
Phase Unbalance (\pm) ¹		5.9	12	Degree, max.
Input Power (CW) ²		10		W, max.

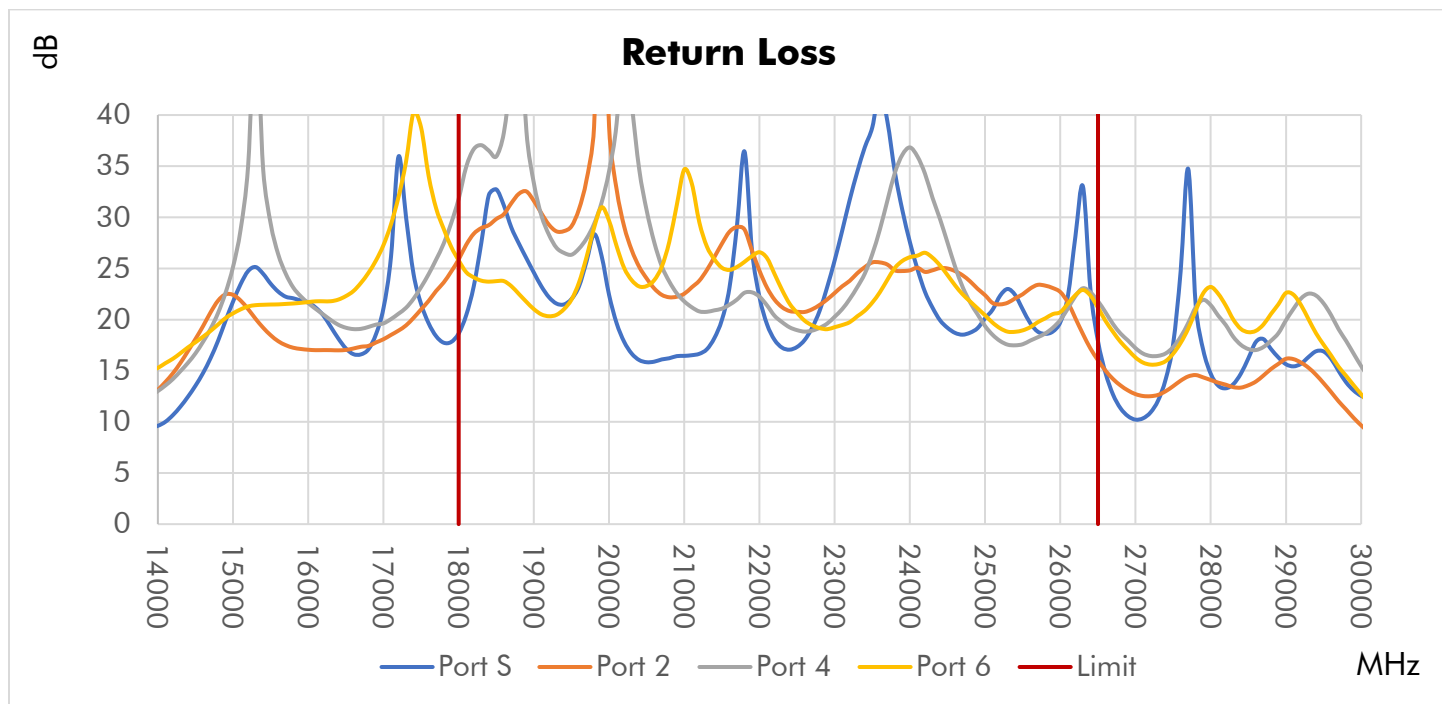
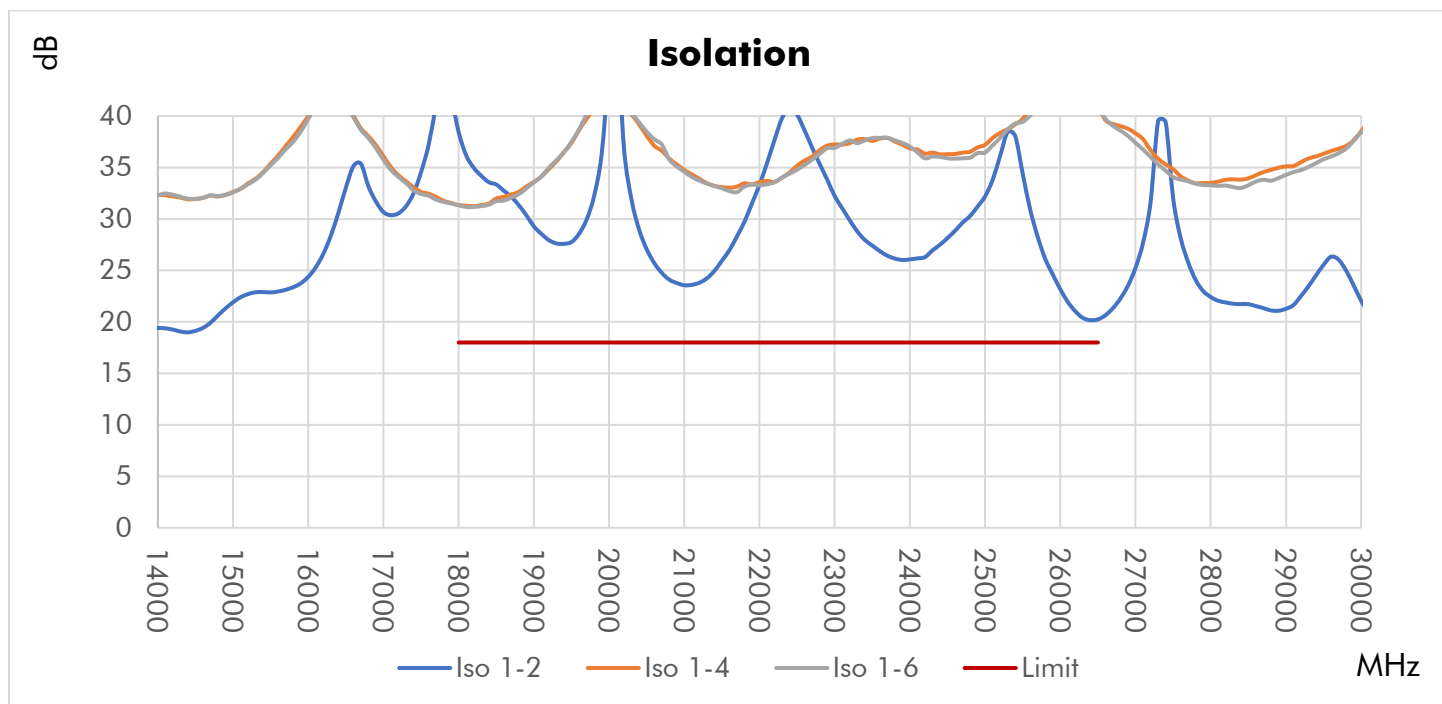
Connector Interface	SMA Female
Operating Temperature ³	-55 to +85 °C
Storage Temperature	-55 to +100 °C
Nominal Weight	164 g (5.78 oz)
Operating Humidity	10-90% (non-condensing)
Operating Environment	Indoor Use Only
HTSUS Code	8548.00.0000
ECCN	EAR99

