

Power Divider, 4-way, 18-26.5GHz, SMA Female

WM4PD-18-26.5-S



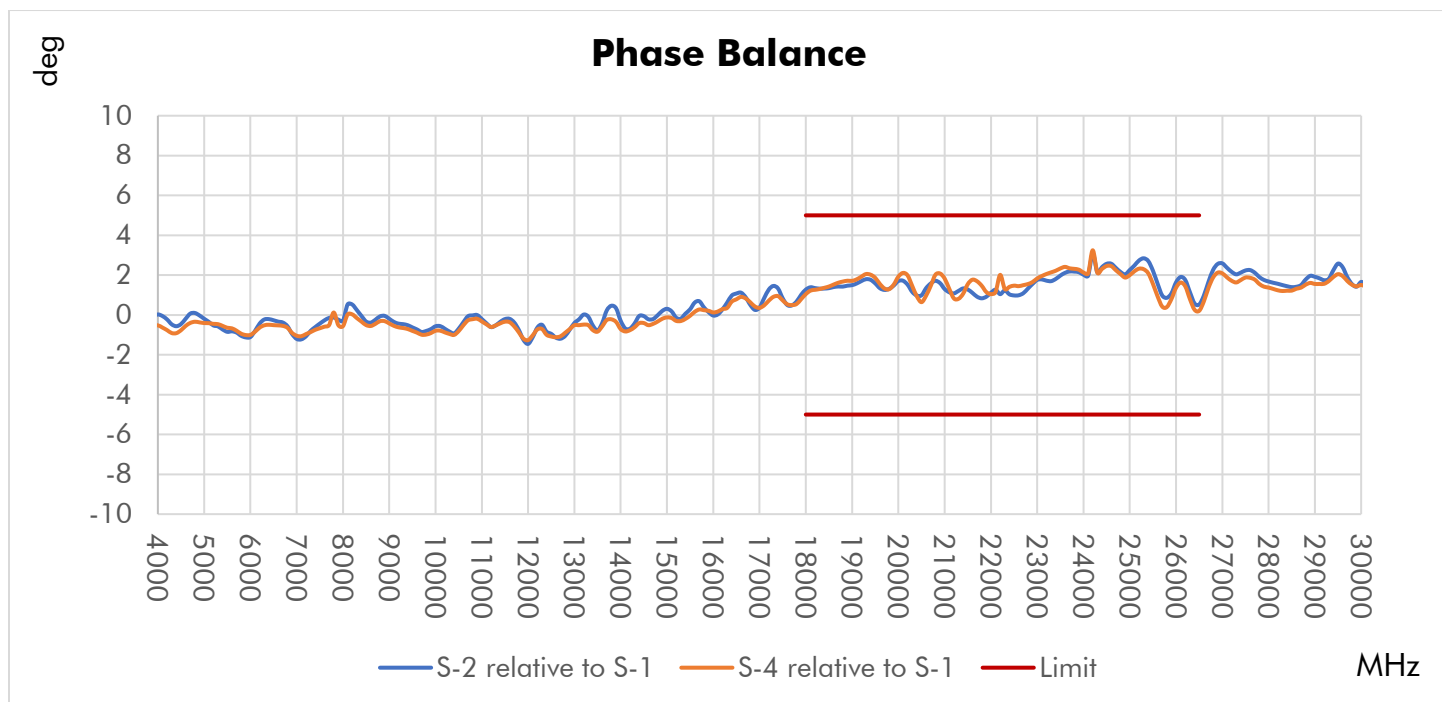
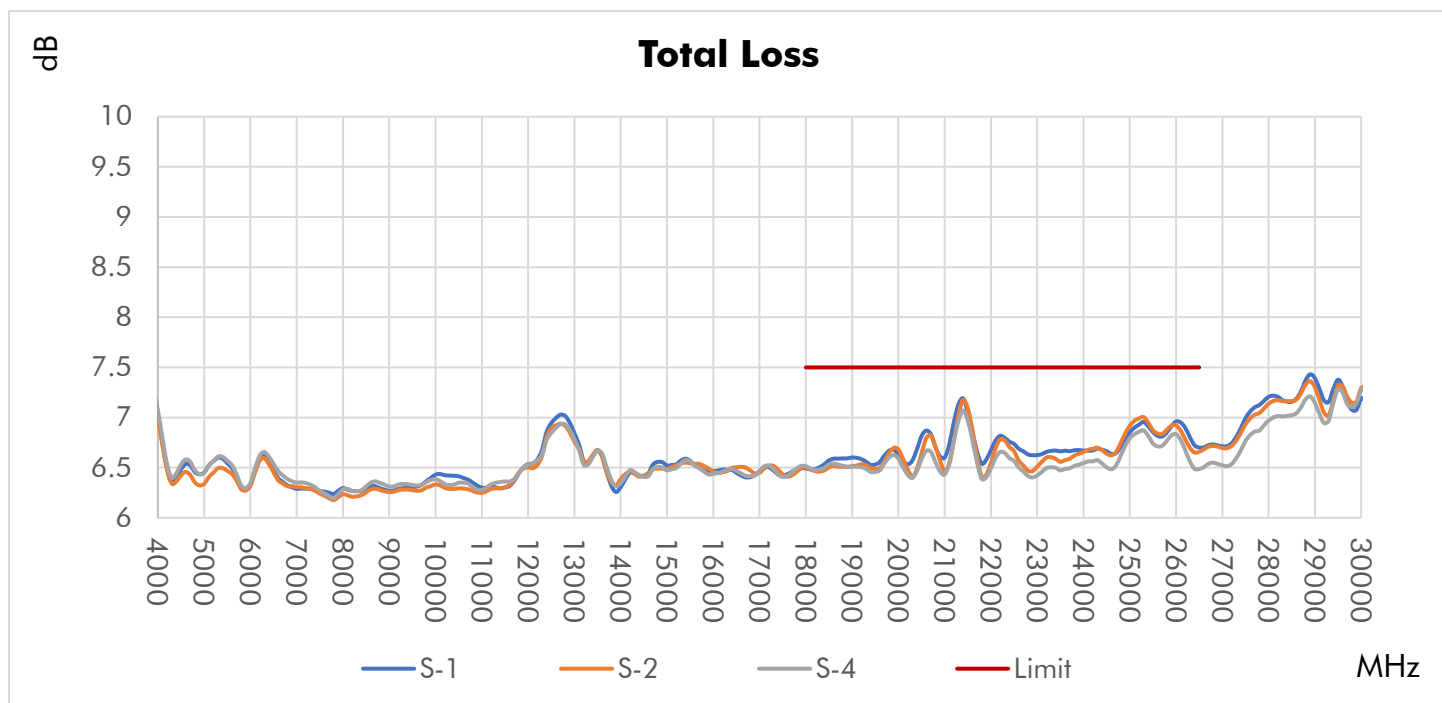
Parameter	Min.	Typ.	Max.	Unit
Frequency Range	18000		26500	MHz
Impedance		50		Ω
Return Loss (Port S)	12.7	15.1		dB, min.
Return Loss (Port 1-2)	13.7	15.1		dB, min.
Insertion Loss above 6dB		1.2	1.5	dB, max.
Isolation	17	19		dB, min.
Amplitude Unbalance ($\pm$) ¹		0.09	0.4	dB, max.
Phase Unbalance ($\pm$) ¹		1.5	5	Degree, max.
Input Power (CW) ²		10		W, max.
Combining Power (CW) ²		0.075		W/port, max.
Internal Dissipation		0.6		W, max.
DC Current		0.100		A/port, max.

