



Mini-Circuits

MMIC SURFACE MOUNT

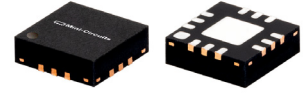
Power Splitter/Combiner

GP2X+

2 Way-0° 50Ω 2900 to 6200 MHz

FEATURES

- Wide bandwidth, 2900 to 6200 MHz
- Excellent amplitude unbalance, 0.05 dB typ.
- Good phase unbalance, 3 deg. typ.
- Small size, 0.118"x0.118"x0.035"
- 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

- WIMAX
- ISM
- Instrumentation
- Radar
- WLAN
- Satellite communications

ELECTRICAL SPECIFICATIONS AT 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units
Frequency Range		2900		6200	MHz
Insertion Loss* (above 3.0 dB)	2900-6200	—	0.6	1.5	dB
Isolation	2900-6200	15	24	—	dB
Amplitude Unbalance	2900-6200	—	—	0.3	dB
Phase Unbalance	2900-6200	—	—	9.0	deg.
VSWR (Port S)	2900-6200	—	1.2	—	:1
VSWR (Ports 1,2)	2900-6200	—	1.2	—	

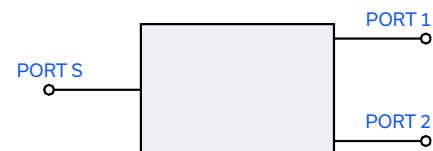
* De-embedded from demo board loss.

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	0.75W max.

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

ELECTRICAL SCHEMATIC



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ECO-015315
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MCL NY
220906

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GP2X+



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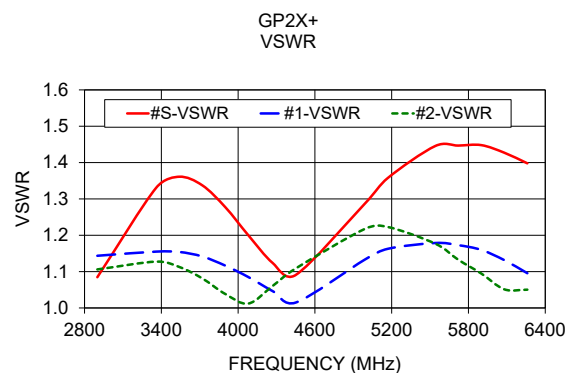
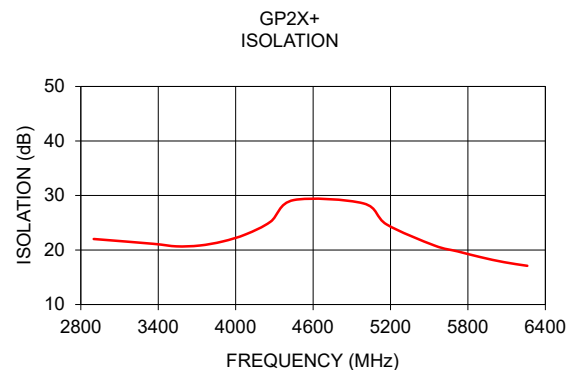
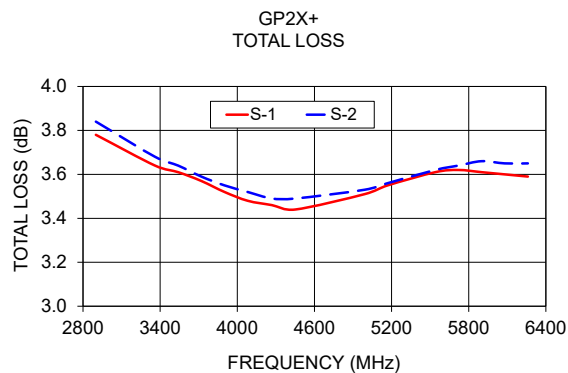
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2 Way-0° 50Ω 2900 to 6200 MHz

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
	S-1	S-2						
2900.00	3.78	3.84	0.06	22.02	2.44	1.08	1.14	1.11
3360.00	3.64	3.68	0.04	21.14	2.92	1.33	1.16	1.13
3540.00	3.61	3.64	0.03	20.67	3.08	1.36	1.15	1.11
3720.00	3.57	3.59	0.03	20.82	3.20	1.34	1.14	1.08
3900.00	3.52	3.55	0.02	21.57	3.30	1.28	1.12	1.04
4080.00	3.48	3.52	0.03	22.89	3.42	1.20	1.09	1.01
4270.00	3.46	3.49	0.04	25.19	3.58	1.12	1.05	1.06
4450.00	3.44	3.49	0.04	29.16	3.77	1.09	1.01	1.11
4990.00	3.51	3.53	0.02	28.55	4.38	1.29	1.13	1.22
5170.00	3.55	3.56	0.01	24.69	4.58	1.36	1.16	1.22
5540.00	3.61	3.62	0.01	20.83	4.94	1.45	1.18	1.18
5720.00	3.62	3.64	0.03	19.75	5.14	1.45	1.17	1.13
5900.00	3.61	3.66	0.05	18.68	5.49	1.45	1.16	1.09
6080.00	3.60	3.65	0.05	17.77	5.73	1.43	1.13	1.05
6260.00	3.59	3.65	0.05	17.10	6.01	1.40	1.10	1.05

1. Total Loss = Insertion Loss + 3dB splitter loss.



ESD RATING

Human Body Model (HBM): Class 1A (250 to < 500V) in accordance with ANSI/ESD STM 5.1 - 2001

Machine Model (MM): Class M2 (100V to < 250V) in accordance with ANSI/ESD STM 5.2 - 1999

NOTES

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- 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

