



Mini-Circuits

MMIC SURFACE MOUNT

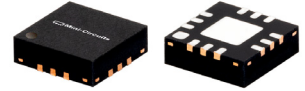
Power Splitter/Combiner

WP4P1+

4 Way-0° 50Ω 1525 to 2375 MHz

FEATURES

- Excellent isolation, 26 dB typ.
- Excellent phase unbalance, 1 deg. typ.
- Excellent amplitude unbalance, 0.15 dB typ.
- Small size, .118" x .118" x .035"
- High ESD level
- Aqueous washable



Generic photo used for illustration purposes only

CASE STYLE: DQ1225

+RoHS CompliantThe +Suffix identifies RoHS Compliance.
See our website for methodologies and qualifications

APPLICATIONS

- PCS/DCS
- WCDMA
- GPS
- MMDS

ELECTRICAL SPECIFICATIONS AT 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units
Frequency Range		1525		2375	MHz
Insertion Loss* (above 6.0 dB)	1525-2375	—	0.9	2.0	dB
Isolation	1525-2375	15	26	—	dB
Amplitude Unbalance	1525-2375	—	—	0.5	dB
Phase Unbalance	1525-2375	—	—	4.0	deg.
VSWR (Port S)	1525-2375	—	1.5	—	:1
VSWR (Ports 1,2,3,4)	1525-2375	—	1.4	—	:1

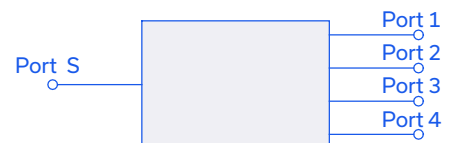
*Includes fixture loss, 0.17 dB typ.

MAXIMUM RATINGS

Parameter	Ratings
Operating temperature	-40°C to 85°C
Storage temperature	-65°C to 150°C
Power Input (as a splitter)	1.5W max.
Internal Dissipation	0.375W max.

Permanent damage may occur if any of these limits are exceeded.

ELECTRICAL SCHEMATIC

REV. D
ECO-015507
WP4P1+
MCL NY
221025

Mini-Circuits

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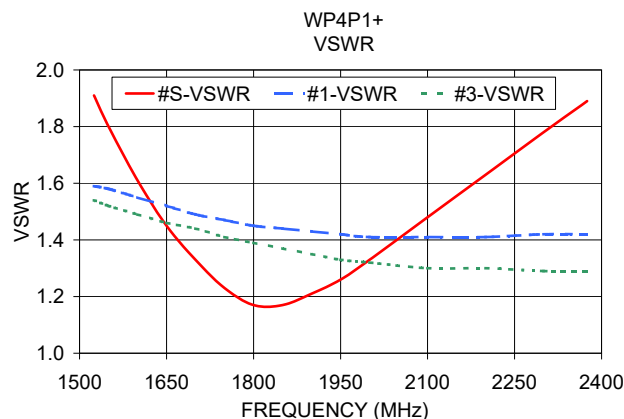
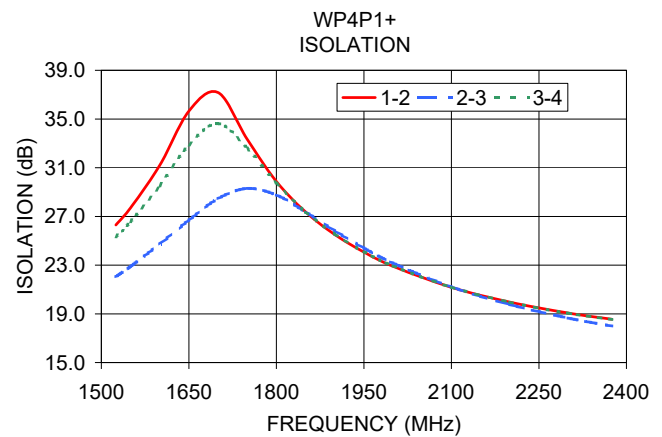
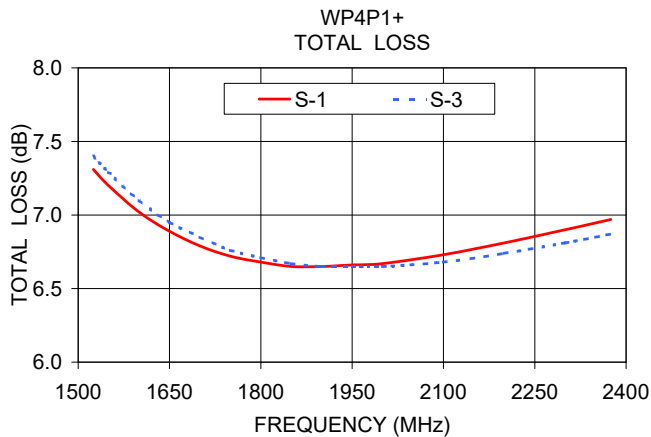
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4 Way-0° 50Ω 1525 to 2375 MHz

