Esatcom Inc.
3628 Francis Lewis Blvd.
Flushing, NY 11358
www.esatcom.com
Tel: 718.799.0084
Email: sales@esatcom.com

Power Divider, 4-way, 1-26.5 GHz, SMA Female

ESAT-4PD01265S

Parameter	Low Band	Mid Band	High Band	Unit
Frequency Range	1000-8000	8000-18000	18000-26500	MHz
Impedance		50		Ω
Return Loss (Port S)	11.7	11.7	11.7	dB, min.
Return Loss (Port 1-2)	13.9	13.9	12.7	dB, min.
Insertion Loss above 6dB	1.6	2.5	3.2	dB, max.
Isolation	15	17	12	dB, min.
Amplitude Unbalance (±)[1]	0.3	0.4	0.5	dB, max.
Phase Unbalance (±)[1]	4	5	6	Degree, max.
Input Power (CW)[2]		10		W, max.
Combining Power (CW)[2]		0.075		W/port, max.
DC Current		0.100		A/port, max.

Connector Interface	SMA Female	RoHS Status[4]	RoHS3 Compliant
Operating Temperature[3]	-55 to +85 °C	REACH Status[4]	REACH Unaffected
Storage Temperature	-55 to +100 °C	Enclosure Material	Aluminum
Nominal Weight	212 g (7.50 oz)	Connectors Material	Stainless Steel
Operating Humidity	10-90% (non-condensing)	Contacts Material	Beryllium Copper, Gold Plated
Operating Environment	Indoor Use Only	Insulators Material	Virgin PTFE
HTSUS Code	8548.00.0000	Finish	Green Paint
ECCN	EAR99	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.

