

Surface Mount

Low Noise Amplifier

TAMP-362LN+

50Ω

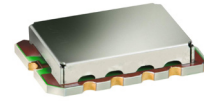
3300 to 3600 MHz

Features

- Ultra low noise figure, 0.9 dB typ.
- Output power, up to +11 dBm typ.
- Good output IP3, 25 dBm typ.
- Low current consumption
- 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: \$10.95 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.

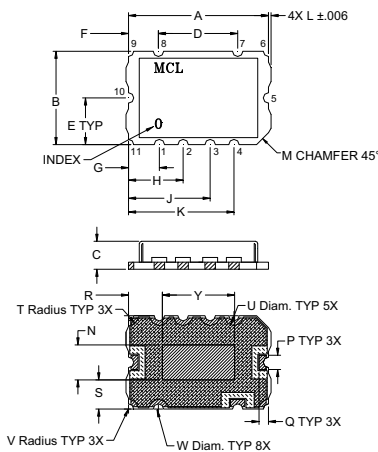
Electrical Specifications at 25°C

Parameter	Condition (MHz)	Min.	Typ.	Max.	Units
Frequency Range		3300		3600	MHz
Noise Figure	3300 - 3600		0.9	1.2	dB
Gain	3300 - 3600	10	12		dB
Gain Flatness	3300 - 3600		± 0.4	± 0.8	dB
Output Power at 1dB compression	3300 - 3600	9	11		dBm
Output third order intercept point (OIP3)	3300 - 3600		+25		dBm
Input VSWR	3300 - 3600		1.3		:1
Output VSWR	3300 - 3600		1.3		:1
DC Supply Voltage			5.0		V
Supply Current			20	30	mA

Pin Connections

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

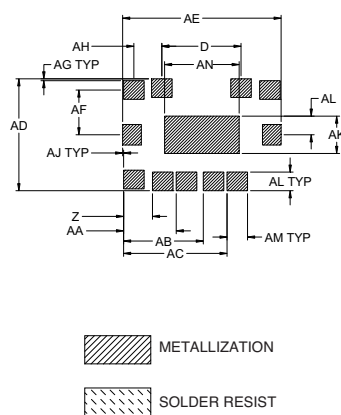
Outline Drawing



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	

PCB Land Pattern

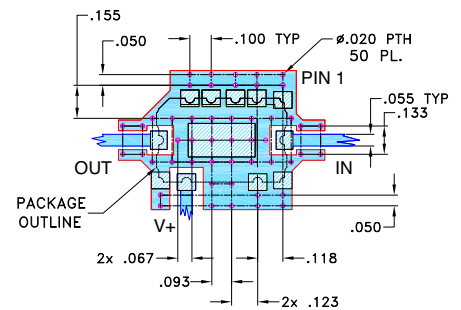


Maximum Ratings

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)	0 dBm
Power Consumption	165 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



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IF/RF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

