

Wideband Single-Sided Power Divider 4-way SMA Female 400 MHz to 7.2 GHz

4-way SMA Power Divider 400 MHz to 7.2 GHz

D-4724

Description

Get your system ready for extended Wi Fi with model D-4724. This low loss, high performance splitter covers 400 MHz to 7.2 GHz. The device is RoHS compliant.



Photo is representative.

Specifications	Min.	Typ.	Max.	Units
Frequency	400		7,200	MHz
Impedance		50		Ohm
Return Loss (Port S)	10	19		dB
Return Loss (Ports 1-4)	16	24		dB
Insertion Loss (above 6.02 dB)		1.4	2.5	dB
Isolation	16	22		dB
Amplitude Balance		0.3	0.5	dB
Phase Balance		3.5	12	Degrees
Input Power (CW) ¹			30	Watts (CW)

Mechanical

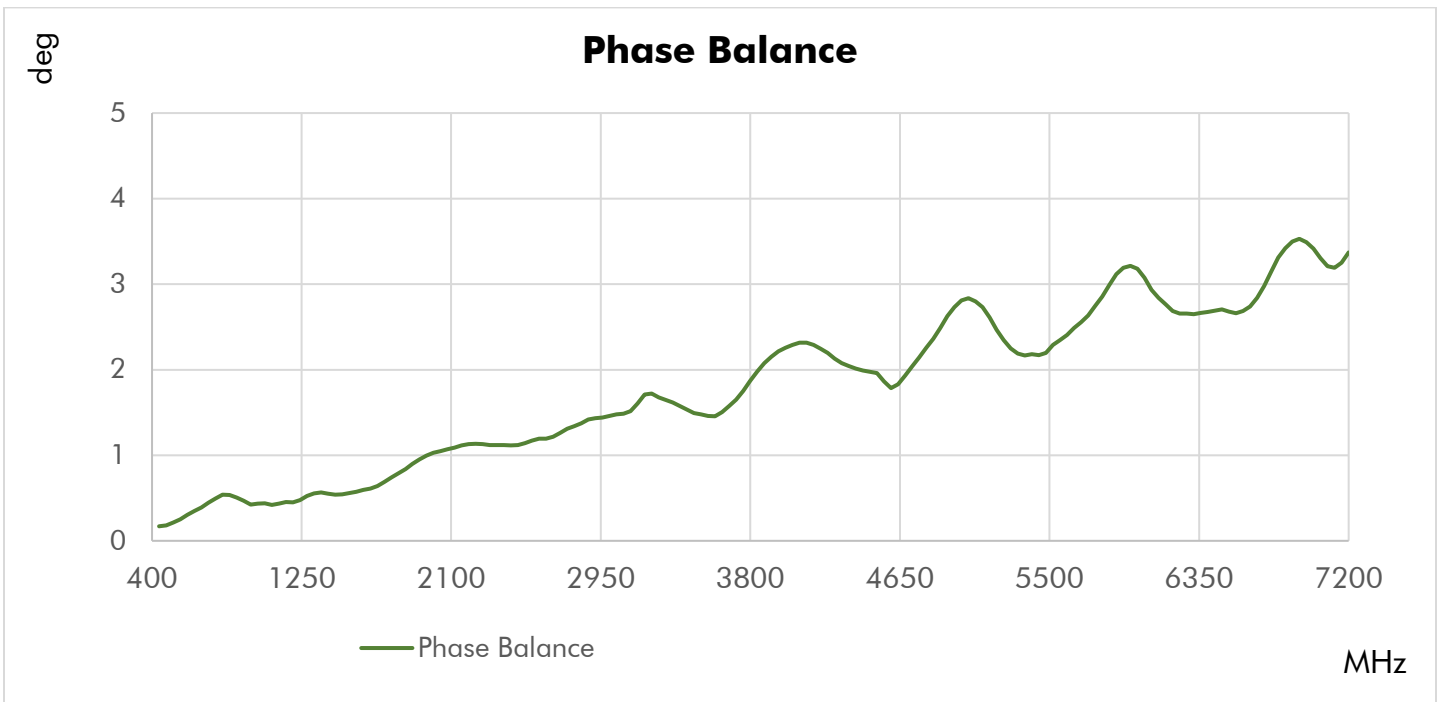
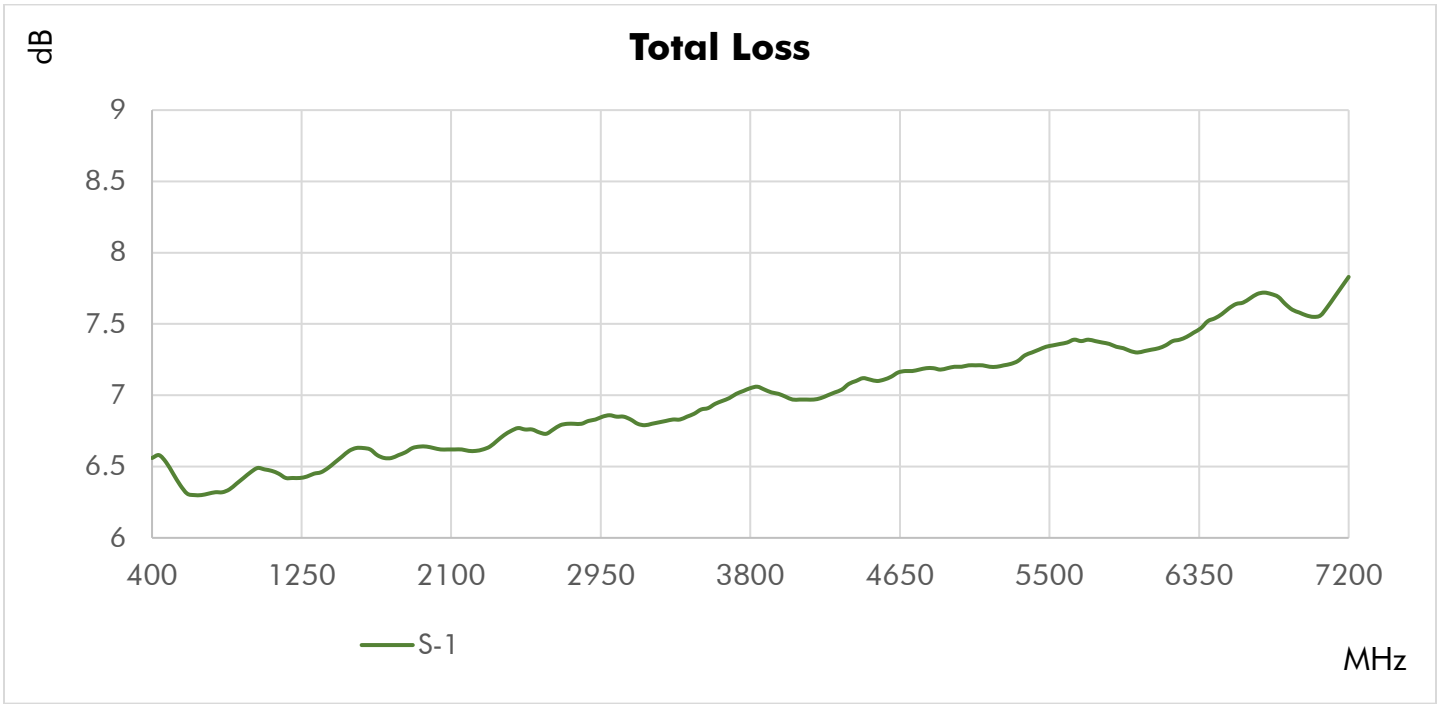
Connector Interface	SMA-Female
Operating Temperature ²	-40 to +85 °C
Storage Temperature	-55 to +100 °C
Weight Estimate	6 oz (170 g)
Humidity	10-90% non-condensing
Environment	Indoors Use Only