TYPICAL PERFORMANCE DATA AND CHARTS

Frequency (MHz)	Total Loss ¹ (dB)				Amplitude Unbalance (dB)	Isolation (dB)			Phase Unbalance (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3	VSWR 4
	S-1	S-2	S-3	S-4		1-2	2-3	3-4						
1525.00	7.31	7.46	7.40	7.27	0.19	26.30	22.05	25.33	1.42	1.91	1.59	1.53	1.54	1.55
1550.00	7.20	7.35	7.29	7.17	0.18	27.70	22.89	26.57	1.30	1.80	1.58	1.52	1.52	1.53
1600.00	7.02	7.16	7.10	6.99	0.17	31.20	24.73	29.51	1.08	1.61	1.55	1.48	1.49	1.50
1650.00	6.89	7.01	6.95	6.85	0.16	35.65	26.69	32.87	0.86	1.45	1.52	1.45	1.46	1.47
1700.00	6.79	6.90	6.85	6.75	0.15	37.18	28.46	34.62	0.65	1.33	1.49	1.42	1.44	1.45
1750.00	6.72	6.82	6.76	6.68	0.14	33.34	29.30	32.61	0.45	1.23	1.47	1.40	1.41	1.43
1800.00	6.68	6.76	6.71	6.63	0.13	29.87	28.76	29.73	0.25	1.17	1.45	1.37	1.39	1.41
1850.00	6.65	6.72	6.67	6.61	0.12	27.37	27.37	27.37	0.22	1.17	1.44	1.35	1.37	1.40
1900.00	6.65	6.70	6.65	6.59	0.11	25.51	25.82	25.54	0.40	1.21	1.43	1.34	1.35	1.38
1950.00	6.66	6.69	6.65	6.60	0.09	24.07	24.40	24.10	0.57	1.26	1.42	1.32	1.33	1.38
2000.00	6.67	6.69	6.65	6.61	0.08	22.91	23.17	22.93	0.71	1.33	1.41	1.31	1.32	1.37
2100.00	6.73	6.73	6.68	6.67	0.07	21.18	21.21	21.19	1.04	1.48	1.41	1.29	1.30	1.36
2200.00	6.81	6.78	6.74	6.74	0.07	19.96	19.77	19.95	1.31	1.63	1.41	1.28	1.30	1.37
2300.00	6.90	6.85	6.81	6.84	0.09	19.07	18.66	19.05	1.57	1.78	1.42	1.28	1.29	1.37
2375.00	6.97	6.92	6.87	6.91	0.10	18.55	18.00	18.53	1.80	1.89	1.42	1.28	1.29	1.38

1. Total Loss = Insertion Loss + 6dB splitter loss.



NOTES

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the standard terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/terms/viewterm.html