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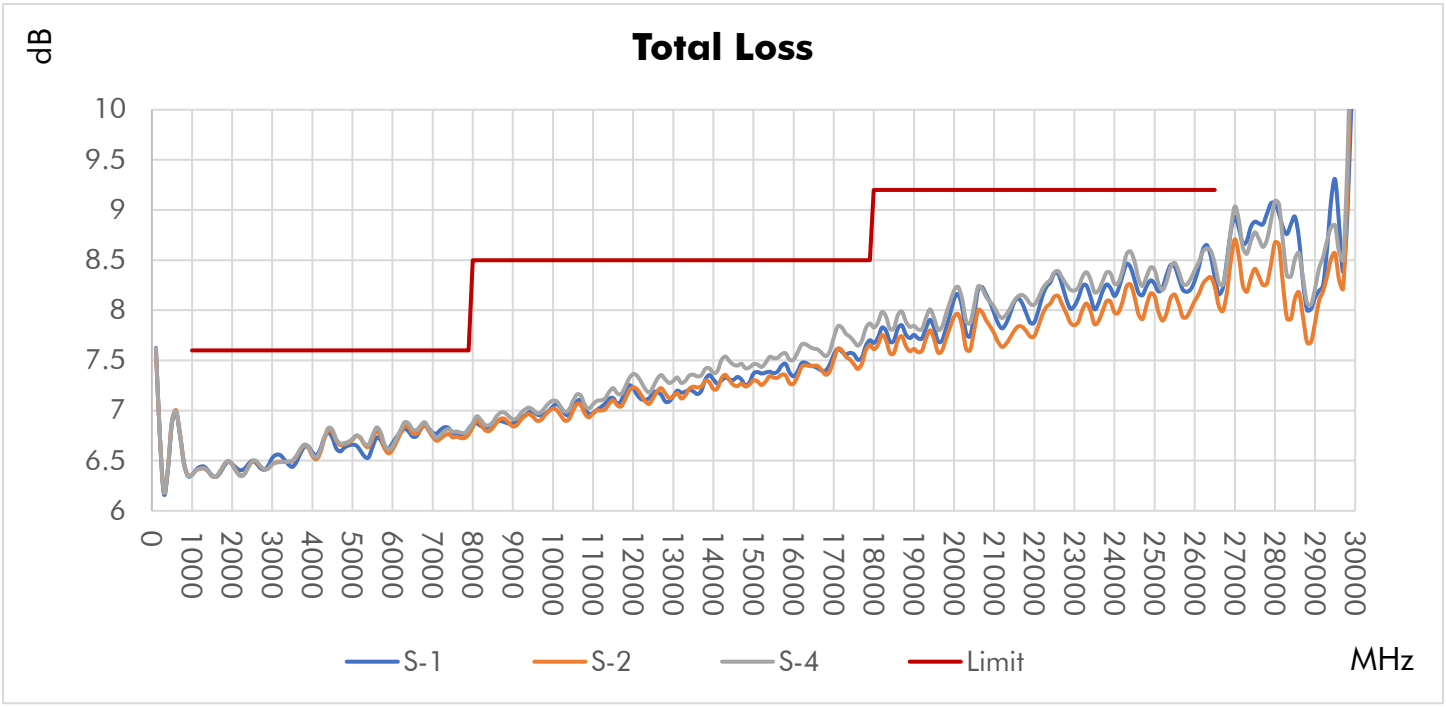
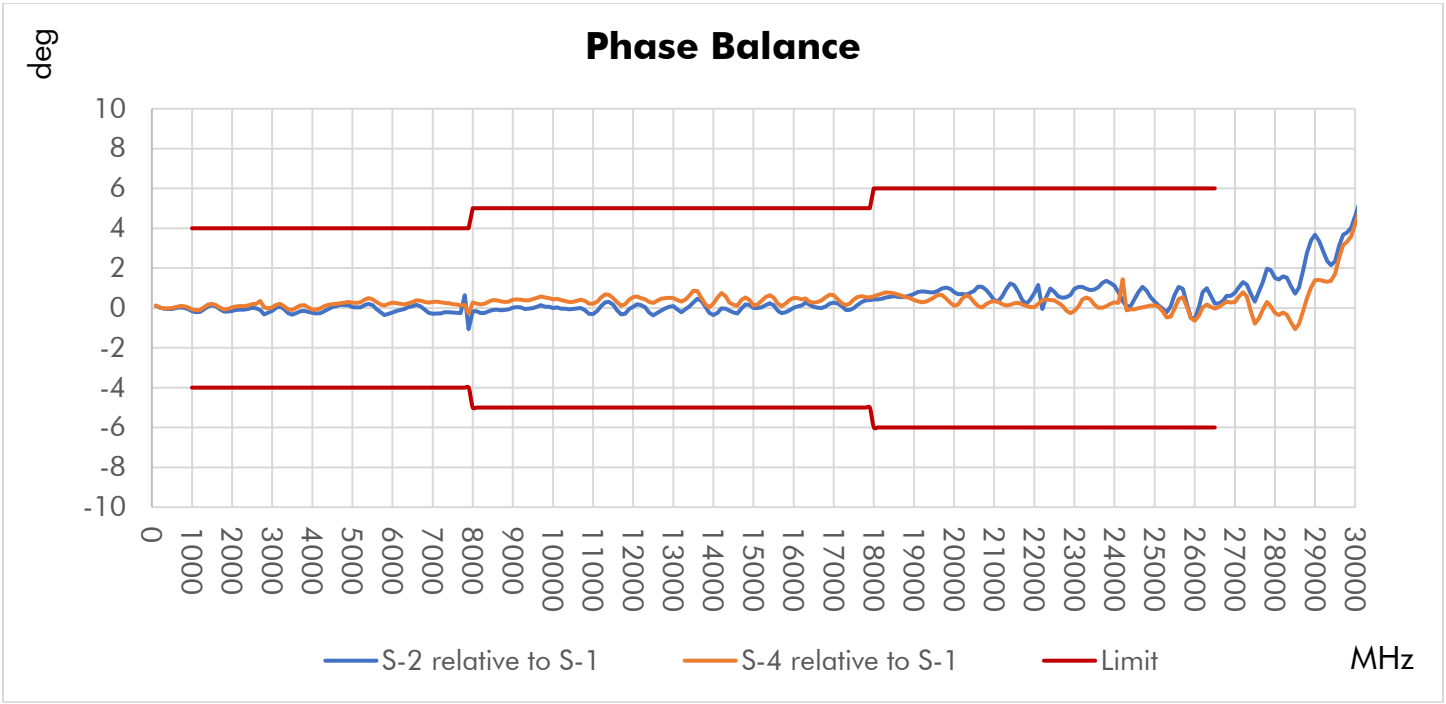
Typical Performance at +25 °C





