

Resistive Divider, DC-7.2GHz, 4-way, SMA-Female

WMRD04-7.2-S

Description

WMRD04-7.2-S is a resistive splitter that covers up to 7.2GHz with ultra-wide bandwidth. This star topology 4-way design is useful when there are many low power signals within a wide spectrum. Its applications fit markets such as CATV, test and measurement, and military radio. Its small size makes it easy to integrate into compact systems. Designed, assembled, and tested in the USA.



Photo is representative.

Specifications	Min.	Typ.	Max.	Units
Frequency	DC	--	7.2	GHz
Impedance	--	50	--	Ohm
Return Loss (Port S)	9.5	12	--	dB
Return Loss (Port 1-4)	9.5	14	--	dB
Insertion Loss (Total Measured Loss)	--	12.0	13.2	dB
Isolation	--	12.0	--	dB
Input Power (CW) ¹	--	--	1	Watts

Mechanical

Connector Interface	SMA-Female
Operating Temperature ²	-40 to +85 °C
Storage Temperature	-55 to +100 °C
Weight Estimate	25.2 g (0.89 oz)
Humidity	10-90% non-condensing
Environment	Indoors Use Only
CAGE Code	78YZ0

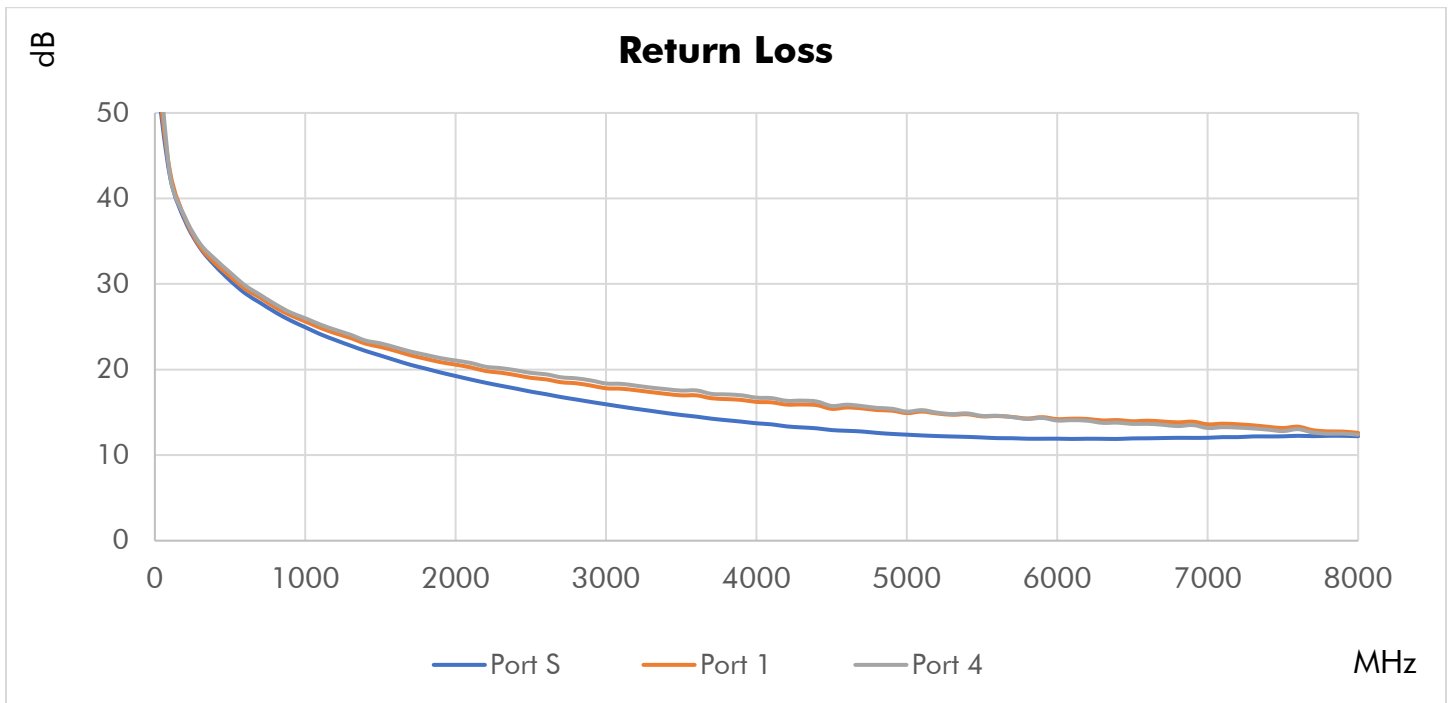
- All output ports should be terminated in a 50-ohm load with 1.2:1 max VSWR.
- Electrical specifications at +25 °C only.
- To the best of our knowledge at the time of publication.

