

8-way SMA Power Divider from 0.55-7.4 GHz SMP Male

ESAT-8PD0055074SMP

Description

ESAT-8PD0055074SMP is an 8-way splitter to cover 7.4GHz for Wi-Fi 6E signal distribution. Its compact size with SMP male connectors and recessed cover design to mitigate RF leakage make it ideal for dense configurations.

Specification	Min.	Typ.	Max.	Units
Frequency	600		7,400	MHz
Impedance		50		Ohm
Return Loss (Port S)	11	16		dB
Return Loss (Port 1-8)	13	17		dB
Insertion Loss (above theoretical 6.02dB)		2.4	3.6	dB
Isolation	17	20		dB
Amplitude Balance		0.3	0.8	dB
Phase Balance		4	14	Degrees
Input Power (CW) ¹			30	Watts

Mechanical

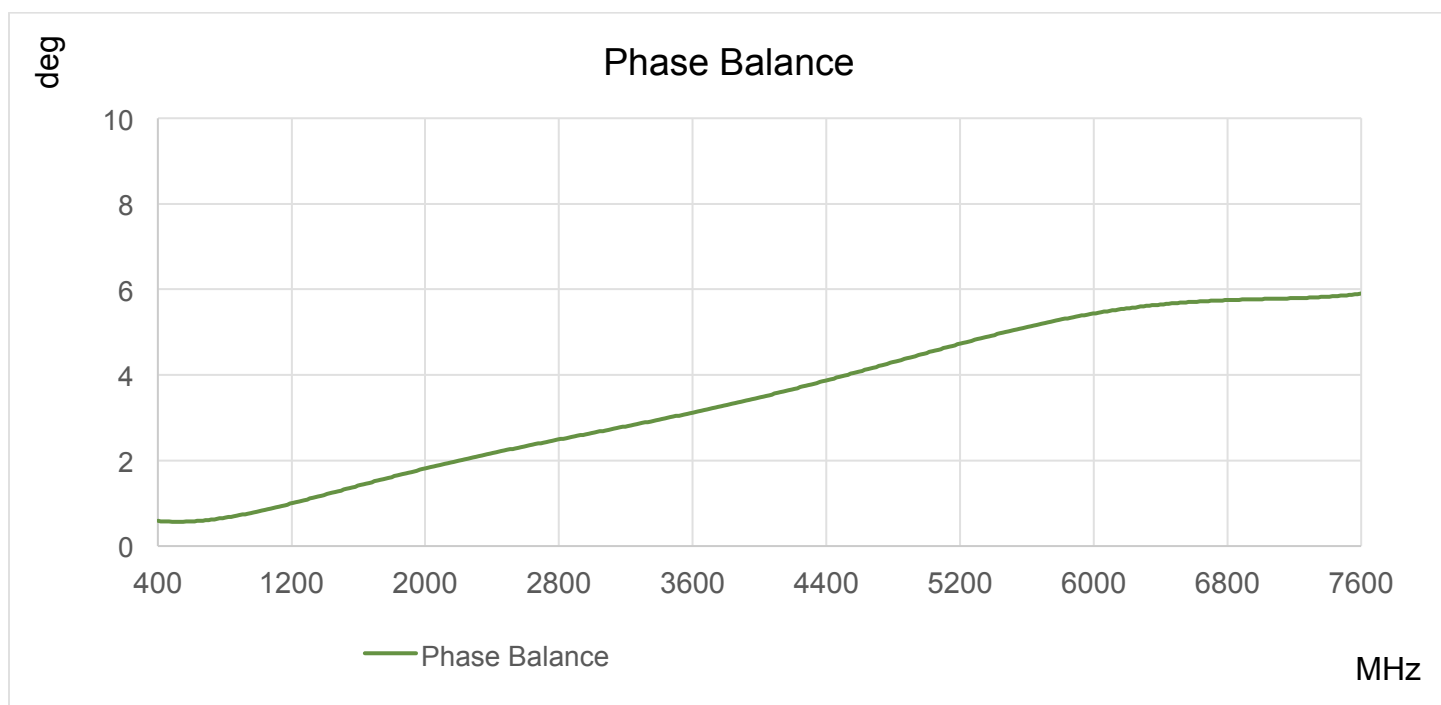
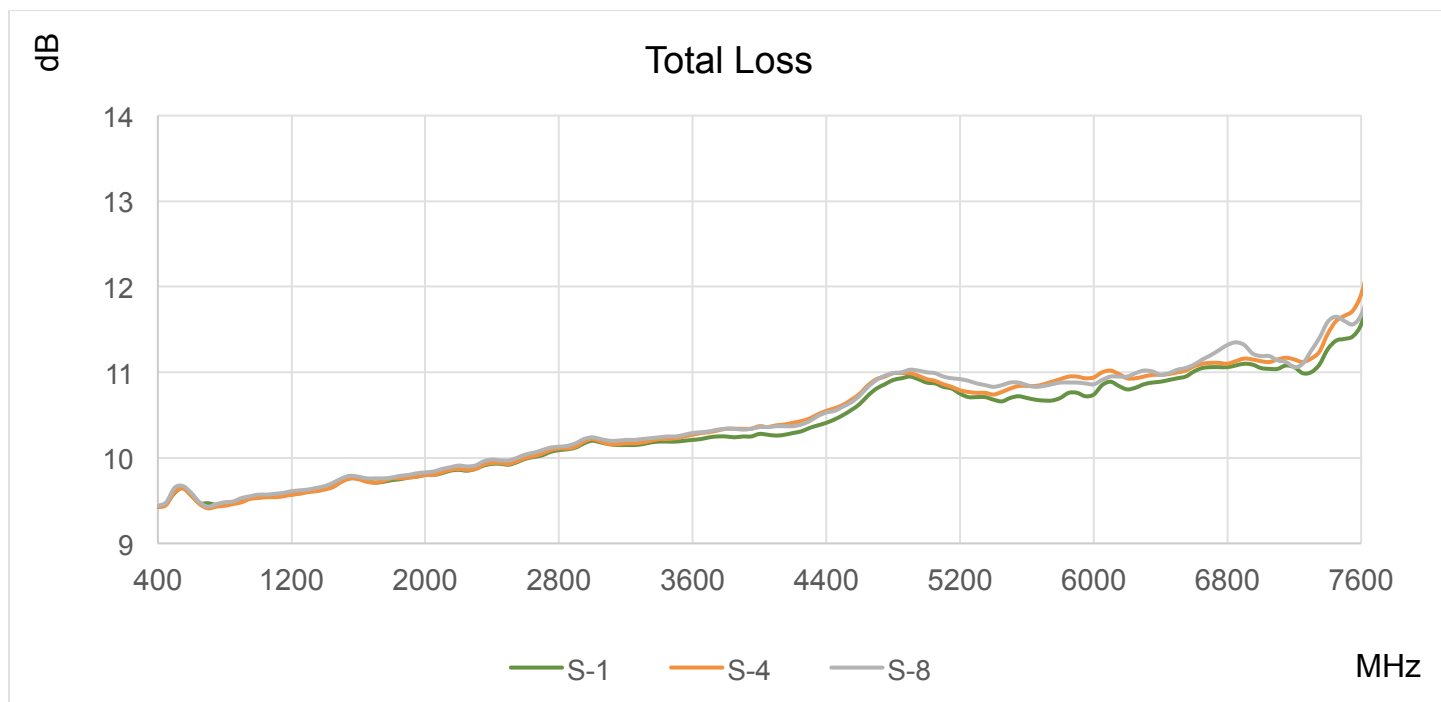
Connector Interface	SMA-Female
Operating Temperature ²	-10 to +65 °C
Storage Temperature	-55 to +100 °C
Weight Estimate	20 oz (567 g)
Humidity	10-90% non-condensing
Environment	Indoor use only
CAGE Code	87MG8