RoHS Status ⁴	RoHS3 Compliant
REACH Status ⁴	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

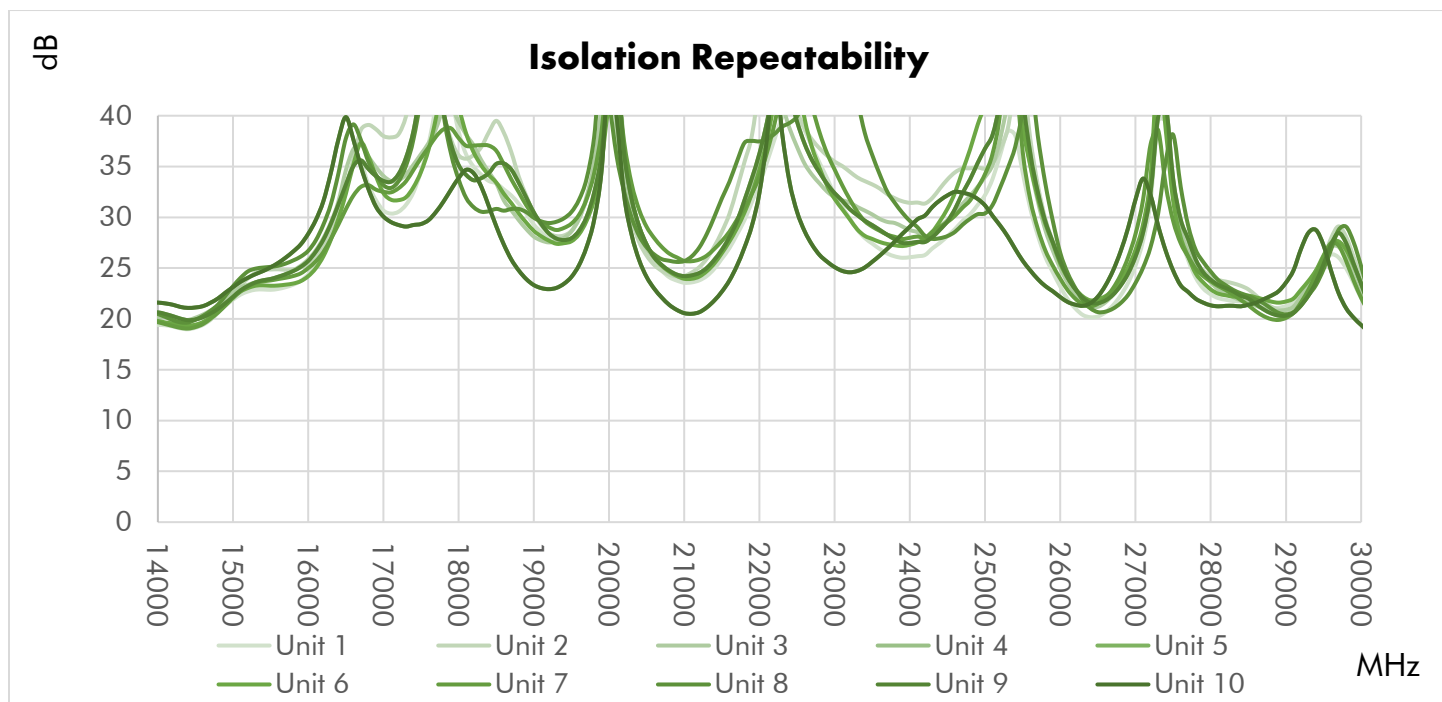
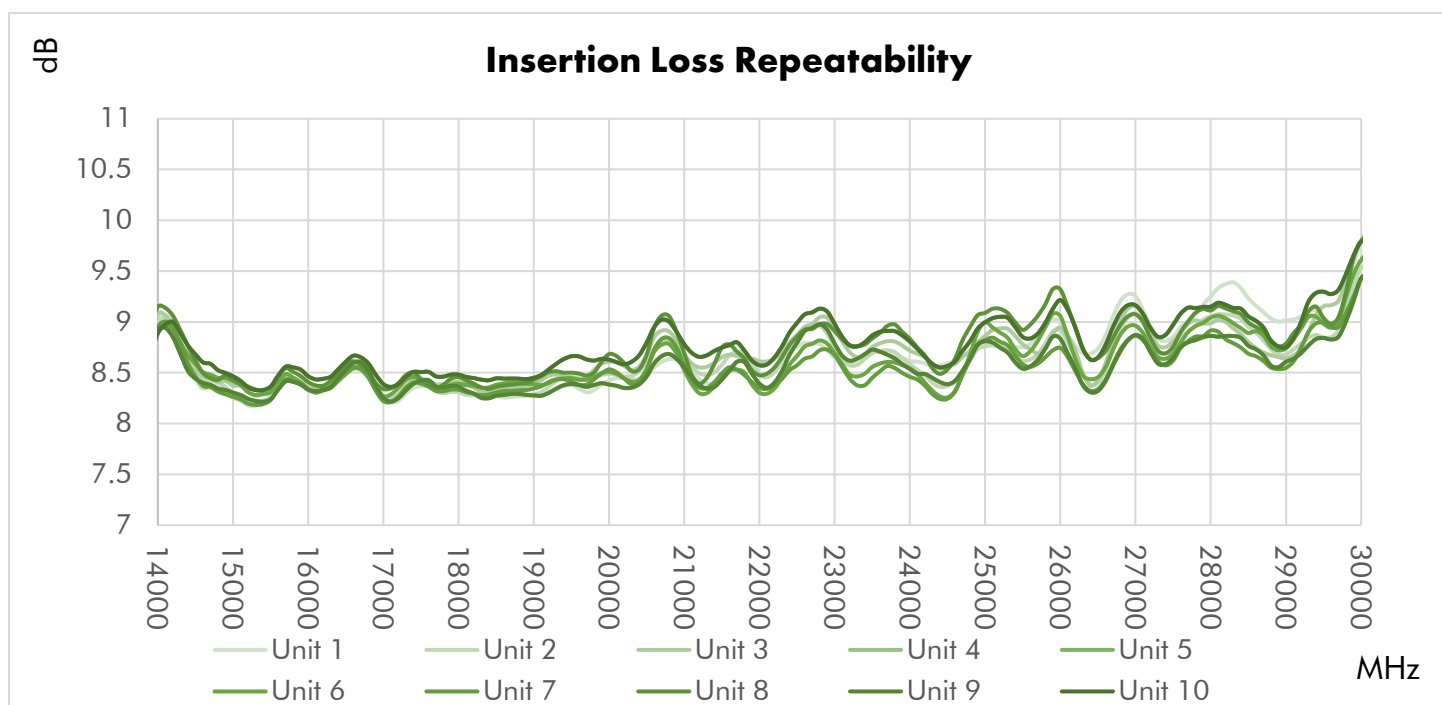
1. With reference to average.
2. All output ports should be terminated in a 50-ohm load with 1.2:1 max VSWR.
3. Electrical specifications are tested at +25 °C.
4. To the best of our knowledge at the time of publication.

