

Power Divider, 4-way, 0.6-7.4 GHz, SMA Female, Front Mount

ESAT-4PD006074S1

Description

ESAT-4PD006074S1 is a 4-way power splitter covering a continuous bandwidth of 600 MHz to 7.4 GHz in an enclosure measuring 3.48 x 3.23 x 0.55 inches. The configuration is unique in that the input and output are on the same side, which allows for front panel mounting in rack systems, and internally where space may be limited. The device is RoHS compliant and is assembled and tested in USA. Especially useful for extended Wi-Fi 7.125GHz Wi-Max testing.



Photo is representative.

Specifications	Min.	Typ.	Max.	Units
Frequency	600	--	7400	MHz
Impedance	--	50	--	Ohm
Return Loss (Port S)	11	17	--	dB
Return Loss (Ports 1-4)	13	19	--	dB
Insertion Loss (above 6.02dB)	--	1.7	2.4	dB
Isolation	18	20	--	dB
Amplitude Balance	--	0.2	0.6	dB
Phase Balance	--	2.5	9.0	Degrees
Input Power (CW) ¹	--	--	30	Watts (CW)

Mechanical

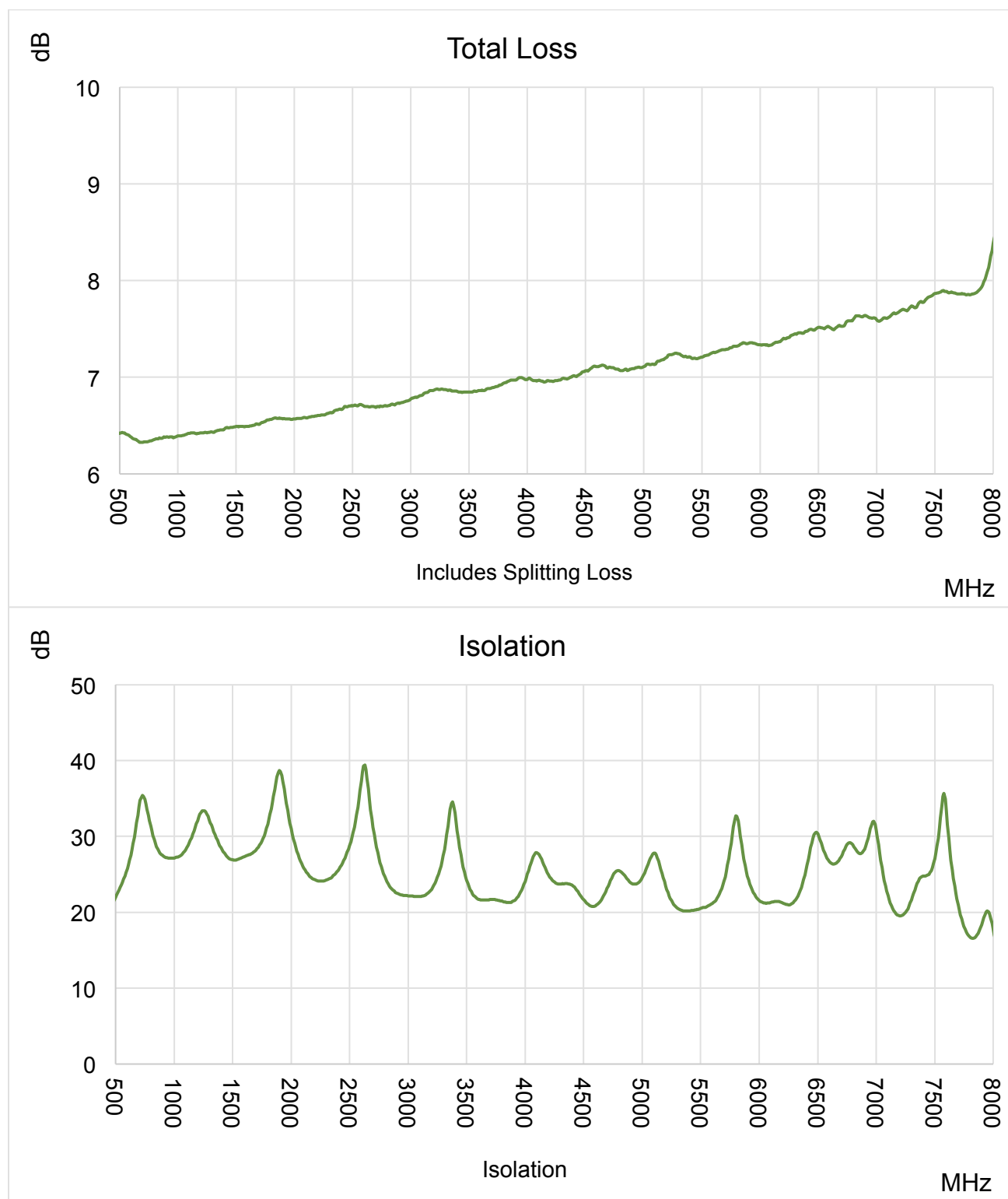
Connector Interface	SMA-Female
Operating Temperature ²	-40 to +85 °C
Storage Temperature	-55 to +100 °C
Weight Estimate	6 oz (170 g)
Humidity	10-90% non-condensing
Environment	Indoors Use Only

