

Power Divider, 4-way, 6-26.5 GHz, SMA Female

ESAT-4PD06265S



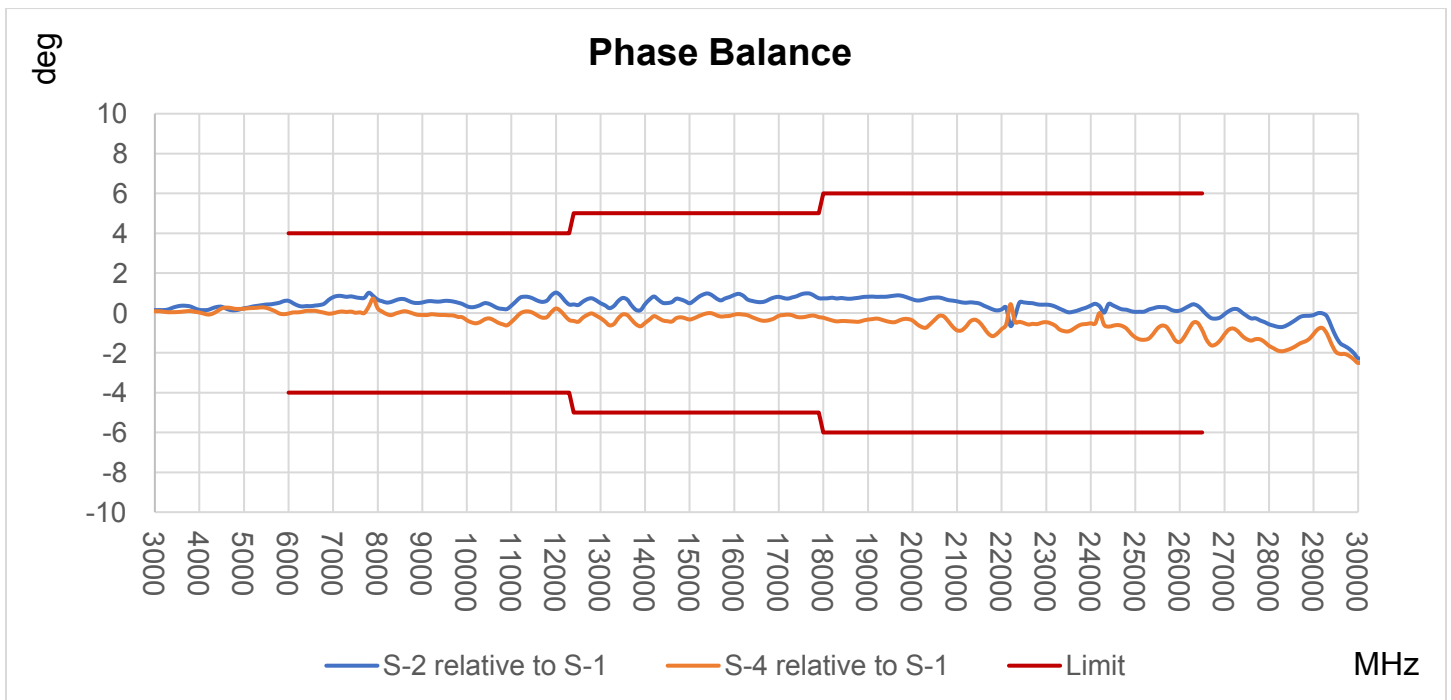
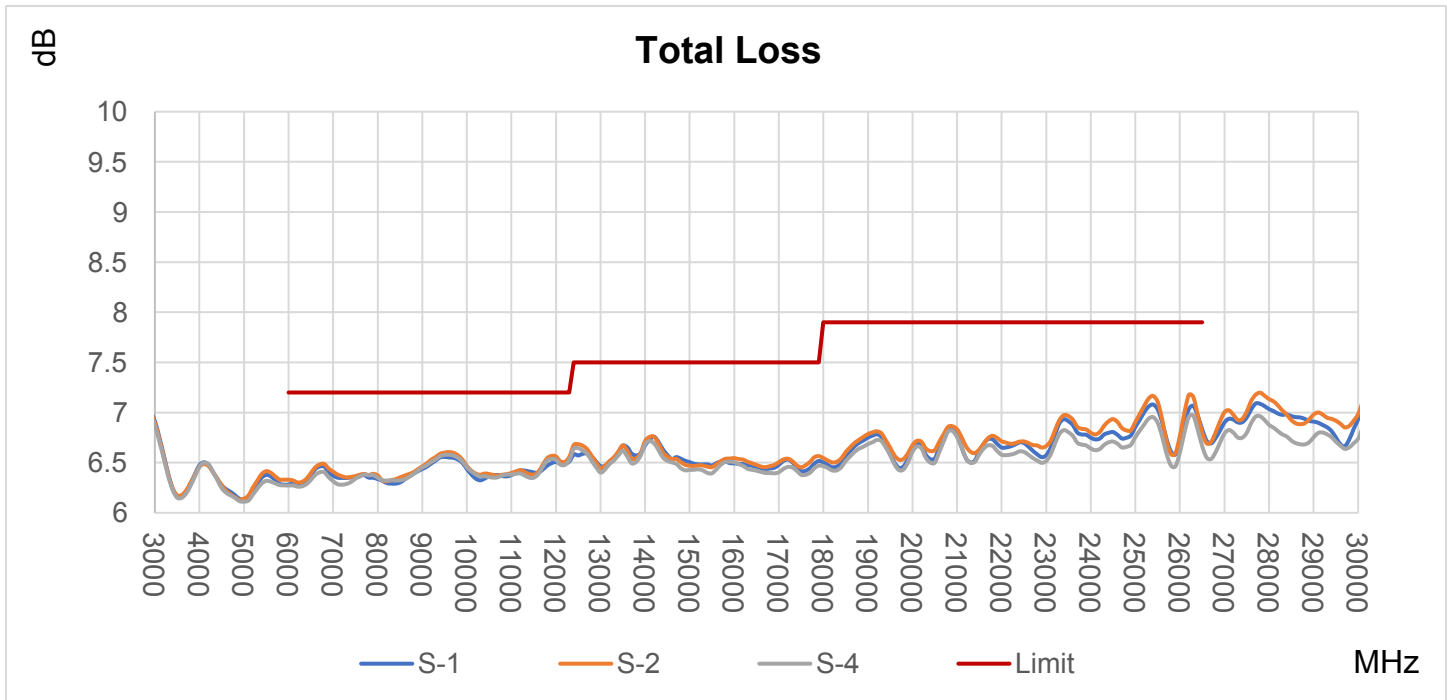
Parameter	Low Band	Mid Band	High Band	Unit
Frequency Range	6000-12400	12400-18000	18000-26500	MHz
Impedance	50			Ω
Return Loss (Port S)	11.7	10.0	10.0	dB, min.
Return Loss (Port 1-2)	16.0	14.9	12.6	dB, min.
Insertion Loss above 6dB	1.2	1.5	1.9	dB, max.
Isolation	16	16	16	dB, min.
Amplitude Unbalance ($\pm$) ¹	0.3	0.3	0.4	dB, max.
Phase Unbalance ($\pm$) ¹	4	5	6	Degree, max.
Input Power (CW) ²	10			W, max.