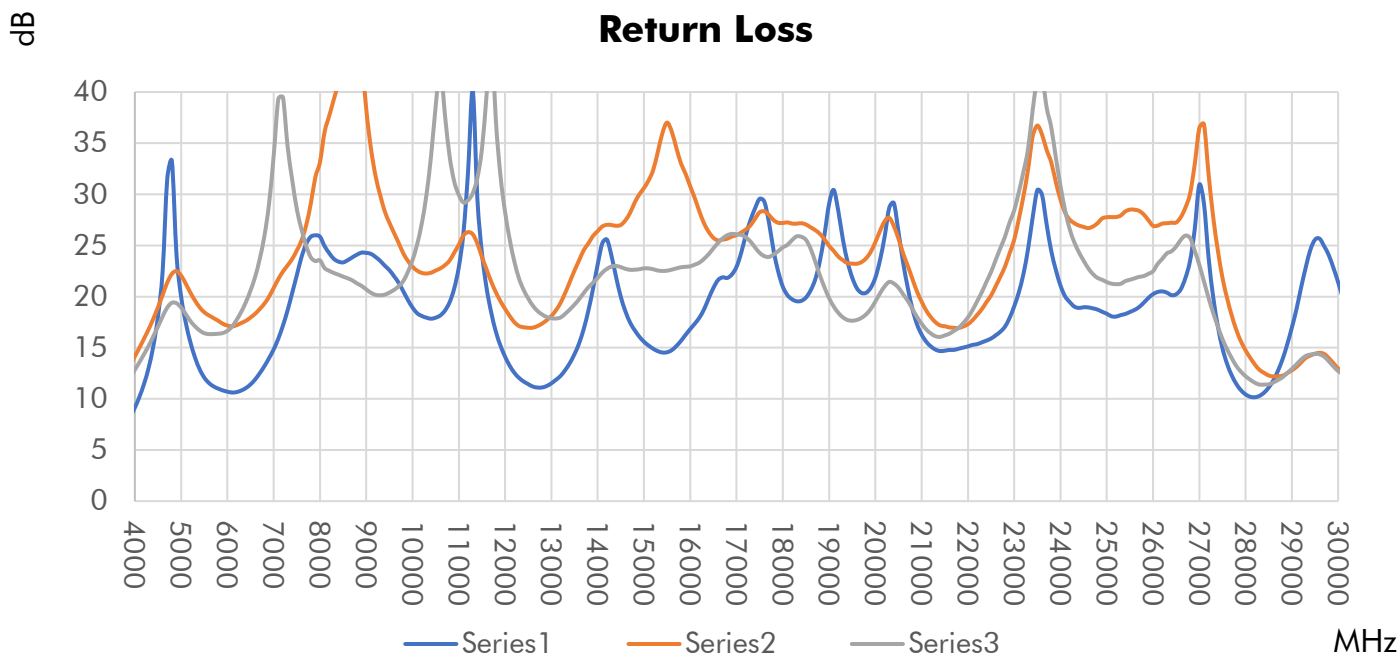
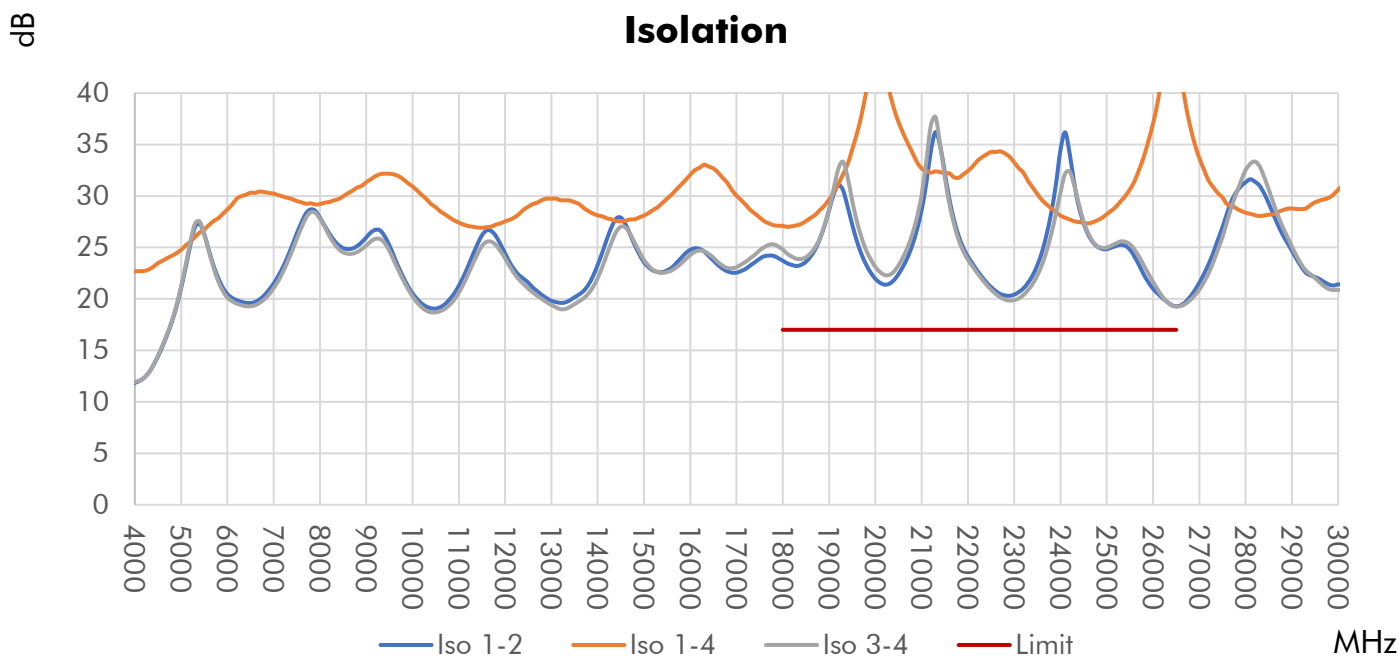
Connector Interface	SMA Female
Operating Temperature ³	-55 to +85 °C
Storage Temperature	-55 to +100 °C
Nominal Weight	59.2 g (2.09 oz)
Operating Humidity	10-90% (non-condensing)
Operating Environment	Indoor Use Only
HTSUS Code	8548.00.0000
ECCN	EAR99

