Esatcom Inc.
3628 Francis Lewis Blvd.
Flushing, NY 11358
www.esatcom.com
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Power Divider, 16-way, 0.5-6 GHz, SMA Female, Front Mount — ESAT-16PD00506S1

Description

ESAT-16PD00506S1 is a 16-way power splitter covering the continuous bandwidth of 500 MHz to 6 GHz used in commercial test and measurement applications. The device is RoHS compliant. The aluminum enclosure measures 9.50 x 9.00 x 0.55 inches. Gold-plated SMA connectors provide excellent ground conductivity. The single-sided connector configuration is useful in 19-inch rack mount applications where the input and outputs need to be readily accessible from the same side of the panel.

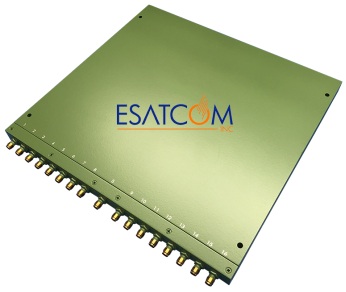

Photo is representative.

Specification		Min.	Typ.	Max.	Units
Frequency		500	--	6000	MHz
Impedance		--	50	--	Ohm
Return Loss (Port S)		9.5	17.2	--	dB
Return Loss (Port 1-16)		16	20	--	dB
Insertion Loss (above 12.04 dB)		--	2.0	4.5	dB
Isolation	500-600MHz 600-6000MHz	16 18	18 24	--	dB
Amplitude Balance		--	0.5	1.2	dB
Phase Balance		--	4	16	Degrees
Input Power (CW)[1]		--	--	30	Watts

Mechanical

Connector Interface	SMA-Female
Operating Temperature[2]	-55 to +85 °C
Storage Temperature	-55 to +100 °C
Weight Estimate	3.4 lb. (1.54 kg)
Humidity	10-90% non-condensing
Environment	Indoors Use Only

Materials

RoHS Compliant[3]	
Enclosure	Aluminum
Connectors	Brass, Gold Plated
Contacts	Be Cu, Gold Plated
Insulators	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.