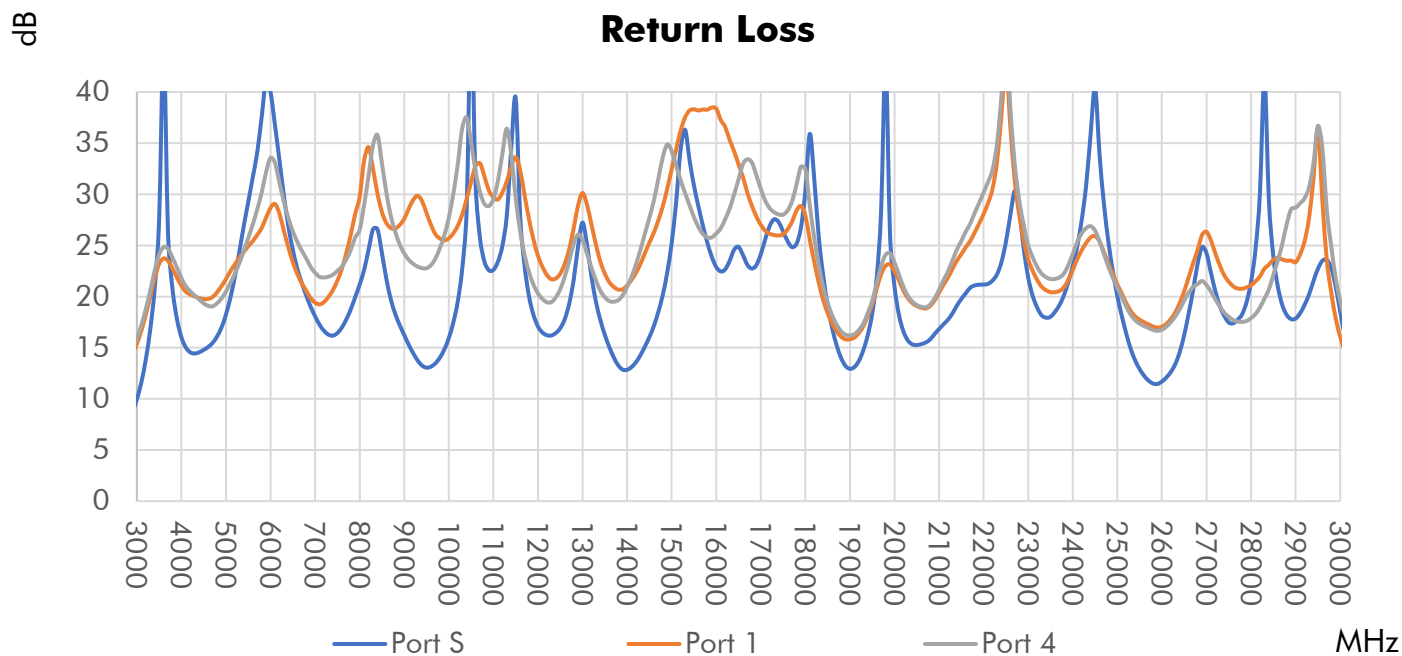
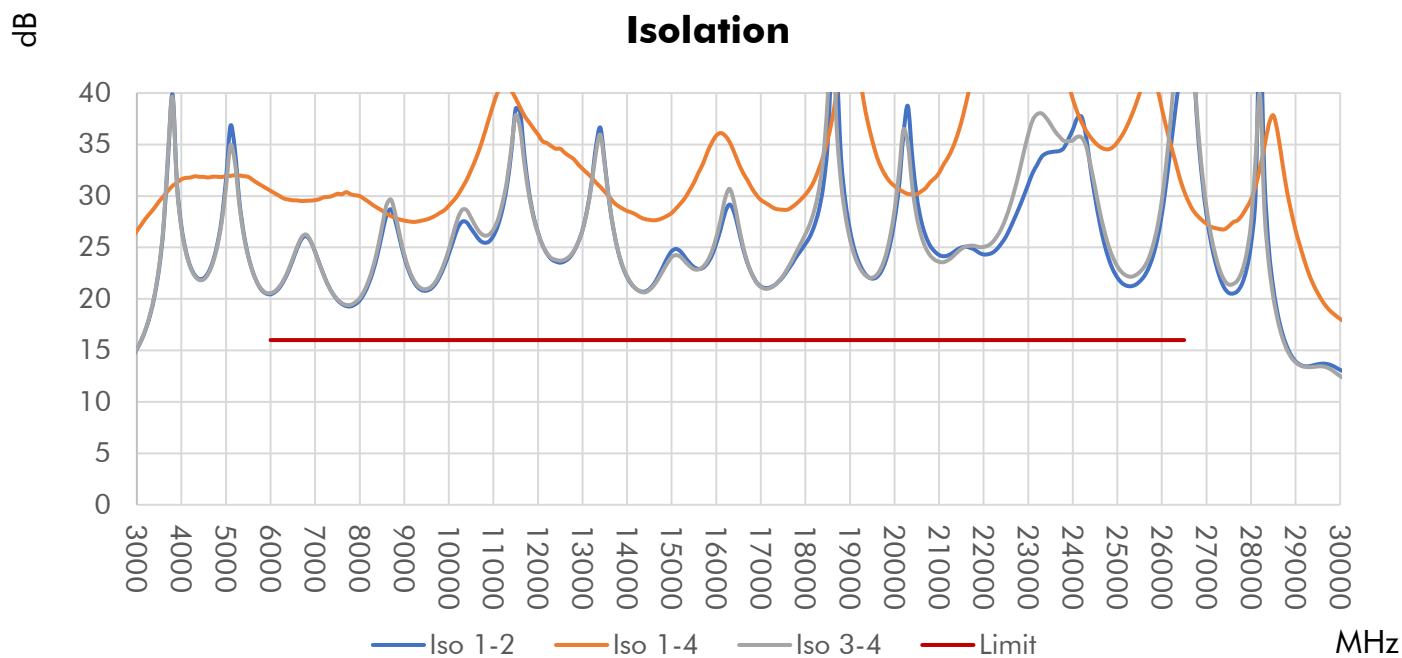
Connector Interface	SMA Female
Operating Temperature ³	-55 to +85 °C
Storage Temperature	-55 to +100 °C
Nominal Weight	83.0 g (2.93 oz)
Operating Humidity	10-90% (non-condensing)
Operating Environment	Indoor Use Only
HTSUS Code	8548.00.0000
ECCN	EAR99