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

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.

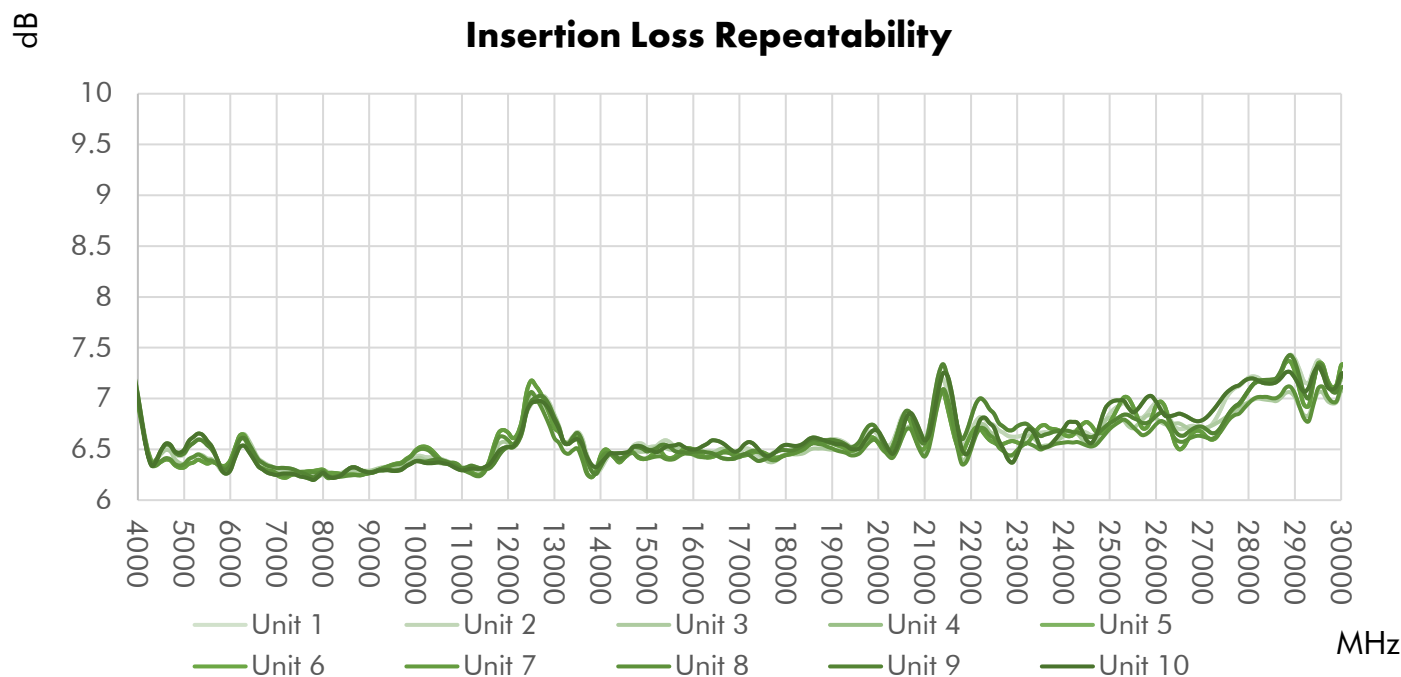
Typical Performance at +25 °C



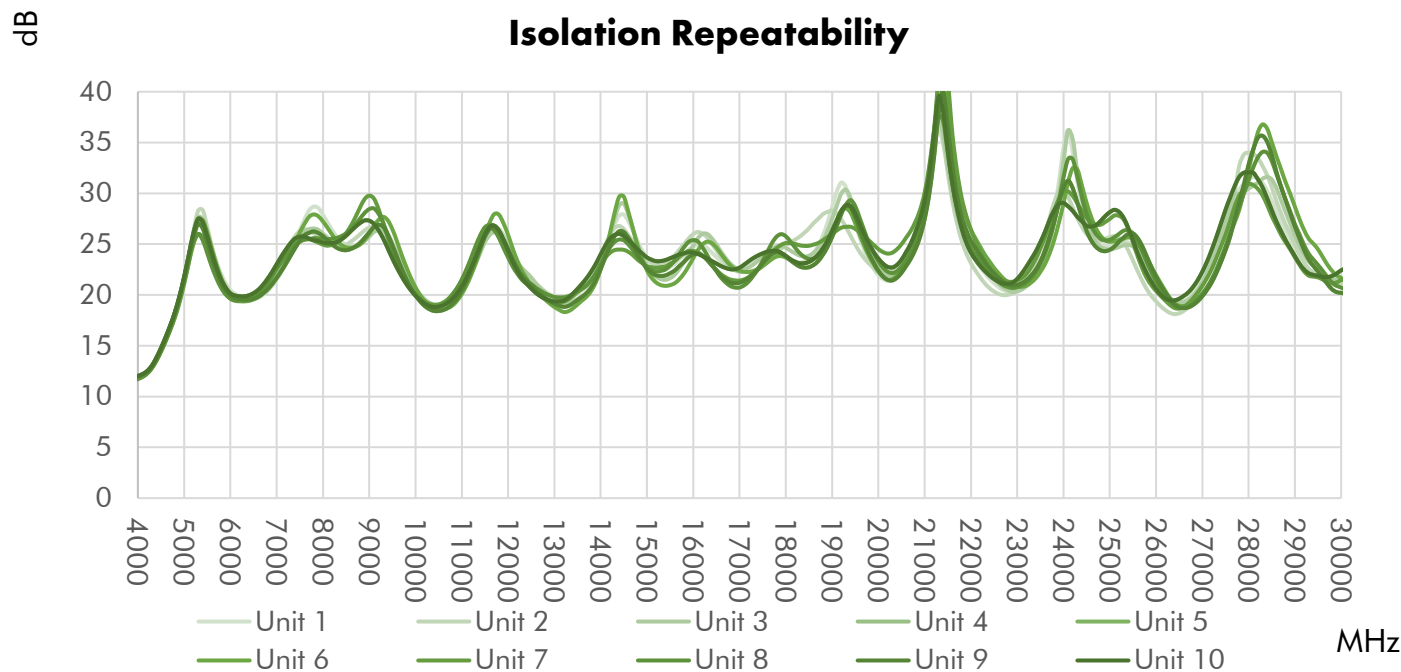


Repeatability in Production

Insertion Loss Repeatability



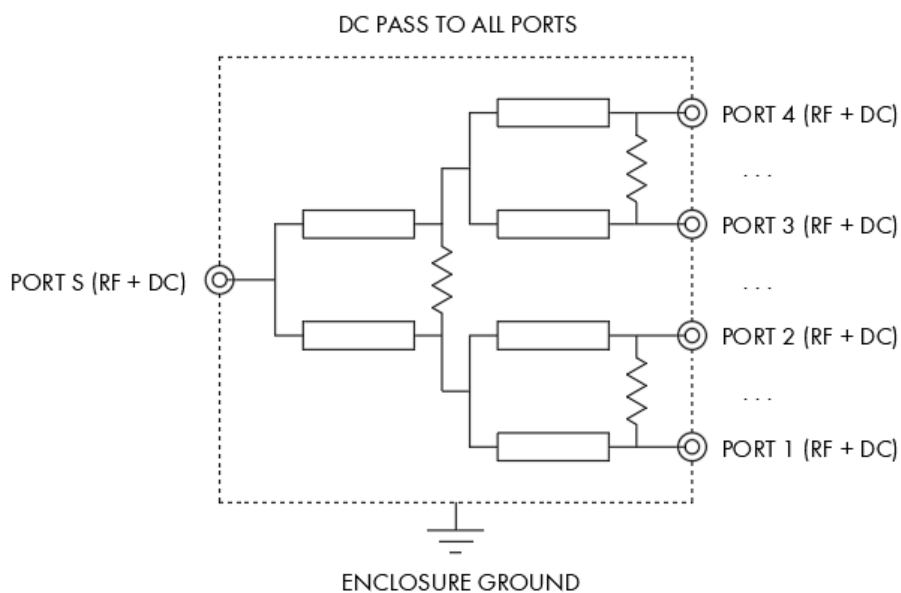
Isolation Repeatability



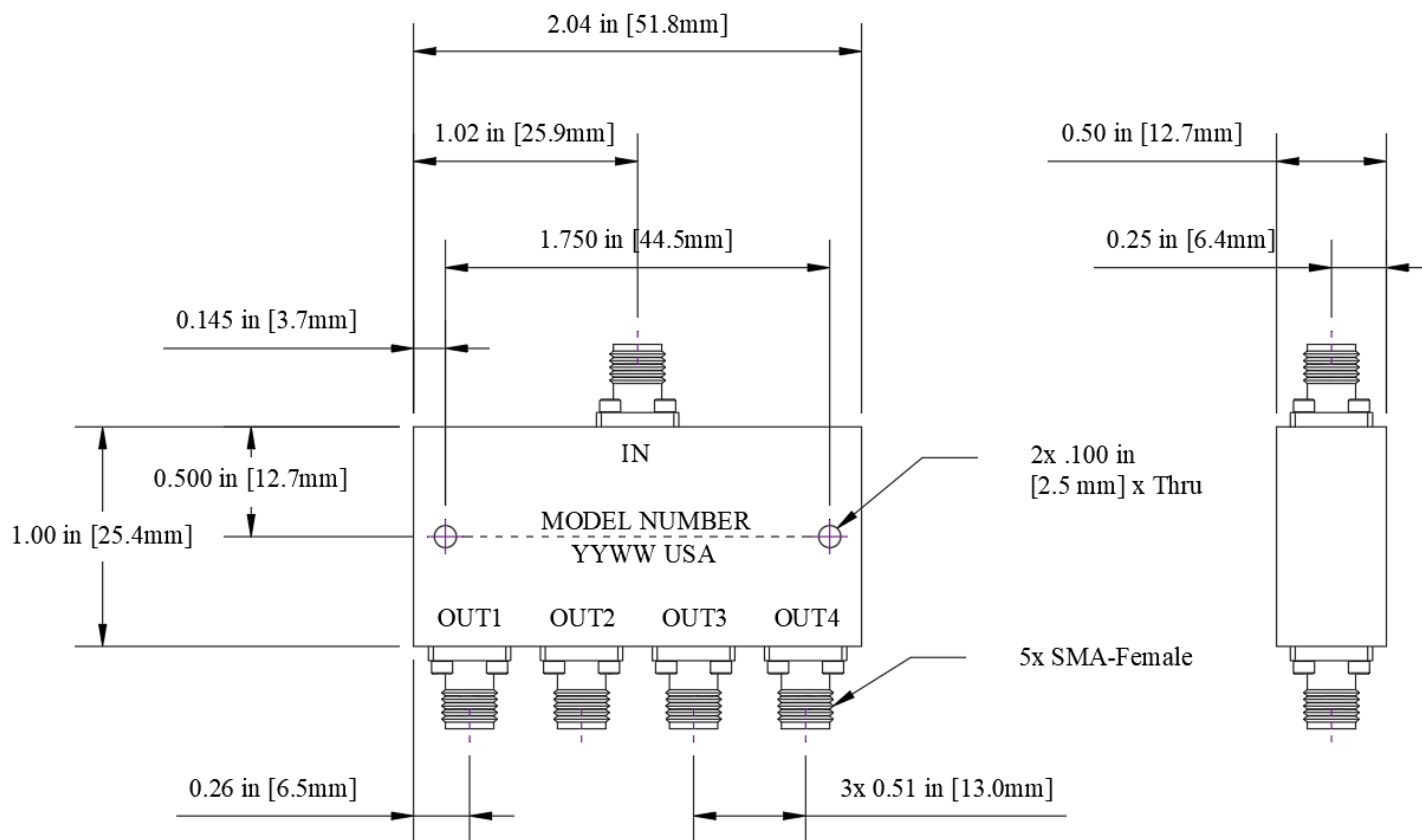
Typical Performance Data

Frequency (MHz)	Return Loss (dB)			Total Loss (dB)		Isolation (dB)	
	Port S	Port 1	Port 4	S-1	S-4	1-2	1-4