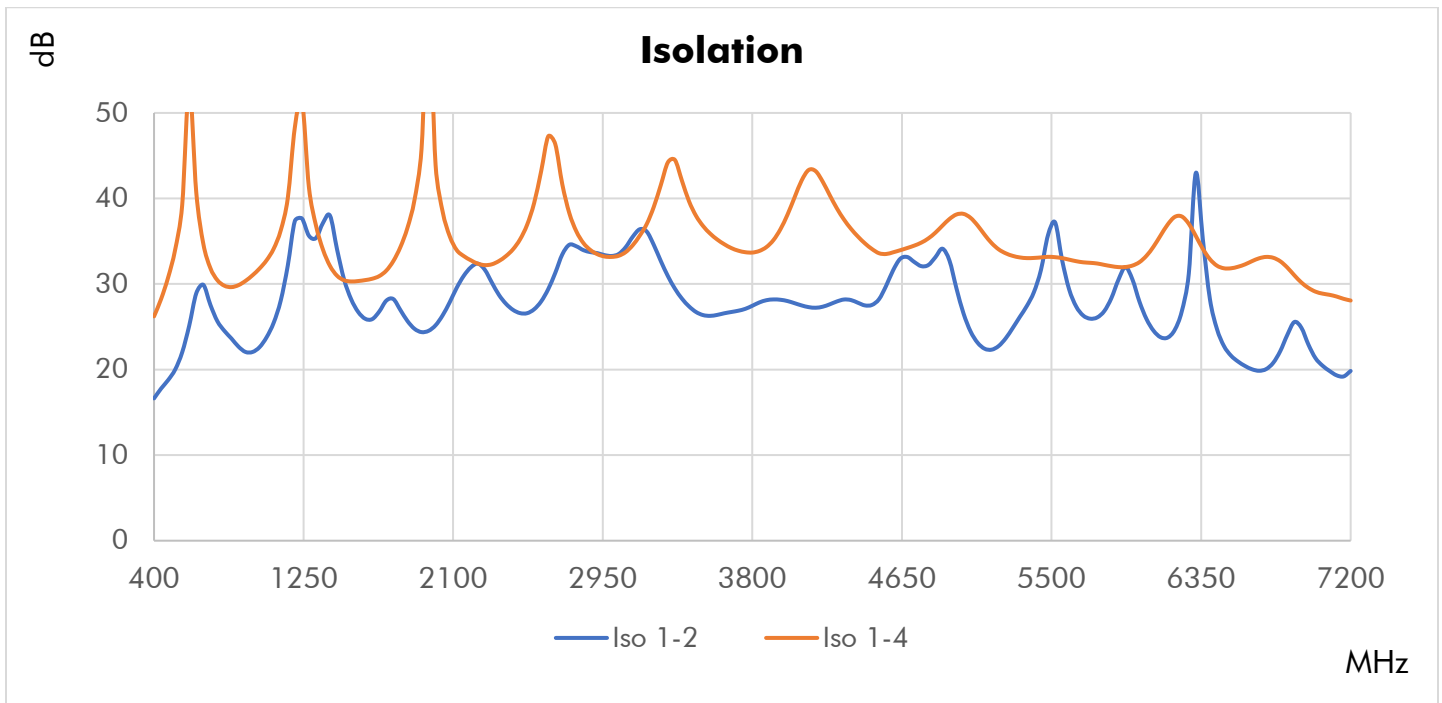
Materials

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

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 time of publication.