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

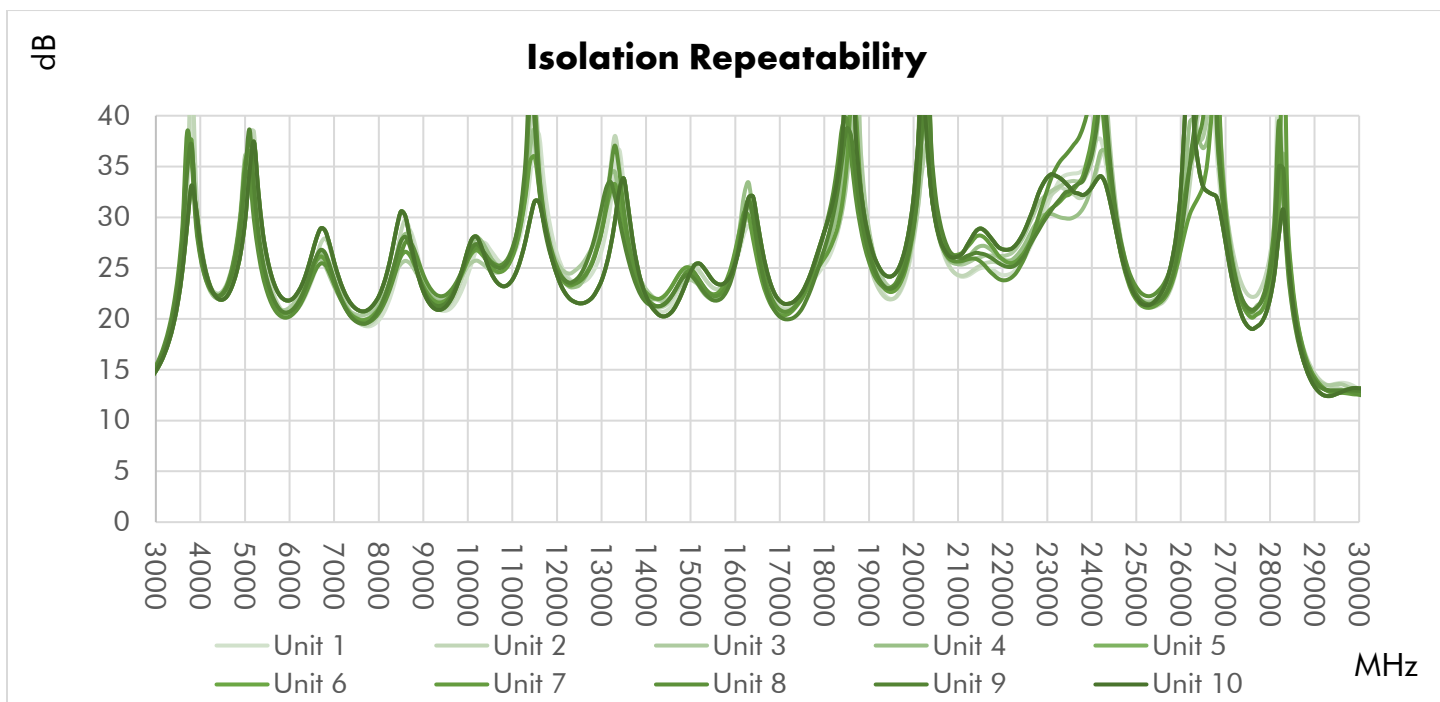
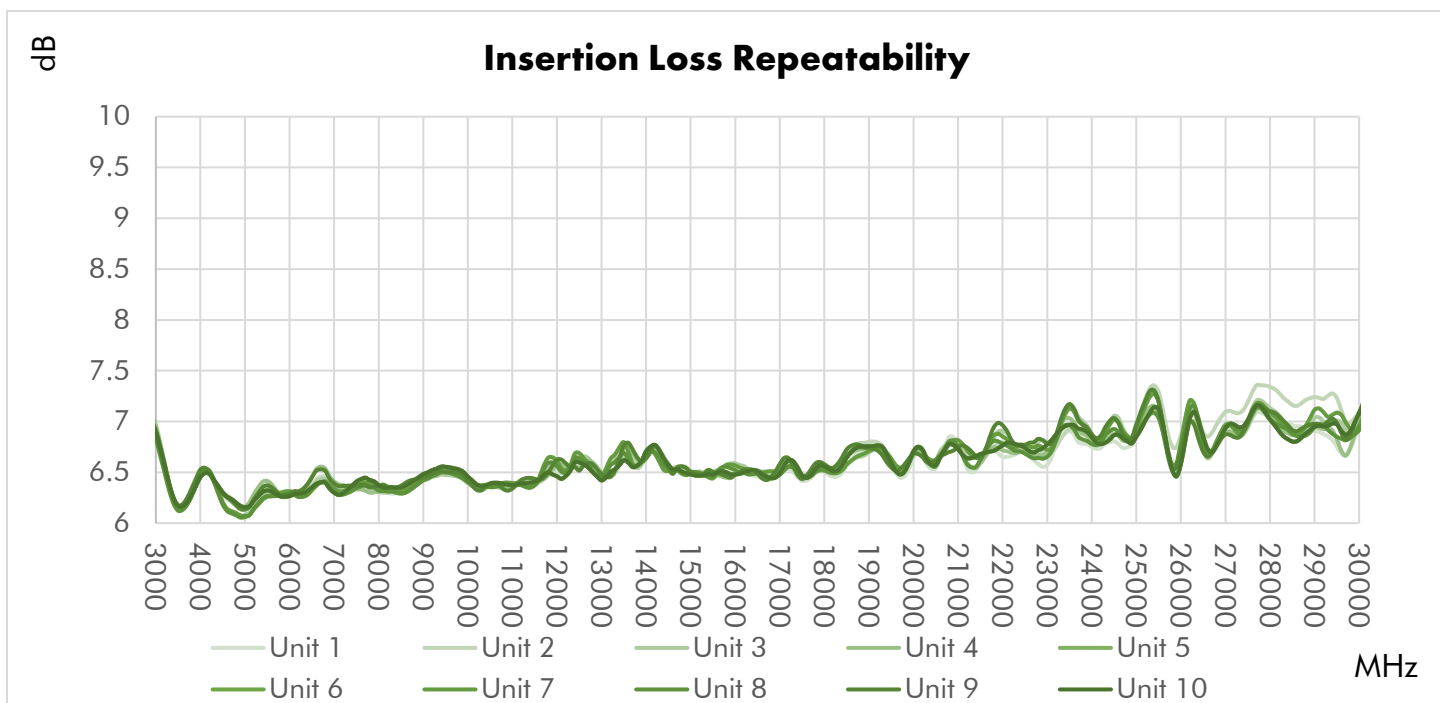
1. With reference to average.
2. All output ports should be terminated in a 50-ohm load with 1.2:1 max VSWR.
3. Electrical specifications are tested at +25 °C.
4. To the best of our knowledge at the time of publication.