3000	5.51	9.96	9.61	7.67	7.78	13.46	18.50
4000	9.14	14.15	12.85	6.94	7.08	11.84	22.66
5000	19.98	22.05	18.93	6.35	6.45	21.06	24.76
6000	10.70	17.17	16.65	6.36	6.35	20.46	28.70
7000	14.84	20.85	33.79	6.33	6.35	21.50	30.23
8000	25.85	33.16	23.54	6.31	6.28	27.89	29.21
9000	24.27	38.31	20.70	6.28	6.31	25.97	31.34
10000	18.92	22.92	23.57	6.44	6.38	20.54	30.92
11000	22.89	25.08	29.93	6.45	6.28	21.28	27.42
12000	14.12	18.79	28.25	6.59	6.53	24.43	27.54
13000	11.52	18.10	17.89	6.89	6.79	19.81	29.74
14000	23.14	26.40	21.82	6.65	6.35	23.31	28.11
15000	15.59	30.61	22.76	6.77	6.47	23.57	28.10
16000	16.83	30.77	22.96	6.82	6.44	24.77	32.05
17000	22.91	26.01	26.09	6.73	6.46	22.55	30.03
18000	20.97	27.20	24.82	6.82	6.51	23.71	27.10
19000	29.07	24.96	19.85	6.77	6.51	28.63	29.66
20000	21.85	25.33	19.52	6.75	6.59	21.95	43.85
21000	16.29	19.50	17.35	6.66	6.43	28.65	32.67
22000	15.13	17.30	17.96	6.63	6.49	24.11	32.44
23000	19.06	25.56	28.43	6.64	6.42	20.41	33.26
24000	21.08	29.48	30.82	6.71	6.55	34.47	28.09
25000	18.33	27.76	21.42	6.87	6.79	24.83	28.24
26000	20.24	26.92	22.47	6.82	6.83	20.99	37.04
27000	30.94	36.48	23.10	6.83	6.52	21.57	33.68
28000	10.44	14.74	12.21	7.03	6.97	31.33	28.37
29000	16.98	12.79	12.93	7.29	7.15	24.68	28.78
30000	21.40	12.97	12.71	7.20	7.28	21.41	30.62

Simplified Electrical Schematic



Outline Dimensions



Outline drawing: OL-04-1826

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

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

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