

Surface Mount

Low Noise Amplifier

TAMP-362GLN+

50Ω

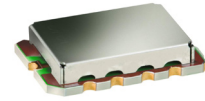
3300 to 3600 MHz

Features

- Ultra low noise figure, 0.9 dB typ.
- Output power, up to +16 dBm typ.
- Good output IP3, 29 dBm typ.
- Good return loss
- Unconditionally stable

Applications

- WiMAX
- Defence system radar
- Base transceiver station, tower mounted amplifier, repeater
- General purpose low noise amplifier



CASE STYLE: JQ1382
PRICE: \$14.95 ea. QTY (5-49)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

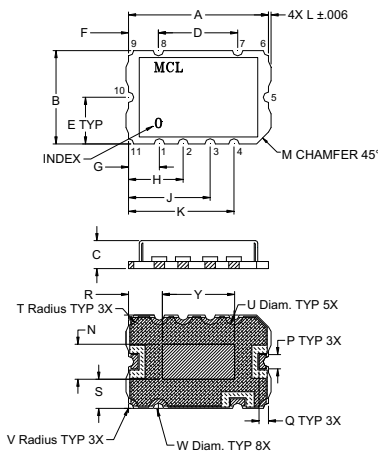
Electrical Specifications at 25°C

Parameter	Condition (MHz)	Min.	Typ.	Max.	Units
Frequency Range		3300		3600	MHz
Noise Figure	3300 - 3600		0.9	1.2	dB
Gain	3300 - 3600	18	20		dB
Gain Flatness	3300 - 3600		± 0.3	± 0.6	dB
Output Power at 1dB compression	3300 - 3600	13	16		dBm
Output third order intercept point (OIP3)	3300 - 3600		29		dBm
Input VSWR	3300 - 3600		1.3		:1
Output VSWR	3300 - 3600		1.3		:1
DC Supply Voltage			5.0		V
Supply Current			100	140	mA

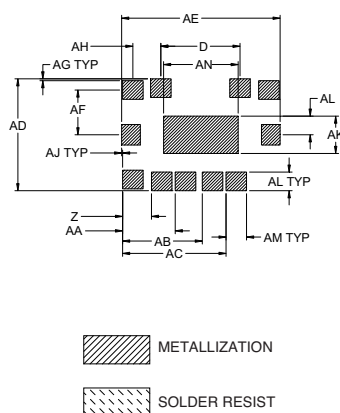
Pin Connections

RF IN	10
RF OUT	5
V+	7
GROUND	1,2,3,4,6,8,9,11

Outline Drawing



PCB Land Pattern

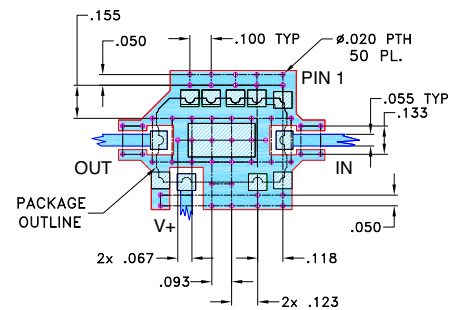


Maximum Ratings

Parameter	Ratings
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Operating Voltage	5.5 V
Input RF Power (no damage)	+15 dBm
Power Consumption	500 mW

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

Demo Board MCL P/N: TB-468+ Suggested PCB Layout (PL-293)



NOTES:

1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .030" ± .002; COPPER 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
 - DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
 - DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U
.591	.394	.118	.335	.197	.126	.130	.230	.344	.445	.011	.050	.148	.060	.040	.143	.123	.042	.084
15.0	10.0	3.0	8.5	5.0	3.2	3.3	5.85	8.75	11.3	.28	1.27	3.75	1.52	1.02	3.63	3.13	1.07	2.13
V	W	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AJ	AK	AL	AM	AN	wt.	
.022	.044	.305	.122	.222	.337	.437	.472	.669	.189	.008	.118	.004	.158	.079	.087	.315	grams	
.56	1.12	7.75	3.1	5.65	8.55	11.1	12.0	17.0	4.8	.20	3.0	.10	4.0	2.0	2.2	8.0	0.8	