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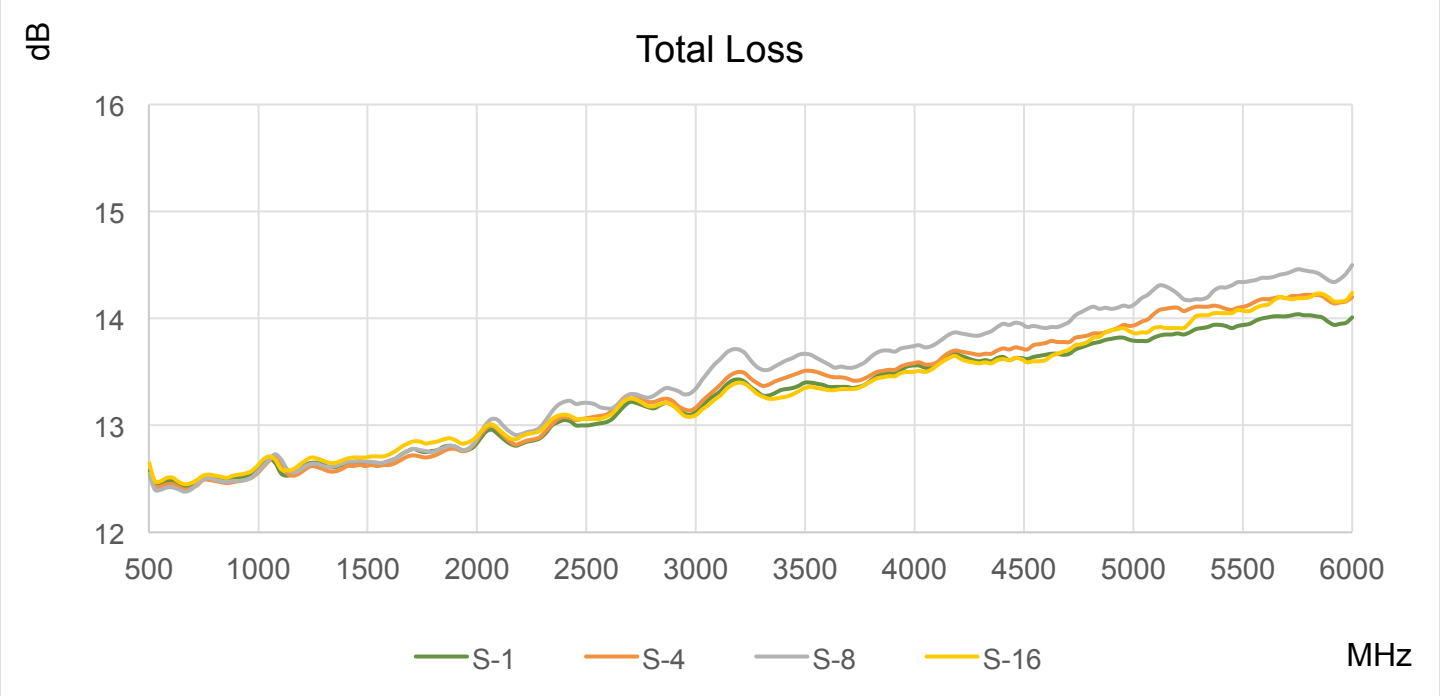
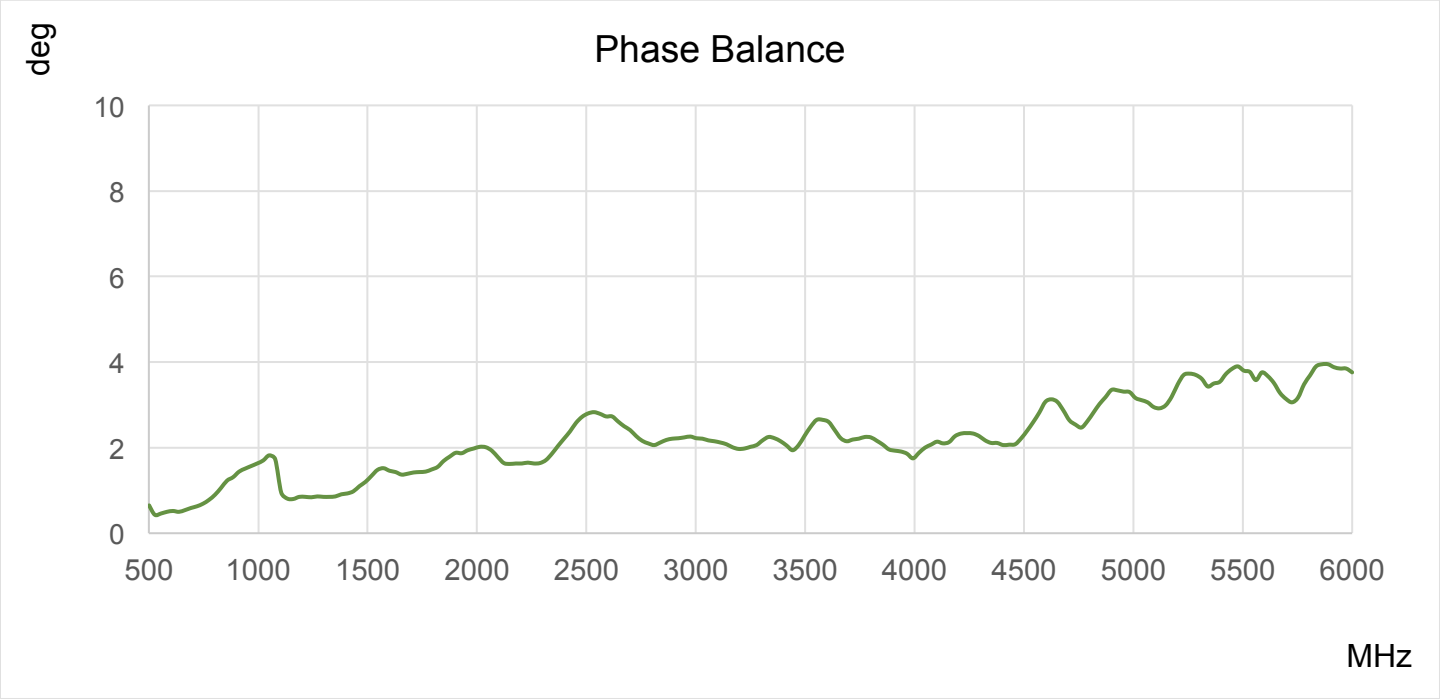
Typical Performance at +25 °C