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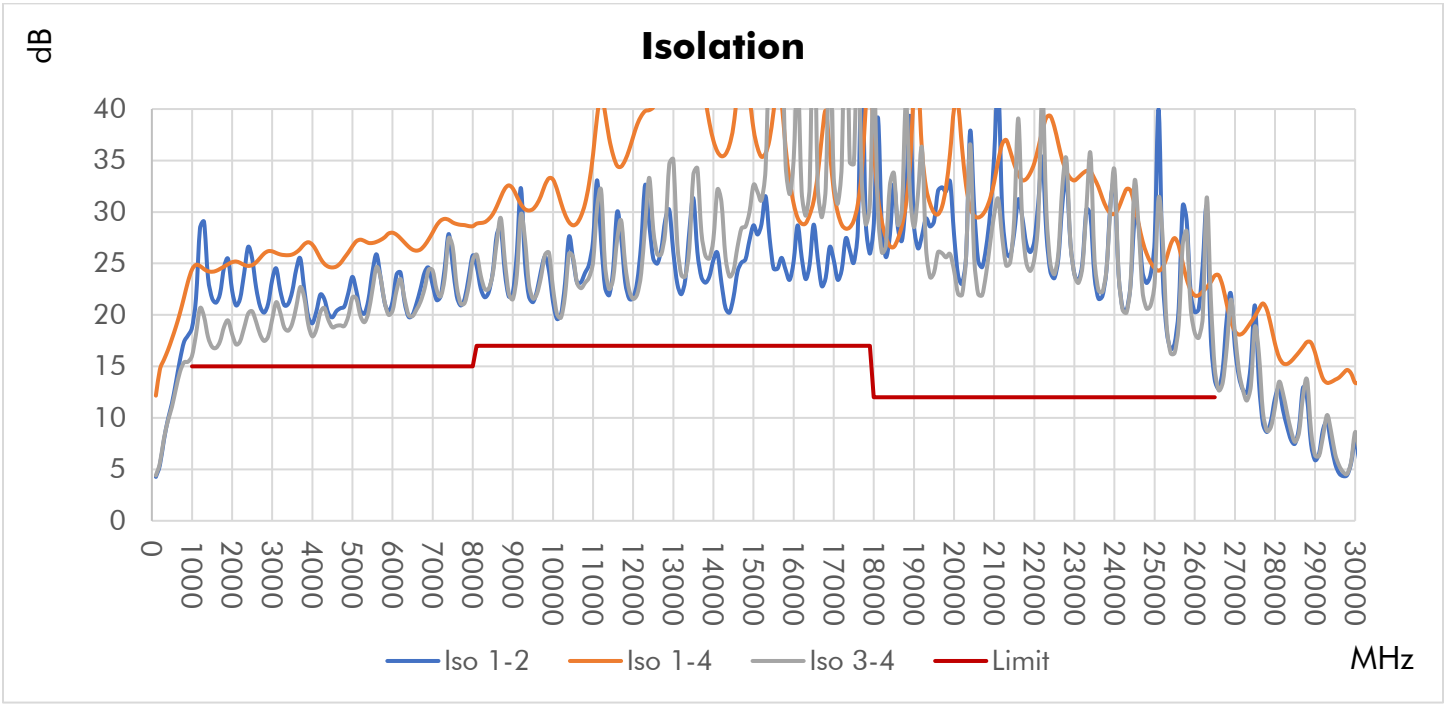

