

WLNA-TO-8D Series LNA
Product Data Sheet

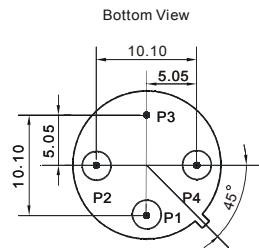
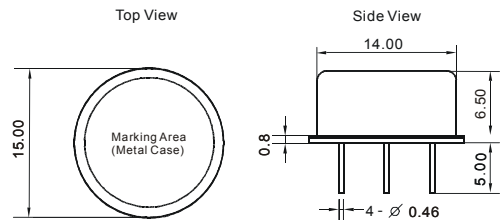
INNOVATION BEYOND IMAGINATION

Features

- Wide Frequency Range from 1MHz to 15GHz
- Small Size, Light Weight, Compatible Package
- Superior Stability in Response to Ambient Temperature and Load Variations
- Extremely Linear and Accurate Tuning
- High Tuning Speed
- Excellent Low Phase Noise Characteristics(C/N,S/N)
- High Performance and High Reliability
- Custom Designs Available



TO-8D Package Chart:



Unit:mm

PIN CONNECTIONS:
 P1-----Vcc
 P2-----Vt
 P3-----GND
 P4-----RF OUTPUT

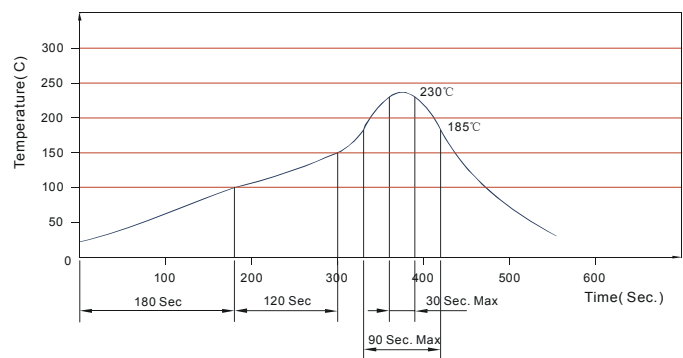
Applications

- Wireless Communication and Test Equipment
- Radar Receivers and Satellite Systems
- Base Stations
- Analog and Digital Radio Systems
- Industrial Controls and Noise Measurements

Pin Alignments:

Pin Alignments:	
1	Vcc
2	Vt
3	Ground
4	RF Output

Solder Profile



WLNA-TO-8D Series LNA

Product Data Sheet

INNOVATION BEYOND IMAGINATION

Specification:

Parameter	Symb.	Condition	Min.	Typ.	Max.	Unit	Note
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Absolute Maximum Ratings

Operating Temper.	Ts		-55		+85	°C	
Supply Voltage	Vc		0		15	V	
Tuning Voltage	Vc		0		20	V	

Electrical

Frequency Range	FL				5	MHz	Vt=3.0V	All parameters for 5MHz to 50MHz
	FU		50			MHz	Vt=17.0V	
Supply Voltage	Vcc			15.0		V	±0.30V	
Supply Current	Icc				20	mA	Vcc=12V	
Output Load				50		Ω		
Output Power			+15			dBm		
2 nd Output Power						dBm	Optional	
Output Ripple					±2.0	dB	N/A	
Chann.Separation			30			dB		
Tuning Voltage	Vt		3.0		17.0	V		
Tuning Sensitivity			32	40	48	MHz/V		
Input Impedance		Vt=0V,@1MHz	10			MΩ		
Pushing Figure		Vcc=12V,Ref=12V			±2.0	MHz/V		
Pulling Figure		VSWR=2,Ref=50 Ω			±2.0	MHz	For all Phase	
SSB Phase Noise		1KHz		-80		dBc/Hz		
		10KHz		-110				
		100KHz		-130				
Harmonics Below Carrier					-30	dBc	2 nd ,3 rd Harmonics	
Spurious Below Carrier					-70	dBc		
Operating Temp.	To		-55		+85	°C		
Package		Φ15X6.5				mm		

Environmental and Mechanical

Temperature & Humidity	Per MIL-STD-883,Method 1010,Cond.B & MIL-STD-883, Method 1011,Cond.B
Mechanical Shock	Per MIL-STD-202,Method 213,Cond.E, 30G, 11 mS, 3 cycles each plane
Vibration	Per MIL-STD-883,Method 2007,Cond.A, 5G, 30Hz to 2000Hz, 6 hours
Thermal Shock	Per MIL-STD-883,Method 1011,Cond.A, -40°C 30M to +85°C 30M, 7 days
Soldering Condition	Leads temperature 260°C for 10s max , 230°C for 30s max, SMD profile

Electrical Connections

Pin Out	Pin 1-Vcc; Pin 2-Vt; Pin 3-GROUND; Pin 4-RF Output
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Creating a Part Number

WLNA-TO-8D [] - [] Frequency, MHz

Temperature Range

Code	Specification
A	0°C to 50°C
B	-10°C to 60°C
C	-20°C to 75°C
D	-30°C to 75°C
E	-40°C to 85°C
F	-45°C to 90°C

Supply Voltage

Code	Specification
5	5.0V±5%
8	8.0V±5%
12	12.0V±5%
	Other Options

Tuning Voltage

Code	Specification
TATB	AV to BV
	Other Options

Not all combinations are available.Consult Your Local Sales Offices.