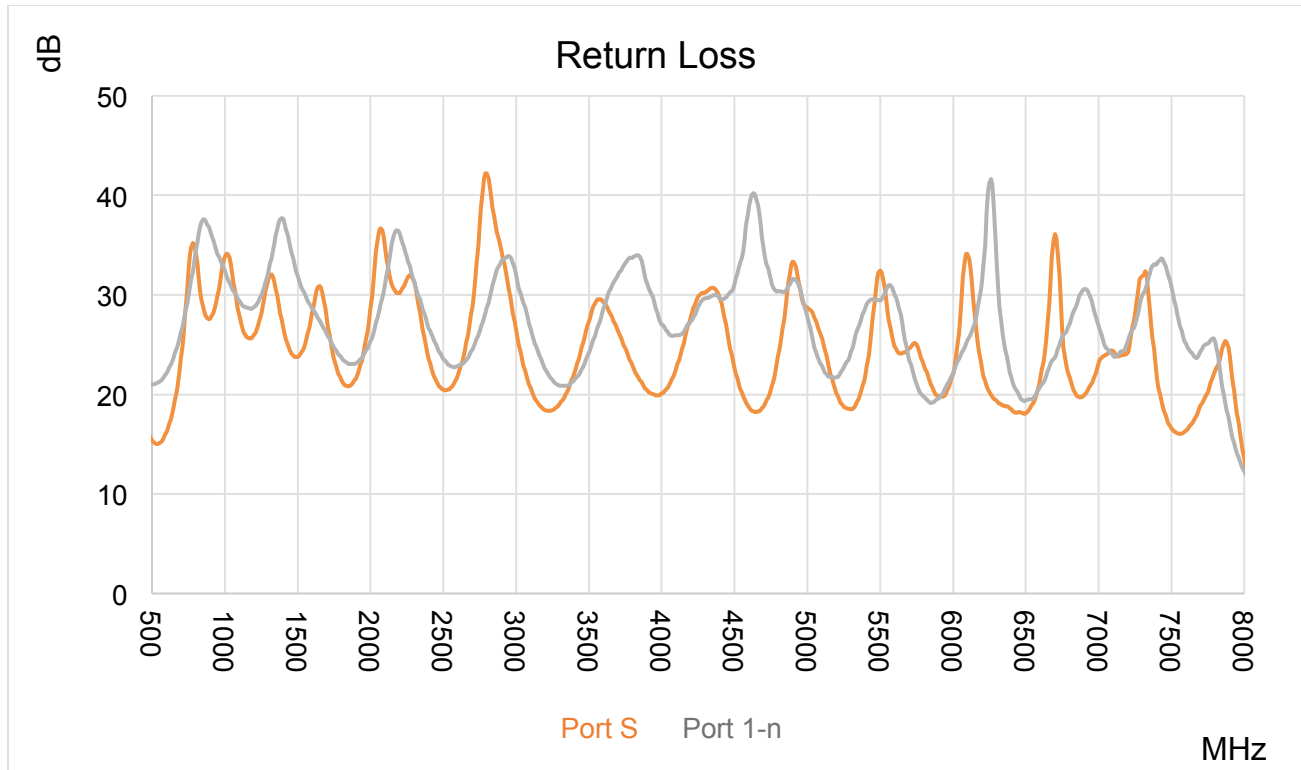
Materials

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 specifications at +25 °C only.
3. To the best of our knowledge at the time of publication.