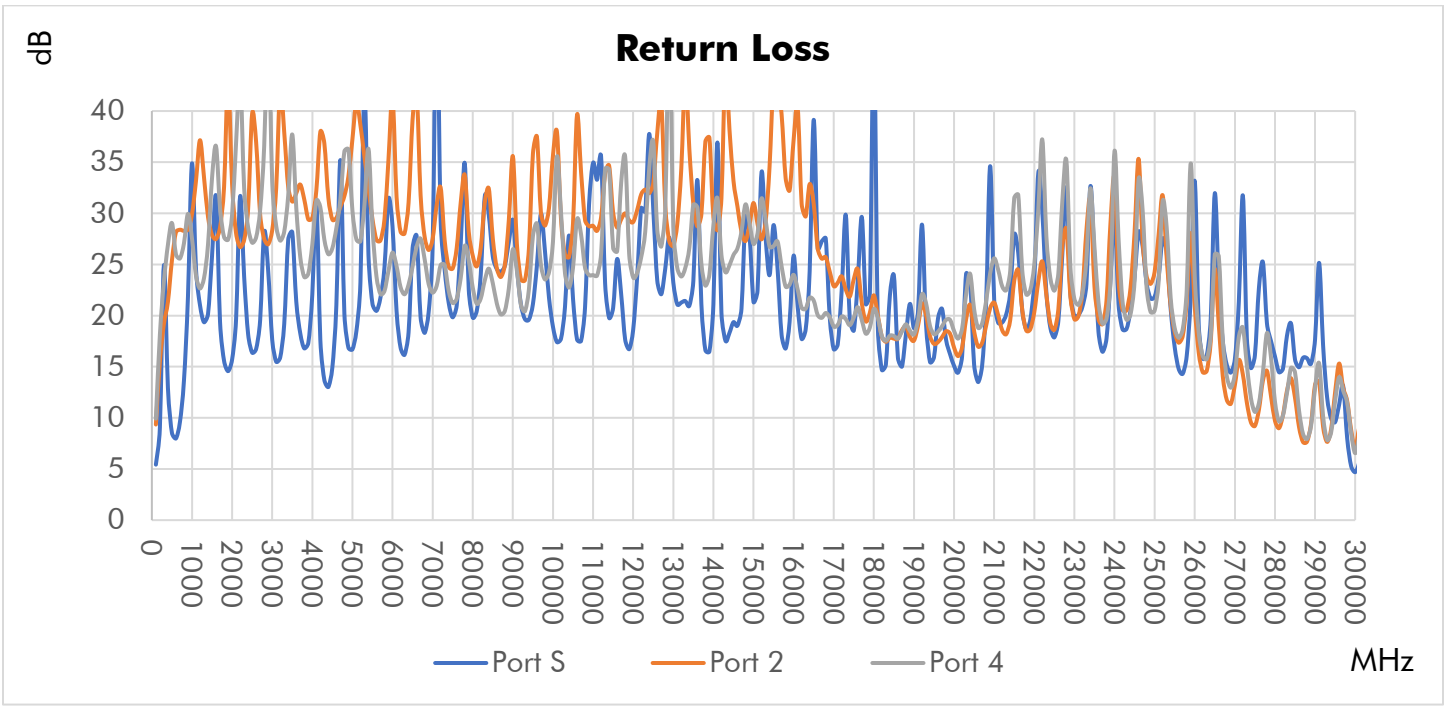

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