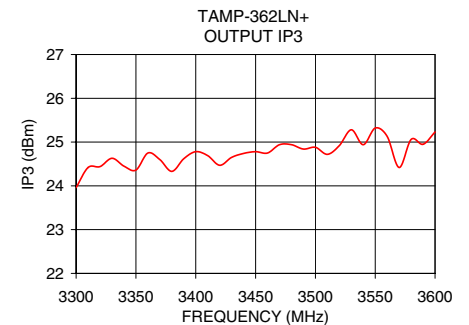
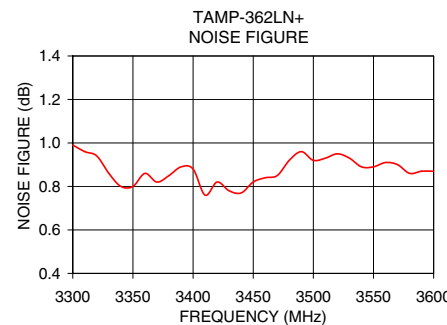
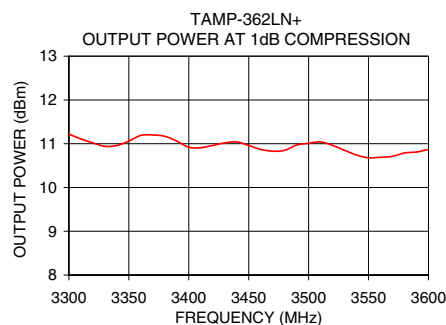
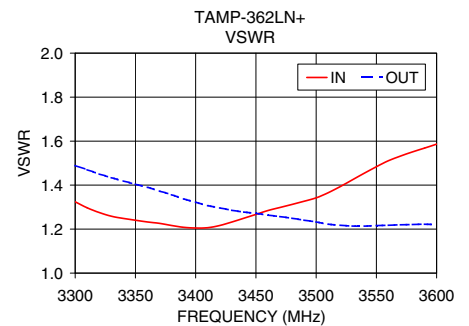
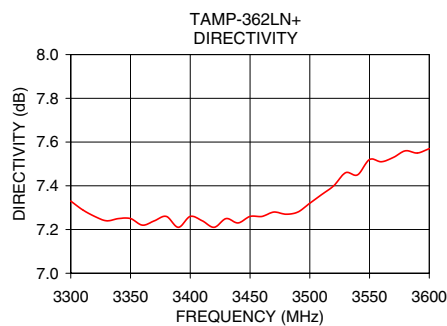
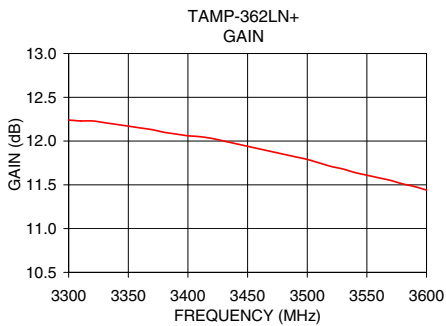


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FREQUENCY (MHz)	GAIN (dB)	DIRECTIVITY (dB)	VSWR IN (:1)	VSWR OUT (:1)	NOISE FIGURE (dB)	P. OUT @ 1dB COMPR. (dBm)	OUTPUT IP3 (dBm)
3300.00	12.24	7.33	1.32	1.49	0.99	11.22	23.96
3320.00	12.23	7.26	1.28	1.45	0.94	11.02	24.44
3340.00	12.19	7.25	1.25	1.42	0.80	10.96	24.45
3360.00	12.15	7.22	1.23	1.39	0.86	11.19	24.75
3380.00	12.10	7.26	1.22	1.36	0.85	11.17	24.33
3400.00	12.06	7.26	1.21	1.32	0.88	10.92	24.78
3420.00	12.03	7.21	1.22	1.30	0.82	10.96	24.47
3440.00	11.97	7.23	1.25	1.28	0.77	11.04	24.74
3460.00	11.91	7.26	1.28	1.26	0.84	10.87	24.75
3480.00	11.85	7.27	1.31	1.25	0.92	10.85	24.94
3470.00	11.88	7.28	1.30	1.26	0.85	10.83	24.94
3480.00	11.85	7.27	1.31	1.25	0.92	10.85	24.94
3490.00	11.82	7.28	1.33	1.24	0.96	10.97	24.84
3500.00	11.79	7.32	1.34	1.23	0.92	11.01	24.88
3510.00	11.75	7.36	1.37	1.22	0.93	11.04	24.72
3520.00	11.71	7.40	1.39	1.22	0.95	10.96	24.92
3540.00	11.64	7.45	1.45	1.21	0.89	10.74	24.94
3560.00	11.58	7.51	1.51	1.22	0.91	10.69	25.13
3580.00	11.51	7.56	1.55	1.22	0.86	10.79	25.06
3600.00	11.44	7.57	1.59	1.22	0.87	10.87	25.23



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