Materials

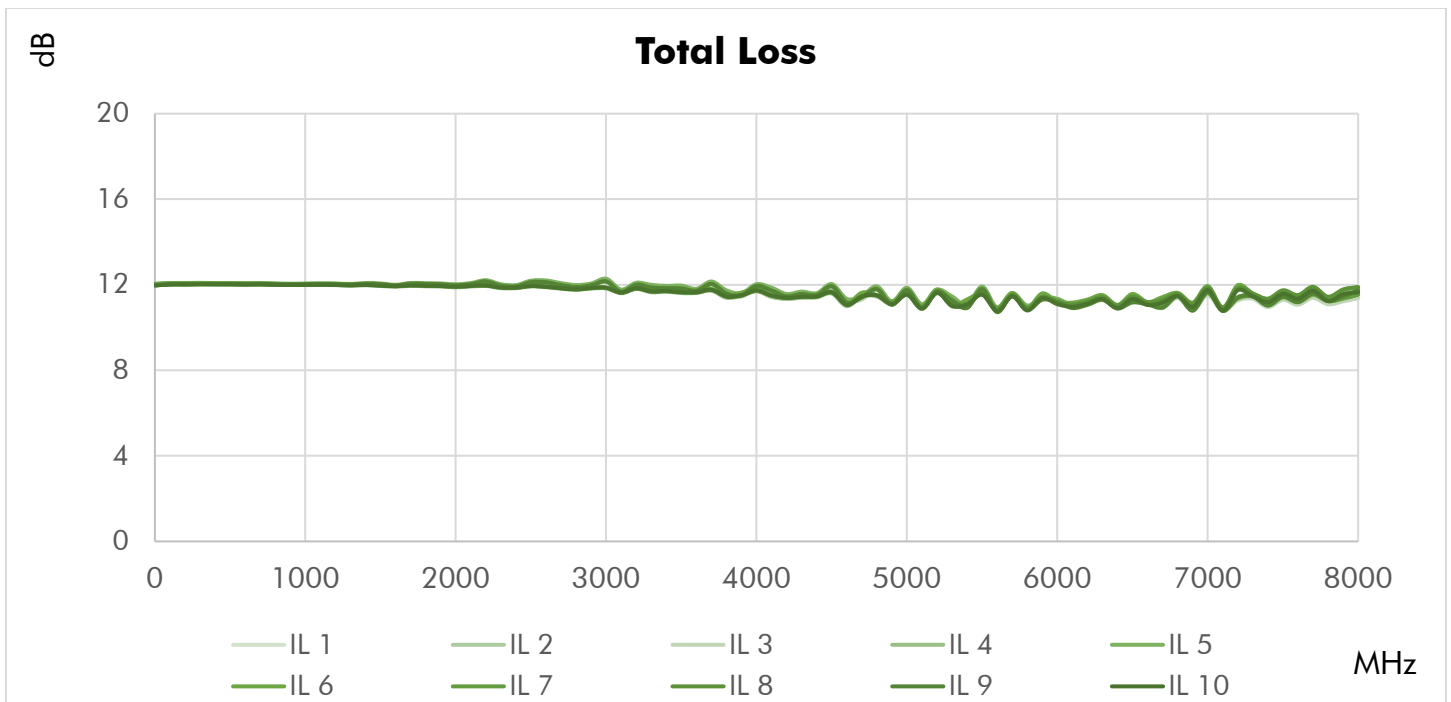
RoHS Compliant ³	Yes
REACH Compliant ³	Yes
Enclosure	Aluminum
Connectors	Brass, Gold Plated
Contacts	Be Cu, Gold Plated
Insulators	PTFE
Finish	Green Paint