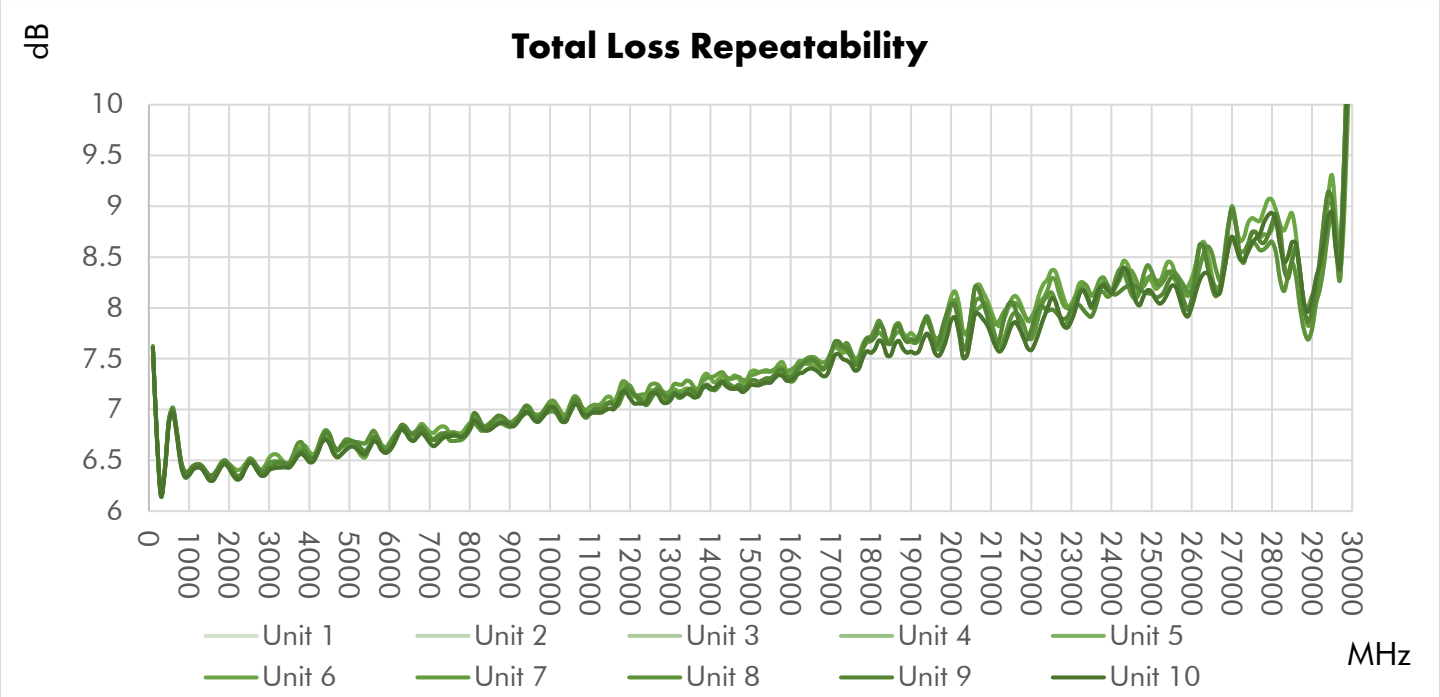
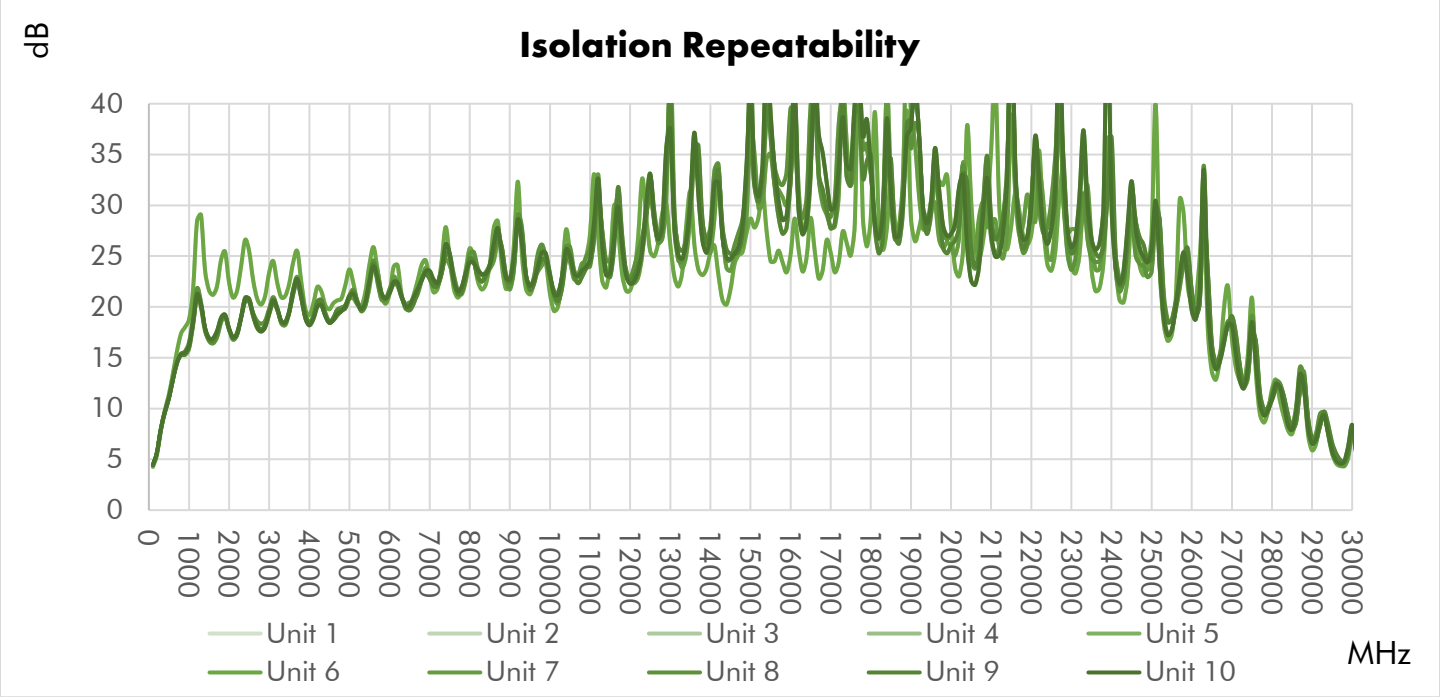
Repeatability in Production