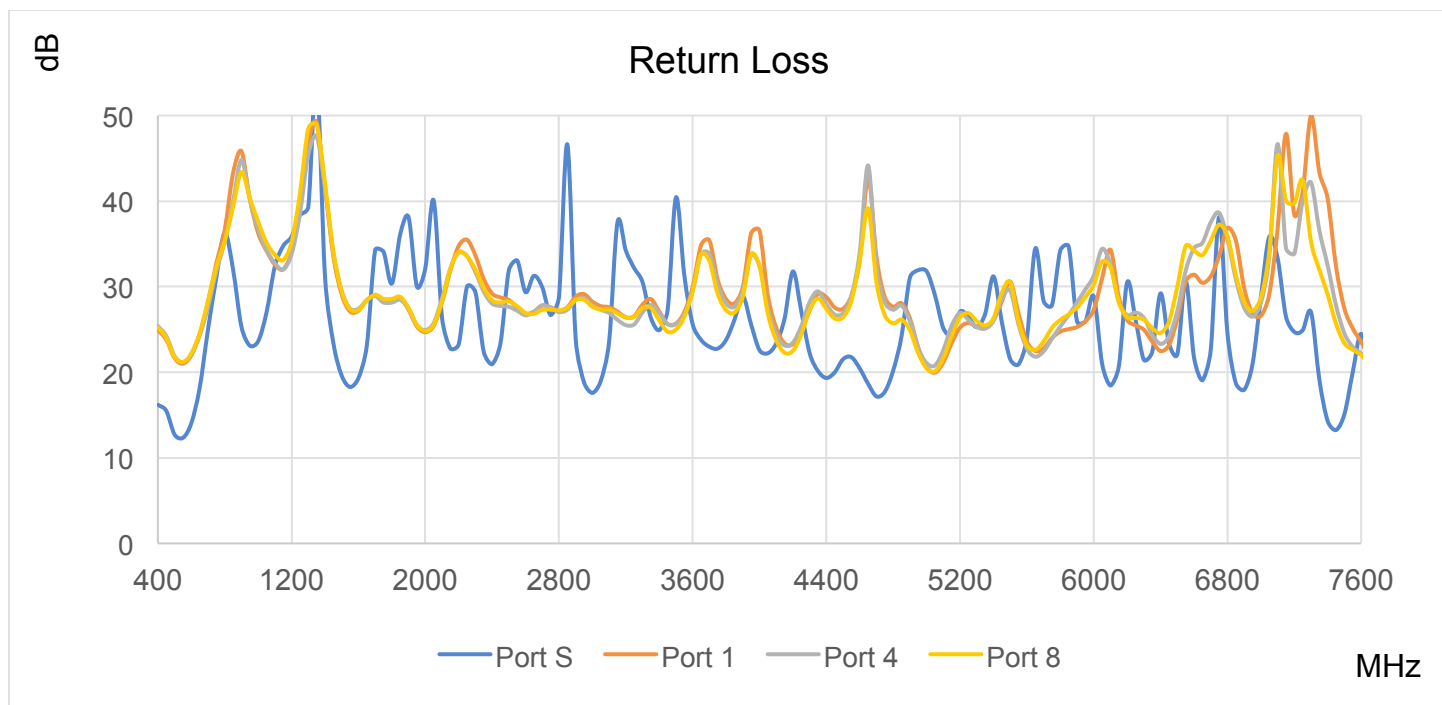