Typical Performance at +25 °C

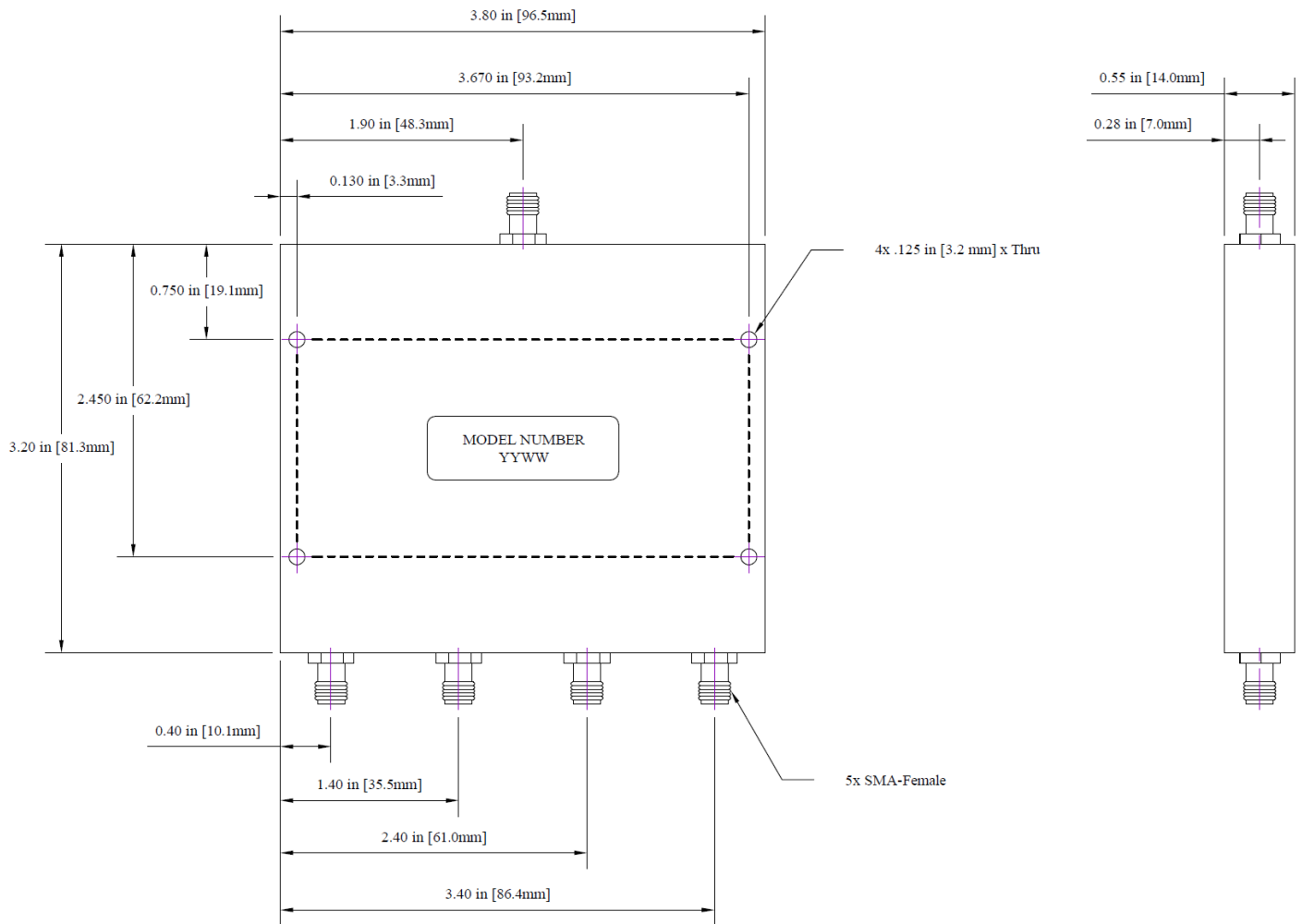




Typical Performance Data

Frequency (MHz)	Return Loss (dB)			Total Loss (dB)		Isolation (dB)	
	Port S	Port 1	Port 4	S-1	S-4	1-2	1-4
400	11.5	19.7	19.6	6.56	6.59	16.6	26.2
600	21.0	27.6	28.1	6.31	6.34	25.1	53.0
800	31.0	37.9	30.5	6.32	6.36	24.5	29.8
1000	16.0	29.9	25.6	6.49	6.53	22.6	31.8
1200	29.8	37.6	35.0	6.42	6.44	37.4	48.3
1400	21.1	30.1	33.8	6.49	6.51	38.0	32.1
1600	16.0	25.5	24.2	6.63	6.65	25.9	30.5
1800	25.3	24.8	24.7	6.58	6.57	27.0	34.3
2000	21.2	25.3	26.9	6.63	6.64	25.2	43.9
2200	30.2	32.8	30.6	6.61	6.62	32.0	32.8
2400	18.8	25.3	24.1	6.72	6.73	27.7	33.3
2600	22.4	27.2	27.6	6.74	6.75	28.0	43.2
2800	25.9	34.2	35.1	6.80	6.82	34.4	36.2
3000	19.6	31.0	29.0	6.86	6.86	33.3	33.2
3200	35.4	29.5	26.8	6.79	6.80	36.1	37.0
3400	24.8	27.2	27.9	6.83	6.85	28.3	42.1
3600	25.0	25.3	25.4	6.94	6.94	26.4	35.2
3800	19.4	24.5	22.4	7.05	7.05	27.5	33.7
4000	22.4	29.2	32.8	6.99	7.01	28.0	38.1
4200	22.8	28.9	24.7	6.98	7.00	27.4	42.0
4400	18.1	27.3	20.8	7.10	7.12	27.8	35.6
4600	22.8	32.6	23.9	7.13	7.16	31.6	33.7
4800	31.1	31.4	33.4	7.19	7.17	32.2	35.3
5000	20.2	20.9	21.7	7.20	7.18	26.6	38.2
5200	21.4	24.4	20.0	7.20	7.22	22.8	34.1
5400	20.9	40.9	27.9	7.30	7.29	29.1	33.1
5600	24.8	29.9	27.7	7.37	7.38	29.4	32.9
5800	23.7	39.8	30.0	7.37	7.36	26.8	32.2
6000	32.9	35.7	27.7	7.30	7.30	27.9	32.6
6200	24.0	25.9	34.3	7.38	7.34	24.6	37.8
6200	24.0	25.9	34.3	7.38	7.34	24.6	37.8
6400	21.9	28.6	24.4	7.52	7.53	28.3	32.9
6600	25.3	24.3	23.4	7.65	7.67	20.4	32.3
6800	18.3	19.7	22.6	7.69	7.62	22.2	32.7
7000	24.1	25.4	28.9	7.55	7.51	21.3	29.1
7200	19.1	24.8	32.0	7.83	7.73	19.8	28.1

Outline Dimensions



Outline drawing: OL-4724

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

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

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