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Typical Performance Data

Frequency (MHz)	Return Loss (dB)			Total Loss (dB)		Isolation (dB)	
	Port S	Port 1	Port 4	S-1	S-4	1-2	1-4
500	8.54	25.38	29.05	6.87	6.89	11.40	17.67
600	7.98	28.15	25.99	6.99	7.00	13.45	18.85
700	9.59	28.39	25.59	6.76	6.77	15.62	20.18
800	13.65	28.29	27.06	6.47	6.48	17.35	21.67
900	21.84	28.43	29.95	6.35	6.35	18.00	23.22
1000	34.88	29.91	27.54	6.36	6.36	18.76	24.40
2000	15.70	32.84	29.84	6.47	6.46	22.38	25.13
3000	17.65	28.34	33.11	6.53	6.46	23.40	26.18
4000	22.07	29.56	26.94	6.59	6.56	19.18	26.84
5000	16.69	37.23	30.28	6.66	6.72	23.70	26.67
6000	28.72	41.45	26.16	6.68	6.64	21.30	27.98
7000	26.65	27.49	22.24	6.78	6.77	22.91	28.00
8000	19.80	25.86	22.74	6.87	6.88	25.77	28.62
9000	29.34	35.59	26.47	6.87	6.91	22.16	32.28
10000	18.91	35.65	27.23	7.04	7.10	21.29	33.16
11000	34.93	28.78	23.96	6.98	7.06	27.22	35.59
12000	18.62	29.15	23.73	7.22	7.36	21.65	37.31
13000	23.24	26.81	28.66	7.14	7.30	26.13	57.64
14000	21.10	29.61	28.83	7.31	7.37	25.32	36.93
15000	21.33	31.01	27.01	7.37	7.46	28.71	38.07
16000	25.86	37.20	23.98	7.34	7.51	25.19	30.82
17000	16.70	22.89	18.93	7.56	7.73	25.31	32.05
18000	47.32	21.99	20.65	7.67	7.83	28.91	36.40
19000	18.75	17.56	18.16	7.75	7.84	28.74	41.52
20000	15.08	16.87	18.49	8.11	8.20	27.79	40.03
21000	21.56	21.27	25.60	7.97	8.03	35.45	32.90
22000	23.39	20.33	24.99	7.88	8.06	27.12	34.74
23000	19.95	19.65	21.61	8.04	8.20	23.99	33.06
24000	30.03	33.48	36.08	8.14	8.26	32.90	29.83
25000	21.84	24.26	20.49	8.26	8.40	27.13	24.55
26000	33.18	20.93	23.79	8.29	8.40	20.27	21.89
27000	15.71	13.19	14.25	8.93	9.04	16.93	18.43
28000	16.02	9.72	11.60	9.06	9.09	11.87	17.22
29000	17.65	13.25	12.89	8.12	8.22	5.88	16.34
30000	4.69	6.98	6.54	10.85	11.63	7.94	13.41

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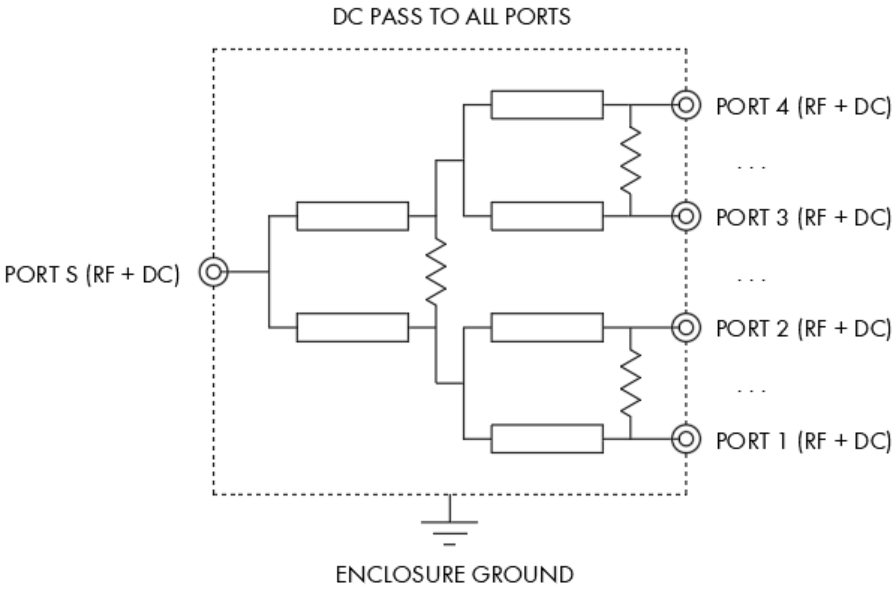
Simplified Electrical Schematic



