



The **LBMA490/1.0/300K-A1** Low Noise Amplifier (LNA) is suitable for 460-525 MHz Band applications. The LNA employs Enhanced-mode PHEMT technology that provides high linearity and low noise for Wireless Communication purposes. The module has an embedded band pass filter for greater out-of-band rejection.

Other bands are available.



Model: LBMA490/1.0/300K-A1

1. Electrical Characteristics		
Item	Value	Note
Frequency Range	460 ~ 525 MHz	
Gain	31 ± 1	
Gain Flatness	±0.5 dB	Over Freq. Range
Noise Figure	2.5 dB (Max.)	
1dB Compression	+18 dBm (Typ.)	
3rd. Order Intercept Point	+30 dBm (Typ.)	2 CW tones @ 0 dBm
Input VSWR	≤ 1.38	
Output VSWR	≤ 2	
Rejection @ DC to 382 MHz	-60 dBc (Min.)	
Rejection @ 598 to 657 MHz	-60 dBc (Min.)	
Rejection @ 658 to 670 MHz	-65 dBc (Min.)	
Maximum Input (No Damage)	+10 dBm	
DC Input Voltage / Current	15 VDC / 0.16 A (Typ.)	DC Input Voltage / Current @ Pout +18 dBm
Input/output Impedance	50 Ω	

2. Mechanical Characteristics	
RF IN/OUT Connector	SMA 4 Holes Female
DC Input	#8 Feed Thru
Dimensions	3.04" x 3.754" x 0.83"

3. Environment Characteristics	
Operating Temperature	-35°C ~ +85°C

Revision History			
REV	Reason to Change	Date	Initialed by

4. Outline Drawing