Typical Performance at +25 °C





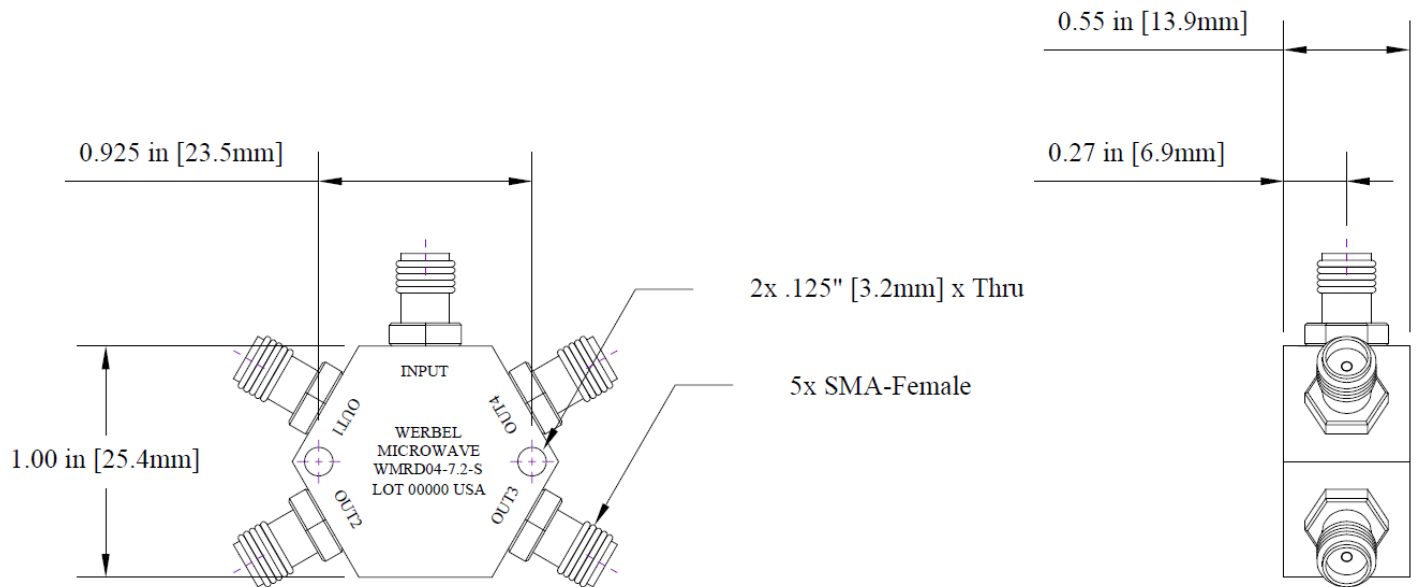
Repeatability in Production



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
1	55.51	56.81	62.09	11.98	11.97	11.98	11.96
100	42.55	43.11	42.66	12.01	12.02	12.02	12.00
200	37.38	37.66	37.79	12.02	12.03	12.02	12.00
300	34.22	34.36	34.70	12.03	12.04	12.04	12.02
400	32.13	32.42	32.91	12.03	12.04	12.04	12.02
500	30.40	30.88	31.34	12.03	12.04	12.05	12.03
600	28.91	29.42	29.83	12.02	12.03	12.06	12.03
700	27.80	28.40	28.73	12.03	12.04	12.08	12.05
800	26.71	27.26	27.64	12.02	12.03	12.08	12.04
900	25.75	26.36	26.68	12.01	12.02	12.10	12.04
1000	24.94	25.62	26.00	12.02	12.03	12.12	12.06
1500	21.64	22.64	23.06	12.02	12.03	12.24	12.12
2000	19.24	20.58	21.06	11.95	11.97	12.39	12.14
2500	17.42	19.03	19.61	12.08	12.09	12.67	12.37
3000	15.94	17.81	18.37	12.13	12.12	12.89	12.53
3500	14.69	16.99	17.54	11.81	11.82	13.07	12.37
4000	13.72	16.22	16.72	11.90	11.92	13.62	12.64
4500	12.93	15.41	15.75	11.93	11.95	14.07	12.82
5000	12.39	14.91	15.08	11.78	11.84	14.62	12.87
5500	12.07	14.53	14.58	11.87	11.94	15.34	13.11
6000	11.92	14.21	14.05	11.32	11.43	15.77	12.75
6500	11.95	13.96	13.65	11.26	11.41	17.02	12.89
7000	12.03	13.60	13.17	11.67	11.87	18.49	13.48
7500	12.20	13.17	12.81	11.46	11.66	19.57	13.48
8000	12.21	12.60	12.38	11.55	11.74	20.94	13.80

Outline Dimensions



Outline drawing: OL-R06-04

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

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

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