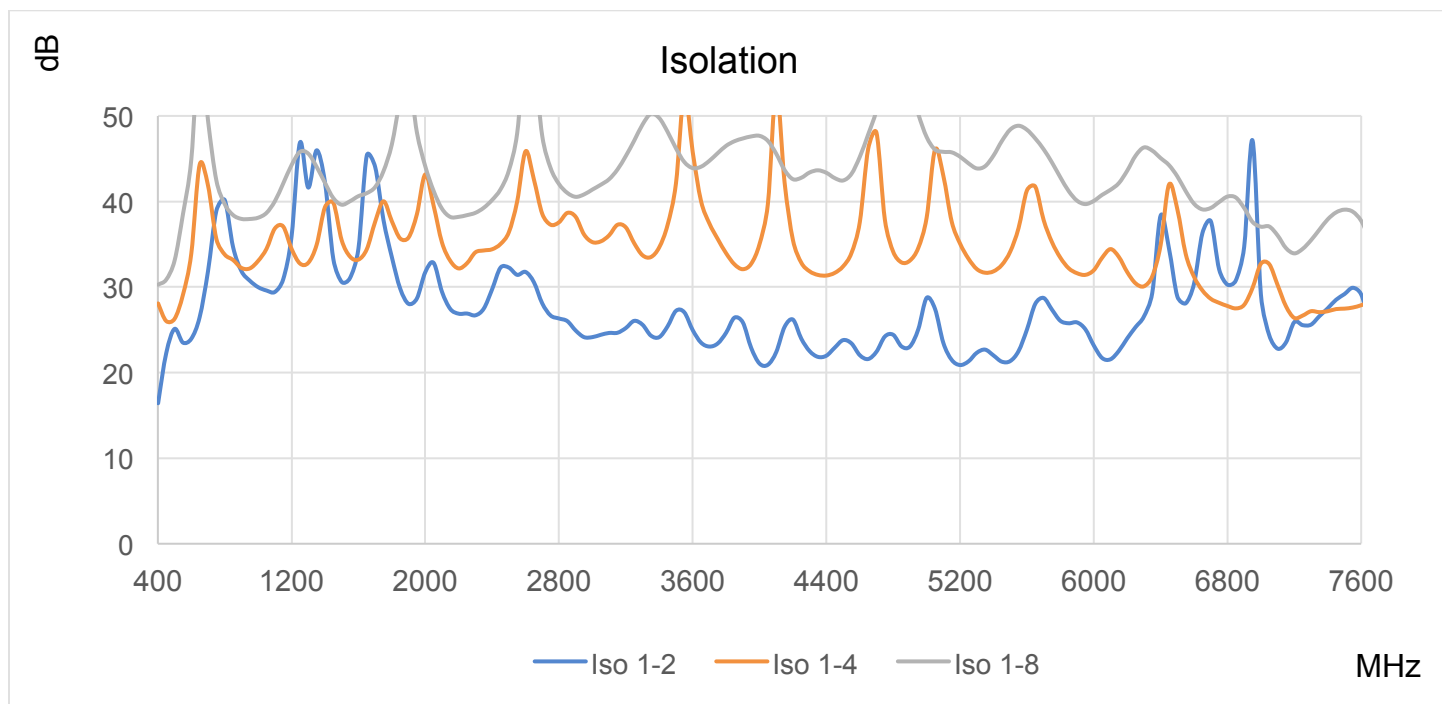
Materials