Typical Performance at +25 °C

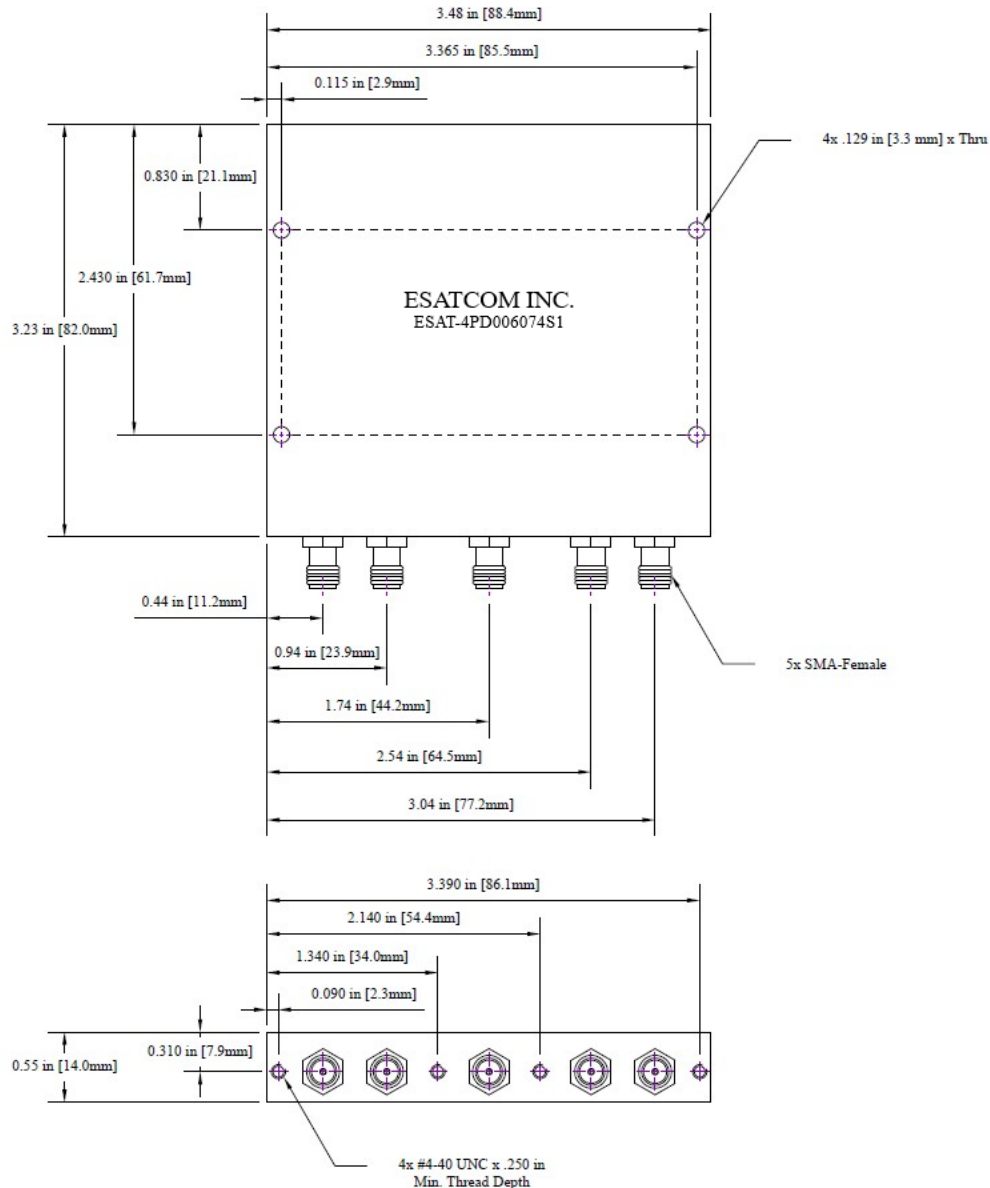




Typical Performance Data

Frequency (MHz)	Total Loss (dB)		Amplitude Unbalance (dB)	Isolation (dB)	Phase Unbalance (deg.)	Return Loss (dB)		
	S-1	S-4				Port S	Port 1	Port 4
500	6.4	6.4	0.02	22.1	0.0	14.9	21.0	14.9
700	6.3	6.4	0.01	34.5	0.3	27.8	27.7	27.9
900	6.4	6.4	0.01	27.5	0.2	28.3	35.1	28.3
1100	6.4	6.4	0.02	28.3	0.1	26.1	28.8	26.1
1300	6.4	6.5	0.02	32.0	0.2	32.6	34.1	32.6
1500	6.5	6.5	0.02	26.9	0.1	24.3	30.9	24.2
1700	6.5	6.5	0.01	28.3	0.1	24.9	25.4	24.8
1900	6.6	6.6	0.00	38.7	0.2	22.7	23.3	22.8
2100	6.6	6.6	0.01	26.0	0.2	31.4	32.7	31.4
2300	6.6	6.7	0.02	24.3	0.2	28.8	30.2	28.8
2500	6.7	6.7	0.02	29.1	0.2	20.5	23.1	20.5
2700	6.7	6.7	0.02	30.7	0.2	32.3	25.3	32.4
2900	6.7	6.7	0.01	22.5	0.2	32.7	34.0	32.8
3100	6.8	6.8	0.01	22.1	0.4	19.4	25.3	19.4
3300	6.9	6.9	0.03	27.9	0.3	19.6	20.9	19.6
3500	6.8	6.9	0.02	24.0	0.3	29.0	25.2	29.0
3700	6.9	6.9	0.01	21.7	0.3	25.5	32.6	25.4
3900	7.0	7.0	0.02	21.5	0.4	20.2	30.5	20.2
4100	7.0	7.0	0.03	27.8	0.3	23.5	25.8	23.6