For detailed performance specs & shopping online see web site

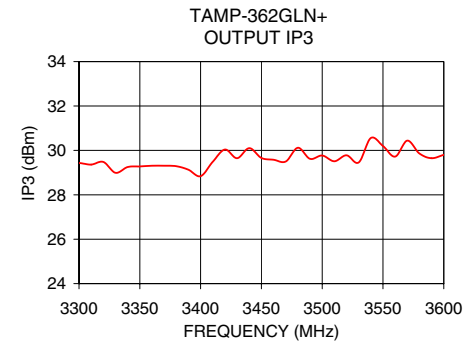
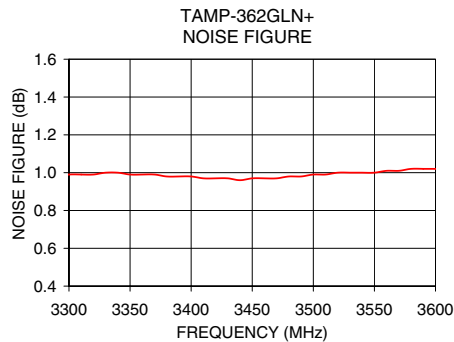
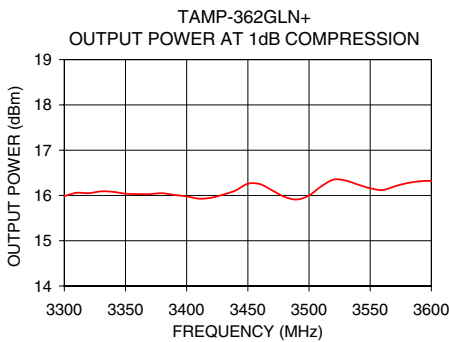
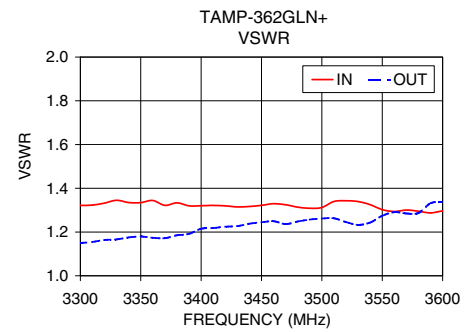
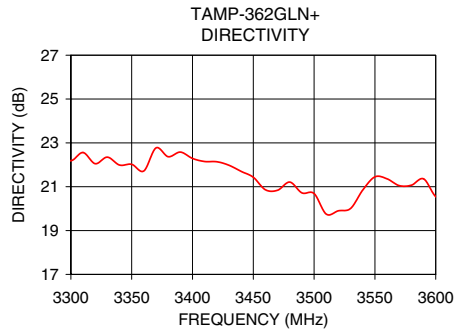
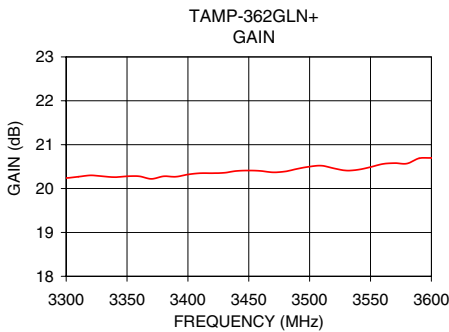
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine

Provides ACTUAL Data Instantly at minicircuits.com

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp.

REV. OR
M120783
TAMP-362GLN+
EDR-9679/8F1
RAV
090924
Page 1 of 2

FREQUENCY (MHz)	GAIN (dB)	DIRECTIVITY (dB)	VSWR IN (:1)	VSWR OUT (:1)	NOISE FIGURE (dB)	P. OUT @ 1dB COMPR. (dBm)	OUTPUT IP3 (dBm)
3300.00	20.24	22.19	1.32	1.15	0.99	15.99	29.43
3320.00	20.30	22.05	1.33	1.16	0.99	16.05	29.48
3330.00	20.28	22.35	1.35	1.17	1.00	16.09	28.99
3350.00	20.28	22.02	1.33	1.18	0.99	16.04	29.28
3360.00	20.28	21.72	1.34	1.17	0.99	16.03	29.31
3380.00	20.28	22.37	1.33	1.19	0.98	16.05	29.29
3400.00	20.32	22.29	1.32	1.21	0.98	15.98	28.84
3410.00	20.35	22.15	1.32	1.22	0.97	15.93	29.49
3430.00	20.36	21.98	1.31	1.23	0.97	16.02	29.65
3450.00	20.41	21.43	1.32	1.24	0.97	16.26	29.66
3470.00	20.37	20.84	1.32	1.24	0.97	16.11	29.50
3480.00	20.39	21.21	1.31	1.25	0.98	15.97	30.12
3500.00	20.50	20.69	1.31	1.26	0.99	16.00	29.77
3520.00	20.46	19.90	1.34	1.25	1.00	16.35	29.78
3530.00	20.41	20.01	1.34	1.23	1.00	16.33	29.46
3550.00	20.49	21.45	1.30	1.27	1.00	16.16	30.20
3560.00	20.56	21.36	1.29	1.29	1.01	16.12	29.72
3580.00	20.57	21.07	1.30	1.29	1.02	16.27	29.86
3590.00	20.69	21.36	1.29	1.33	1.02	16.31	29.65
3600.00	20.70	20.55	1.30	1.34	1.02	16.32	29.80



For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicircuits.com

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet 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/MCLStore/terms.jsp.