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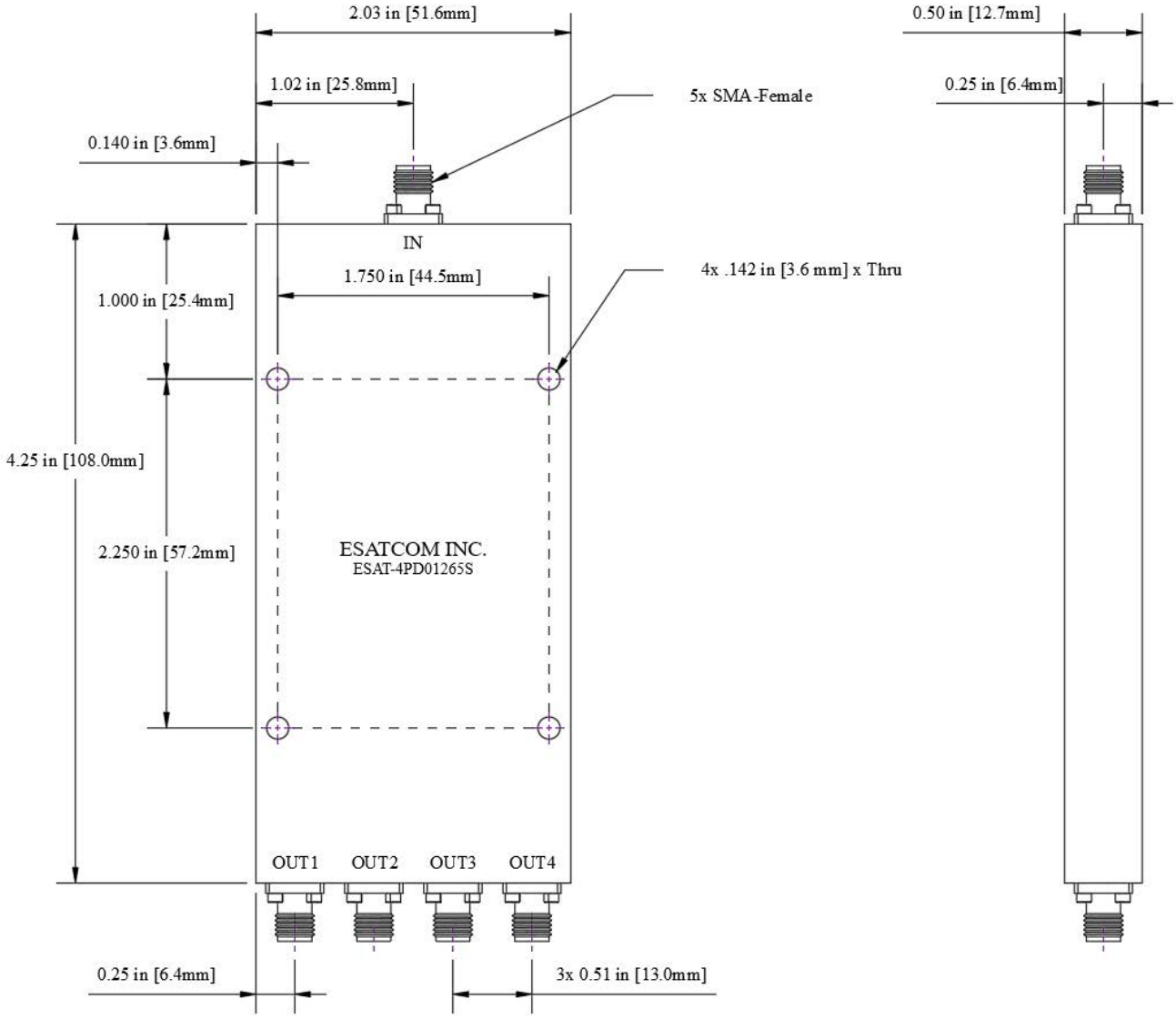
Outline Dimensions



Outline drawing: OL-04-0126
Dimensions are in inches, [mm] shown for convenience.
Tolerances on 2-pl decimals: ±.03. 3-pl decimals: ± .015.

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