4300	7.0	7.0	0.03	23.7	0.3	30.8	29.9	30.7
4500	7.1	7.1	0.03	21.6	0.3	20.6	32.8	20.6
4700	7.1	7.1	0.03	23.3	0.5	19.8	33.7	19.8
4900	7.1	7.1	0.05	23.9	0.4	32.0	32.0	32.2
5100	7.1	7.2	0.05	27.8	0.5	24.0	22.0	23.9
5300	7.2	7.3	0.06	20.5	0.5	18.7	26.0	18.7
5500	7.2	7.3	0.06	20.5	0.6	30.5	29.7	30.5
5700	7.3	7.3	0.06	24.3	0.7	25.4	22.4	25.6
5900	7.4	7.4	0.06	24.5	0.8	19.6	19.8	19.7
6100	7.3	7.4	0.07	21.3	0.6	29.6	26.2	29.9
6300	7.4	7.5	0.08	21.5	0.4	18.9	27.2	18.9
6500	7.5	7.6	0.06	30.2	0.5	19.0	19.8	18.9
6700	7.5	7.6	0.06	27.5	0.3	30.5	24.6	30.7
6900	7.6	7.7	0.07	28.5	0.2	21.1	30.4	21.1
7100	7.6	7.7	0.05	21.9	0.3	22.6	23.5	22.7
7300	7.7	7.8	0.06	21.8	0.6	30.0	29.7	30.0
7500	7.9	7.9	0.05	27.4	0.7	15.8	29.1	15.8
7700	7.9	7.9	0.07	20.6	0.9	19.6	25.3	19.6
7900	7.9	8.0	0.06	18.6	0.7	19.8	15.2	19.8

Outline Dimensions



Outline drawing: OL-4974

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

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

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