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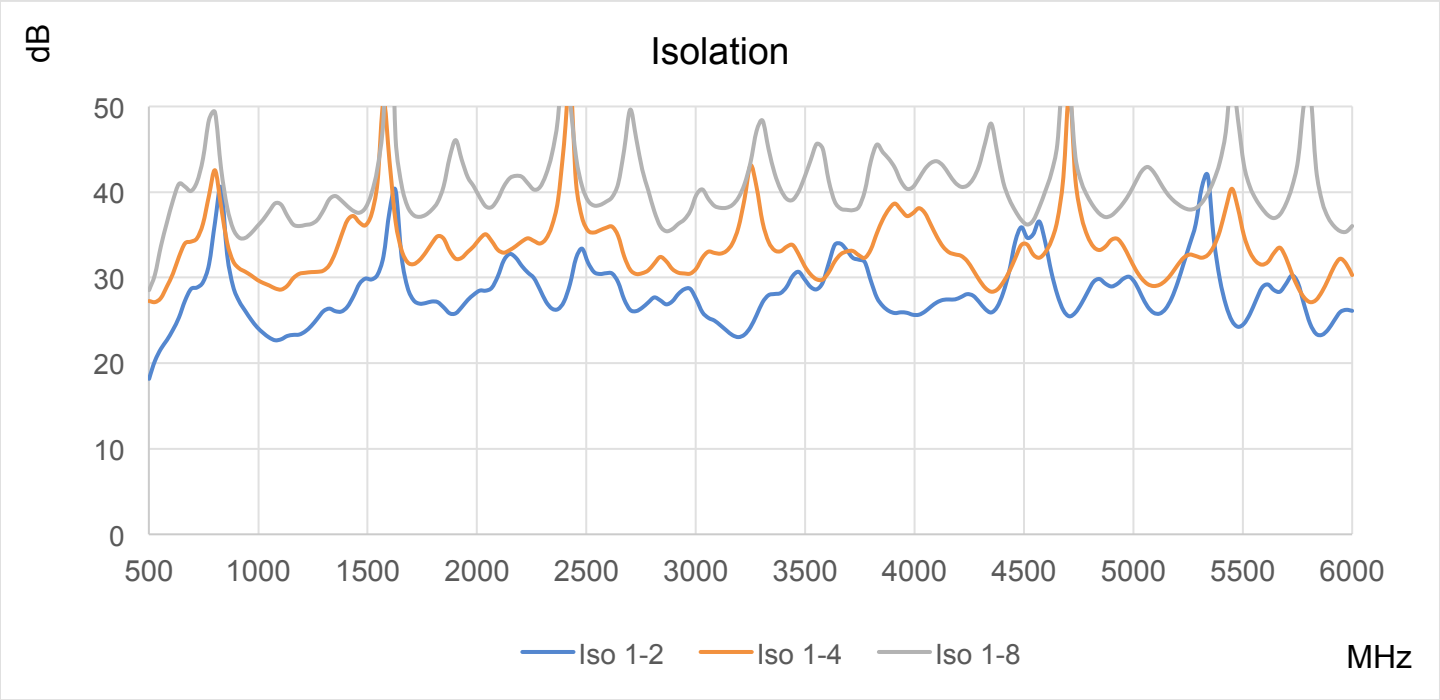