RoHS Compliant ³	Yes
REACH Compliant ³	Yes
Enclosure	Aluminum
Connectors	Brass, Gold Plated
Contacts	Be Cu, Gold Plated
Insulators	PTFE
Finish	Clear Chemical Film

1. All output ports should be terminated in a 50-ohm load with 1.2:1 max VSWR.
2. Electrical specification at +25 °C.
3. To the best of our knowledge at time of publication.

Typical Performance at +25 °C

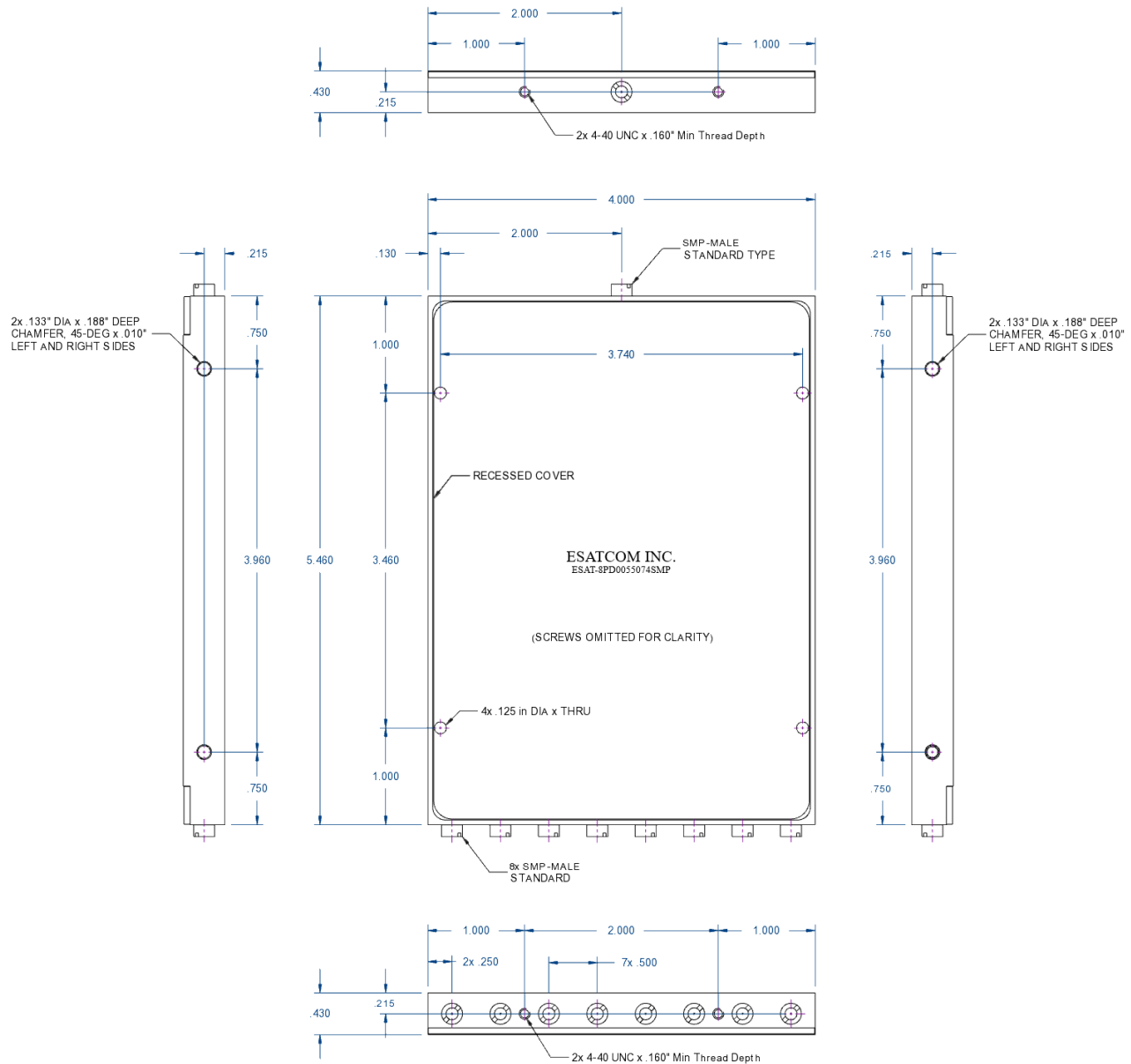




Typical Performance Data

Frequency (MHz)	Return Loss (dB)		Total Loss (dB)		Isolation (dB) 1-2
	Port S	Port 1	Port 2	S-1	S-2
500					
1000					
1500					
2000					
2500					
3000					
3500					
4000					
4500					
5000					
5500					
6000					
6500					
7000					
7500					
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Outline Dimensions



Outline drawing: OL-8774-21-M1

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

Tolerances on 2-pl decimals: $\pm .03$. 3-pl decimals: $\pm .015$.

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