



Mini-Circuits

MMIC SURFACE MOUNT

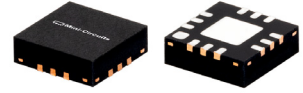
Power Splitter/Combiner

WP4G1+

4 Way-0° 50Ω 1300 to 2000 MHz

FEATURES

- Excellent Isolation, Typ. 26 dB
- Excellent Phase Unbalance, Max. 5 deg.
- Excellent Amplitude Unbalance, Max. 0.5 dB
- Small Size, 3x3 mm
- 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

- GPS
- PCS
- DCS
- WCDMA

ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units
Frequency Range		1300		2000	MHz
Insertion Loss* (Above 6.0 dB)	1300-2000		0.8	1.9	dB
Isolation	1300-2000	14	26		dB
Amplitude Unbalance	1300-2000			0.5	dB
Phase Unbalance	1300-2000			5	deg.
VSWR (Port S)	1300-2000		1.5		:1
VSWR (Ports 1,2,3,4)	1300-2000		1.4		:1

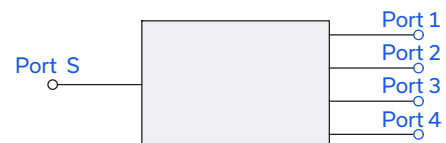
* Includes fixture loss, 0.12 dB typ.

ABSOLUTE MAXIMUM RATINGS

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

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

ELECTRICAL SCHEMATIC

REV. E
ECO-026468
WP4G1+
MCL NY
250806

Mini-Circuits

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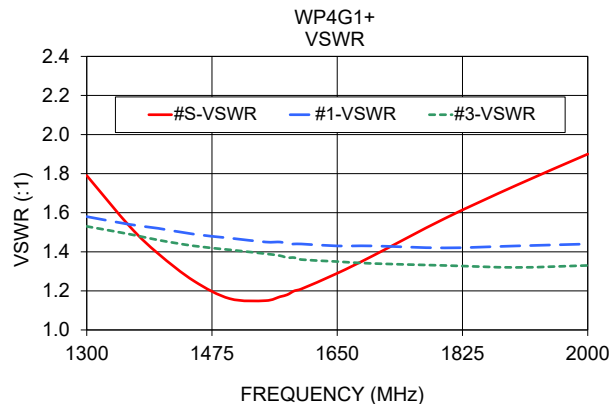
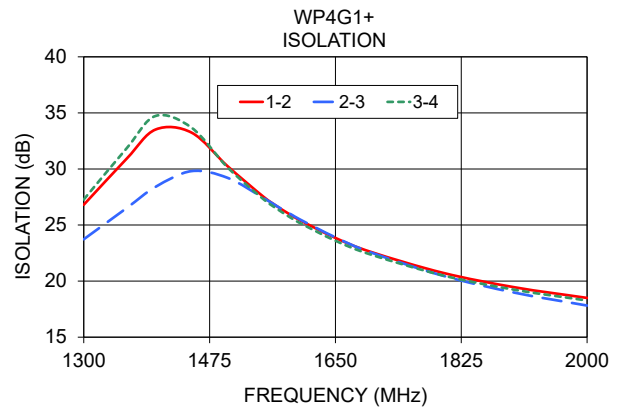
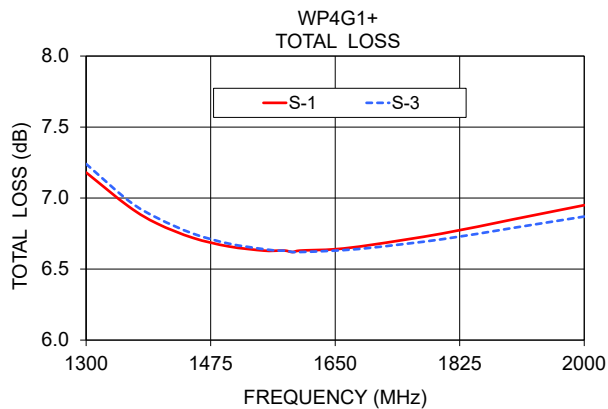
WP4G1+

4 Way-0° 50Ω 1300 to 2000 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						
1300.00	7.18	7.31	7.24	7.11	0.20	26.81	23.73	27.28	1.41	1.79	1.58	1.55	1.53	1.54
1360.00	6.94	7.05	6.98	6.86	0.19	30.94	26.53	31.87	1.19	1.53	1.54	1.51	1.49	1.50
1400.00	6.82	6.93	6.86	6.75	0.18	33.52	28.41	34.73	1.03	1.39	1.52	1.48	1.46	1.48
1450.00	6.72	6.82	6.75	6.65	0.17	33.24	29.81	33.68	0.88	1.25	1.49	1.45	1.43	1.45
1500.00	6.66	6.75	6.68	6.59	0.16	30.25	29.21	30.14	0.87	1.16	1.47	1.43	1.41	1.43
1550.00	6.63	6.71	6.64	6.56	0.15	27.52	27.41	27.30	0.92	1.15	1.45	1.41	1.39	1.41
1570.00	6.63	6.70	6.63	6.55	0.15	26.62	26.63	26.39	0.92	1.17	1.45	1.40	1.38	1.41
1580.00	6.63	6.70	6.63	6.55	0.14	26.21	26.25	25.97	0.93	1.18	1.44	1.39	1.37	1.41
1590.00	6.62	6.69	6.62	6.55	0.14	25.82	25.89	25.57	0.93	1.20	1.44	1.39	1.37	1.40
1600.00	6.63	6.69	6.62	6.55	0.14	25.45	25.52	25.20	0.95	1.21	1.44	1.39	1.36	1.40
1650.00	6.64	6.70	6.63	6.57	0.13	23.85	23.90	23.60	1.14	1.29	1.43	1.37	1.35	1.39
1700.00	6.67	6.71	6.65	6.60	0.12	22.59	22.54	22.35	1.36	1.38	1.43	1.36	1.34	1.39
1800.00	6.75	6.77	6.71	6.68	0.09	20.73	20.47	20.50	1.73	1.57	1.42	1.35	1.33	1.39
1900.00	6.85	6.85	6.79	6.78	0.07	19.44	18.96	19.22	2.09	1.74	1.43	1.35	1.32	1.39
2000.00	6.95	6.94	6.87	6.89	0.08	18.50	17.82	18.27	2.40	1.90	1.44	1.35	1.33	1.40

1. Total Loss = Insertion Loss + 6 dB 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