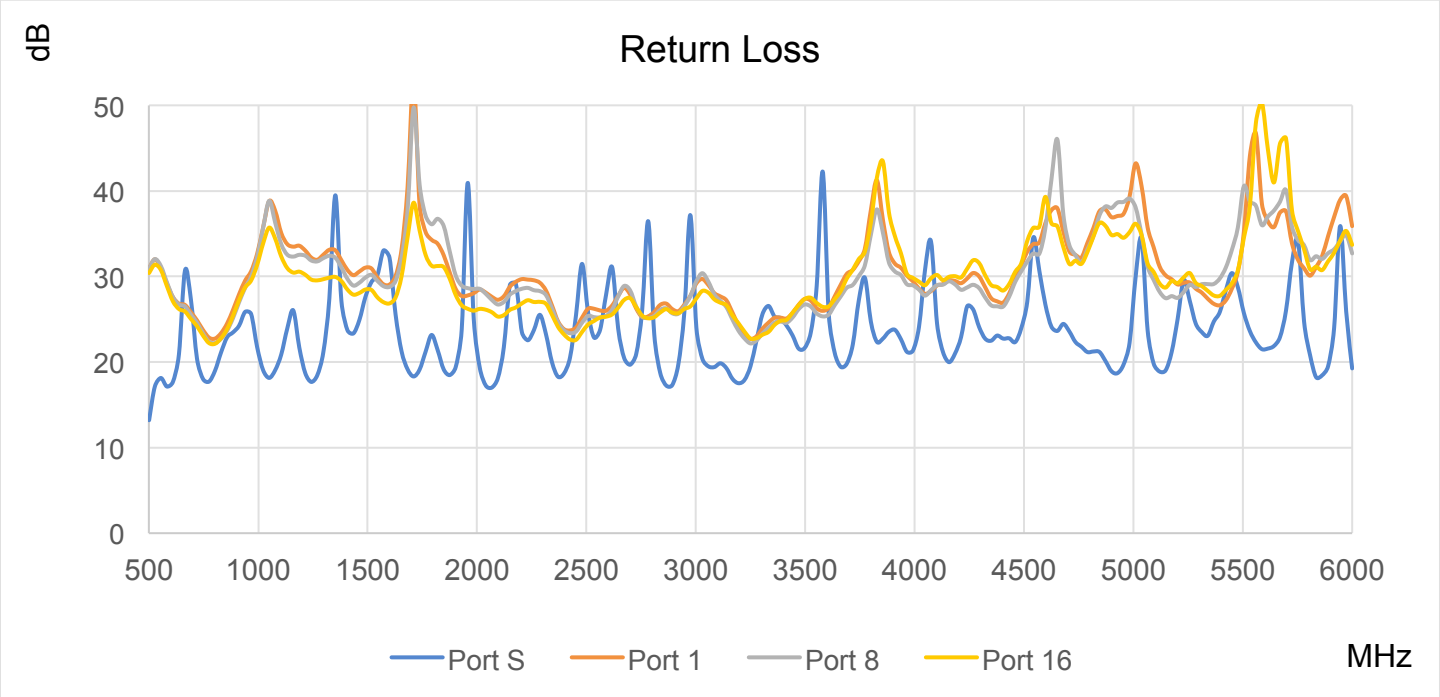

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Typical Performance Data

Frequency (MHz)	Return Loss (dB)				Total Loss (dB)			Isolation (dB)		
	Port S	Port 1	Port 8	Port 16	S-1	S-8	S-16	1-2	1-4	1-8
500	13.2	31.0	31.0	30.4	12.58	12.55	12.65	18.2	27.3	28.5
610	17.7	27.6	27.6	27.1	12.48	12.42	12.51	23.9	30.5	39.0
720	20.4	24.9	24.6	24.2	12.47	12.45	12.49	28.9	34.6	41.2
830	21.1	23.4	22.7	22.8	12.49	12.48	12.52	40.6	38.3	42.8
940	25.9	29.5	28.7	28.7	12.52	12.49	12.55	26.1	30.7	34.6
995	21.7	32.7	32.3	31.4	12.60	12.56	12.62	24.2	29.8	36.0
1490	27.6	31.0	29.9	28.5	12.64	12.66	12.70	29.9	36.1	38.2
1985	25.0	28.1	28.5	26.0	12.80	12.83	12.87	28.0	33.7	40.7
2480	31.5	25.2	24.6	23.5	13.00	13.21	13.06	33.4	37.0	40.7
3003	24.0	29.2	29.5	27.5	13.13	13.35	13.10	27.5	31.1	39.7
3498	21.7	27.4	26.7	27.4	13.40	13.67	13.35	29.8	31.4	41.8
3993	21.4	29.4	29.0	29.8	13.56	13.74	13.50	25.7	37.5	40.6
4515	27.1	32.9	31.8	34.2	13.62	13.92	13.59	34.7	33.9	36.2
5010	29.9	43.2	38.1	36.2	13.79	14.14	13.86	29.3	31.0	41.2
5505	25.7	35.2	40.6	34.5	13.94	14.34	14.07	24.6	35.0	43.2
6000	19.3	35.9	32.7	33.7	14.01	14.50	14.24	26.1	30.3	36.0