Typical Performance at +25 °C





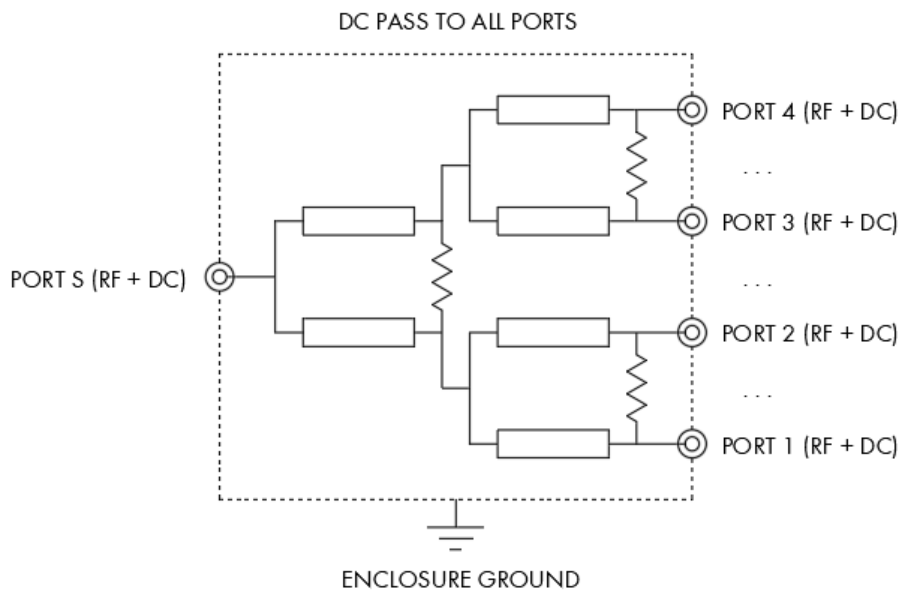
Repeatability in Production



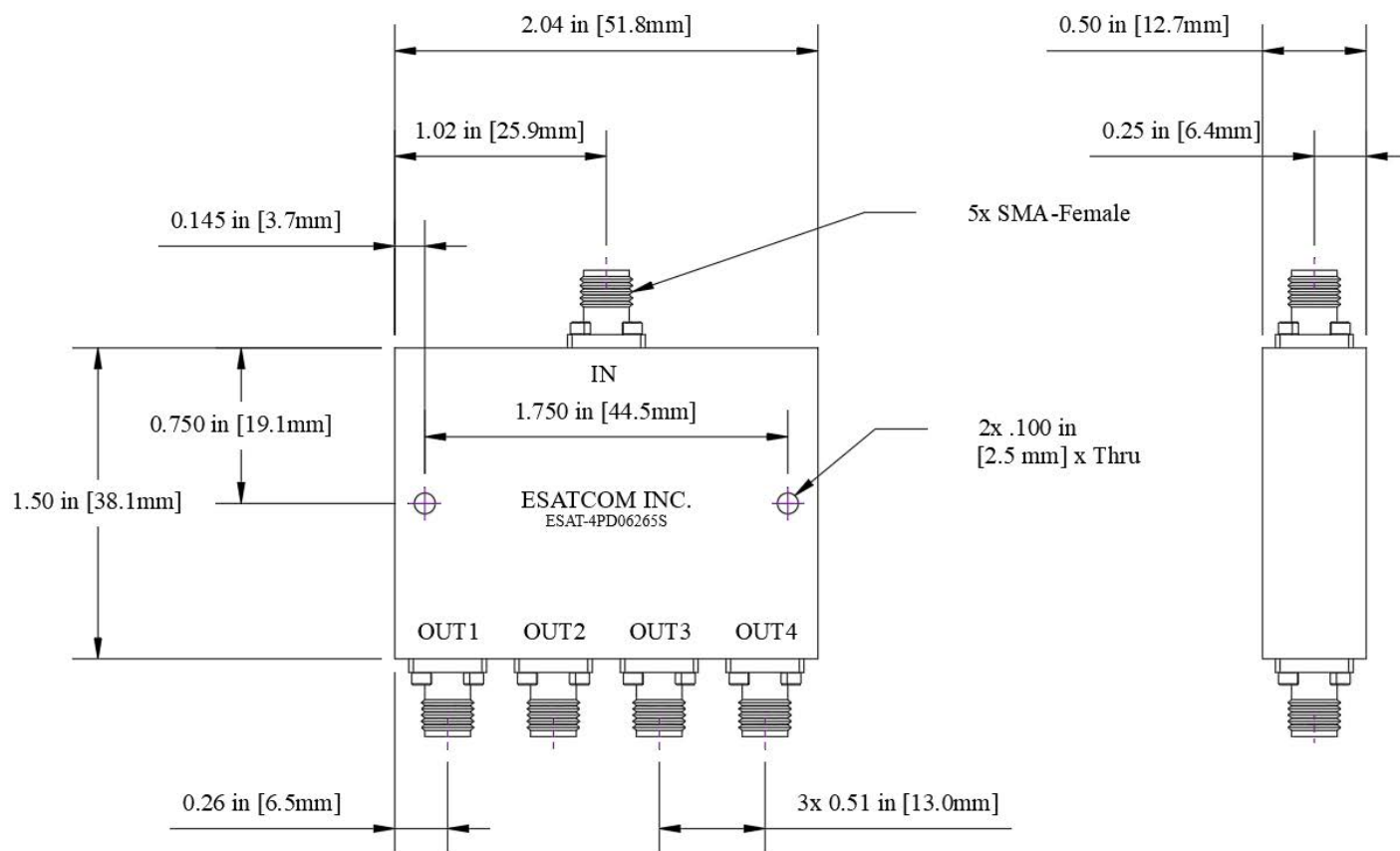
Typical Performance Data

Frequency (MHz)	Return Loss (dB)			Total Loss (dB)		Isolation (dB)	
	Port S	Port 1	Port 4	S-1	S-4	1-2	1-4
2000	6.61	11.93	12.02	7.33	7.33	15.67	18.41
3000	9.95	15.38	15.90	6.92	6.87	15.13	26.60
4000	16.02	21.07	21.81	6.47	6.46	27.03	31.62
5000	18.26	21.71	20.49	6.13	6.11	31.59	31.93
6000	39.98	28.69	33.57	6.28	6.27	20.45	30.51
7000	18.07	19.41	22.33	6.37	6.32	24.56	29.60
8000	21.19	29.75	26.54	6.34	6.35	19.86	30.00
9000	16.23	27.61	24.22	6.44	6.45	24.05	27.61
10000	15.95	25.69	27.73	6.44	6.45	24.37	29.05
11000	22.61	29.71	29.53	6.38	6.38	26.12	38.90
12000	17.08	24.00	20.31	6.51	6.53	26.46	35.98
13000	27.24	30.13	25.56	6.46	6.40	26.70	32.64
14000	12.84	21.09	20.94	6.67	6.69	22.12	28.54
15000	25.24	32.45	34.23	6.51	6.43	24.64	28.35
16000	22.89	38.39	26.17	6.49	6.50	25.37	35.86
17000	24.14	27.02	30.53	6.48	6.40	21.22	29.62
18000	30.34	27.91	32.50	6.50	6.47	25.35	30.14
19000	12.94	15.83	16.20	6.75	6.69	26.69	62.86
20000	20.99	22.48	23.32	6.65	6.61	27.61	30.97
21000	16.83	20.38	20.68	6.77	6.76	24.27	32.24
22000	21.18	28.08	30.19	6.65	6.58	24.32	51.25
23000	21.87	23.65	25.01	6.57	6.52	31.13	46.29
24000	22.98	22.59	24.16	6.75	6.64	36.43	39.43
25000	20.06	21.20	20.85	6.86	6.76	22.08	35.22
26000	11.70	17.05	16.75	6.69	6.60	28.23	38.49
27000	24.25	26.34	21.14	6.90	6.79	28.21	27.31
28000	21.44	21.13	17.90	7.03	6.88	25.29	29.66
29000	17.85	23.37	28.69	6.91	6.75	13.94	26.66
30000	18.58	16.08	19.64	6.94	6.74	13.11	18.06

Simplified Electrical Schematic



Outline Dimensions



Outline drawing: OL-04-0626

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

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

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