Typical Performance at +25 °C





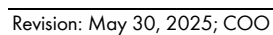
Repeatability in Production



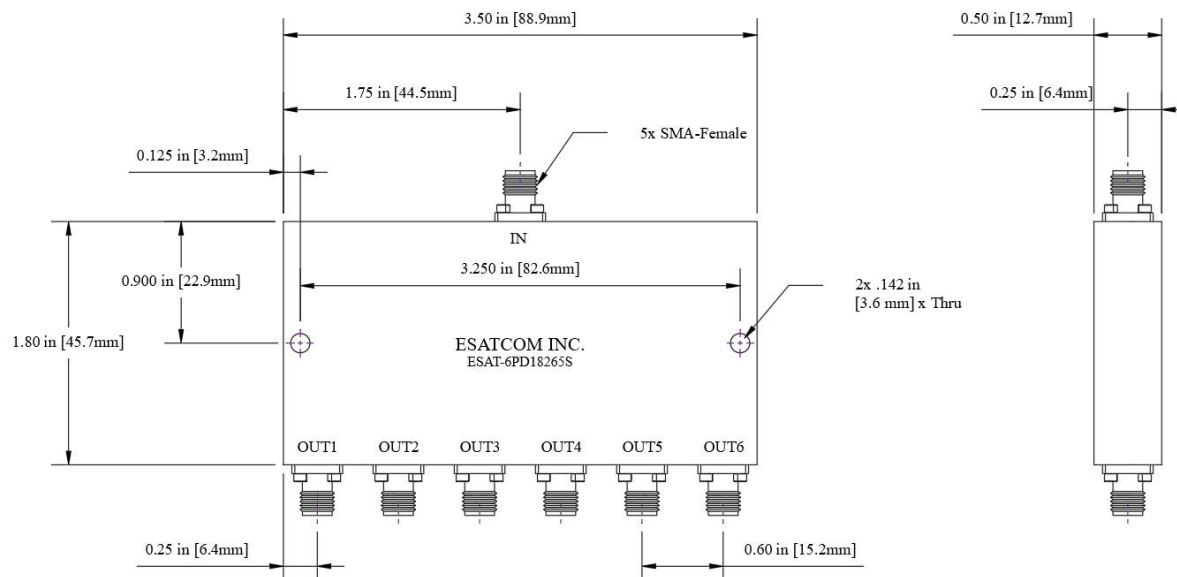
Typical Performance Data

Frequency (MHz)	Return Loss (dB)				Total Loss (dB)			Isolation (dB)		
	Port S	Port 2	Port 4	Port 6	S-2	S-4	S-6	1-2	1-4	1-6
14000	9.61	13.13	13.01	15.28	9.02	9.24	9.03	19.41	32.32	32.29
15000	21.77	22.42	25.17	20.61	8.25	8.39	8.44	21.91	32.63	32.58
16000	21.67	17.05	21.61	21.72	8.34	8.49	8.36	24.38	39.99	39.72
17000	21.11	18.08	19.63	27.29	8.27	8.51	8.38	30.67	36.09	35.74
18000	18.64	25.88	31.81	25.79	8.31	8.53	8.47	38.42	31.35	31.34
19000	24.59	31.60	33.32	21.02	8.27	8.52	8.46	29.27	33.60	33.57
20000	22.40	38.81	34.52	29.65	8.42	8.57	8.53	44.36	41.92	42.31
21000	16.45	22.53	21.78	34.69	8.59	8.90	8.67	23.56	34.75	34.59
22000	22.20	24.77	22.24	26.58	8.48	8.87	8.63	33.31	33.58	33.27
23000	25.81	22.61	20.28	19.26	8.65	8.94	8.77	32.22	37.25	36.91
24000	27.56	24.81	36.83	26.10	8.62	8.74	8.52	26.08	36.85	37.03
25000	20.13	22.38	19.36	20.41	8.80	9.19	8.88	32.21	37.20	36.45
26000	19.74	22.70	19.96	20.73	8.99	8.86	8.70	23.17	42.87	42.20
27000	10.22	12.71	17.21	16.29	9.25	9.39	9.04	25.26	38.33	37.40
28000	14.70	14.09	21.41	23.19	9.25	9.18	8.73	22.42	33.51	33.28
29000	15.63	16.17	19.93	22.60	9.02	9.13	8.69	21.27	35.11	34.28
30000	12.55	9.66	15.45	12.70	9.80	9.39	9.16	22.06	38.52	38.42

DC PASS TO ALL PORTS



Outline Dimensions



Outline drawing: OL-06-1826

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

Tolerances on 2-pl decimals: ± 0.03 . 3-pl decimals: ± 0.015 .

The information contained in this document is accurate to the best of our knowledge and representative of the product described herein at the date of publication. It may be necessary to make modifications to the product and/or documentation of the product. Esatcom Inc. reserves the right to make such changes as required without notice. Unless otherwise stated, all specifications and dimensions are nominal. Esatcom Inc. does not make any representation or warranty regarding the suitability of the product described herein for any particular purpose or application, and Esatcom Inc. does not assume any liability arising out of the use of any part of documentation. This document gives only a description of the product(s) and shall not form part of any contract. Please contact a Esatcom Inc. Applications Engineer for the most current specification drawing.

Reliability testing was performed as an internal requalification of the product to substantiate the published specifications, which were previously arrived at by calculation and/or similarity to existing products. The results of these tests are provided as a courtesy and shall not form part of a contract or warranty. While reliability tests may depict the product being tested beyond the published specification ratings for the purpose of stress testing the product, this does not imply that the product should be operating above the rated limits for any length of time. Specifications related to reliability (e.g., performance over temperature, power handling, DC current, HI-POT) are "designed to meet" and are not individually tested in production of commercially available products. Please contact a Esatcom Inc. Applications Engineer if specific reliability testing is needed on a particular product.