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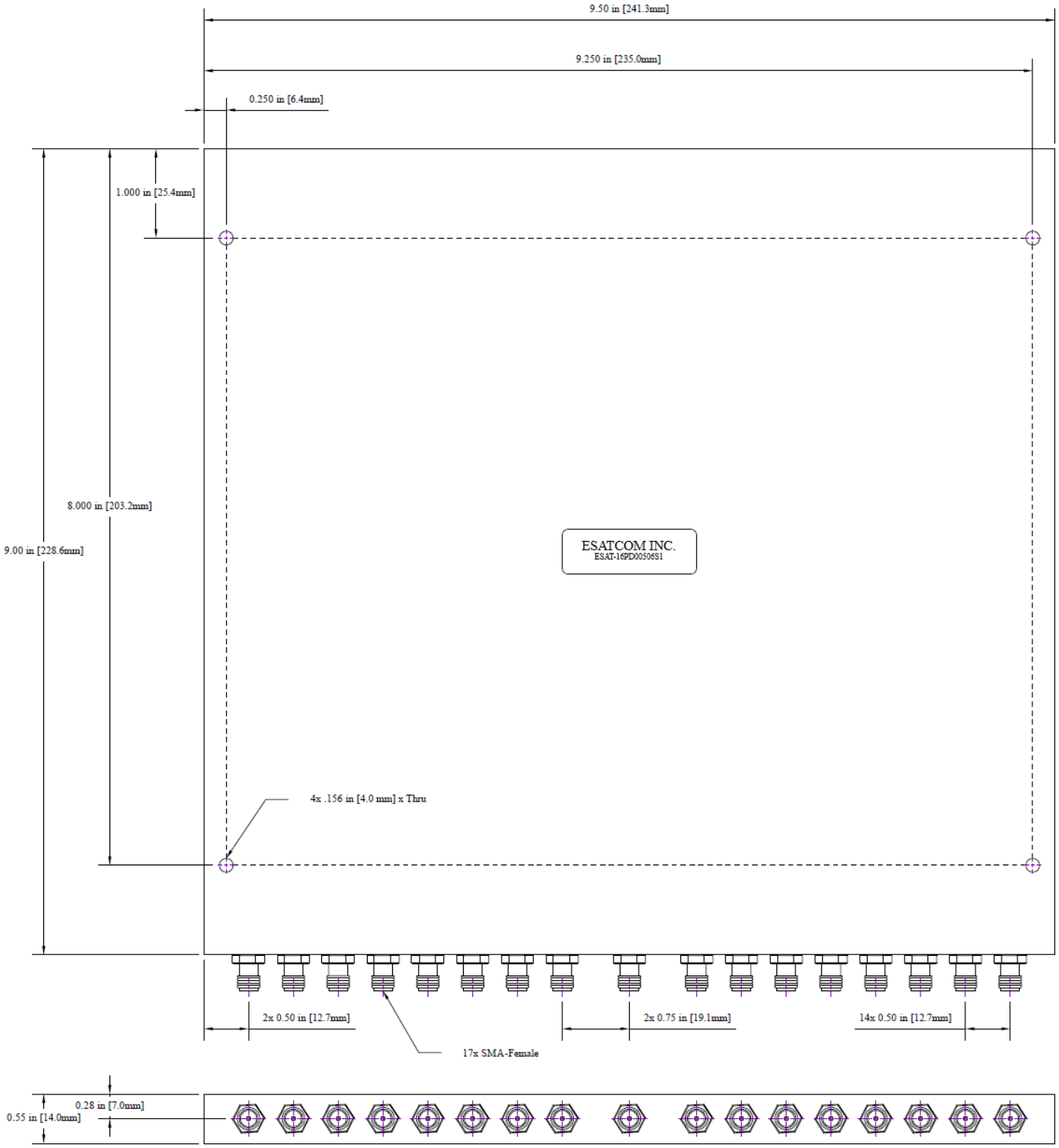
Outline Dimensions



Outline drawing: OL-16002

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