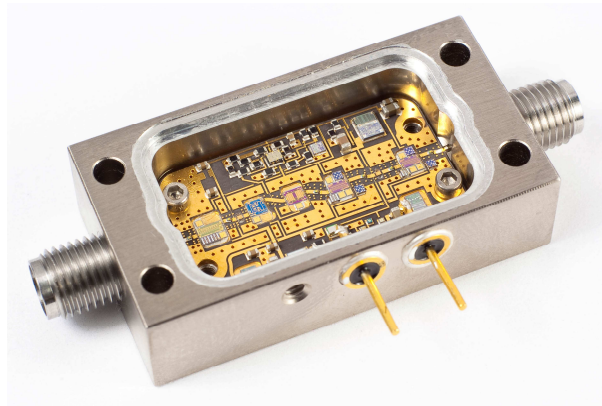




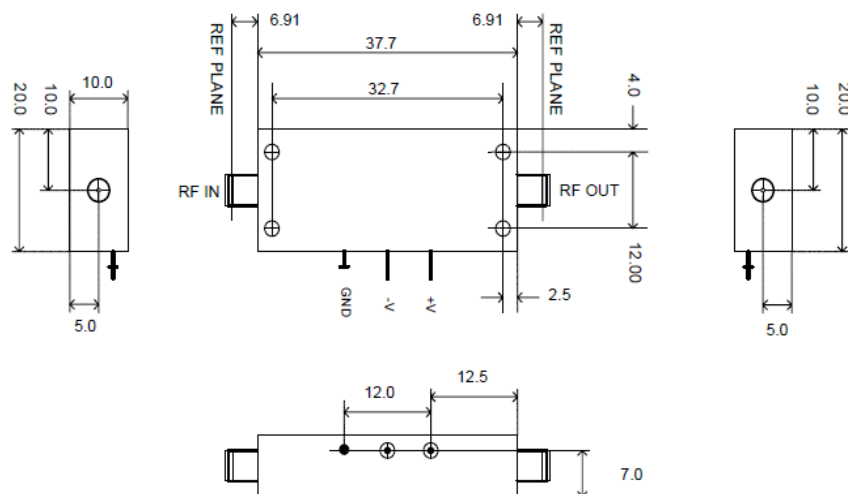
# Linwave LWA90206

## High Gain Broadband Amplifier, 18 to 40 GHz



Linwave produces a range of multi-octave broadband and ultra-broadband high gain amplifiers, each of which covers a sub band in the frequency range 2 to 40 GHz. These devices use GaAs MMIC technology to meet specific customer requirements in terms of gain and bandwidth. Both standard and custom parts are available.

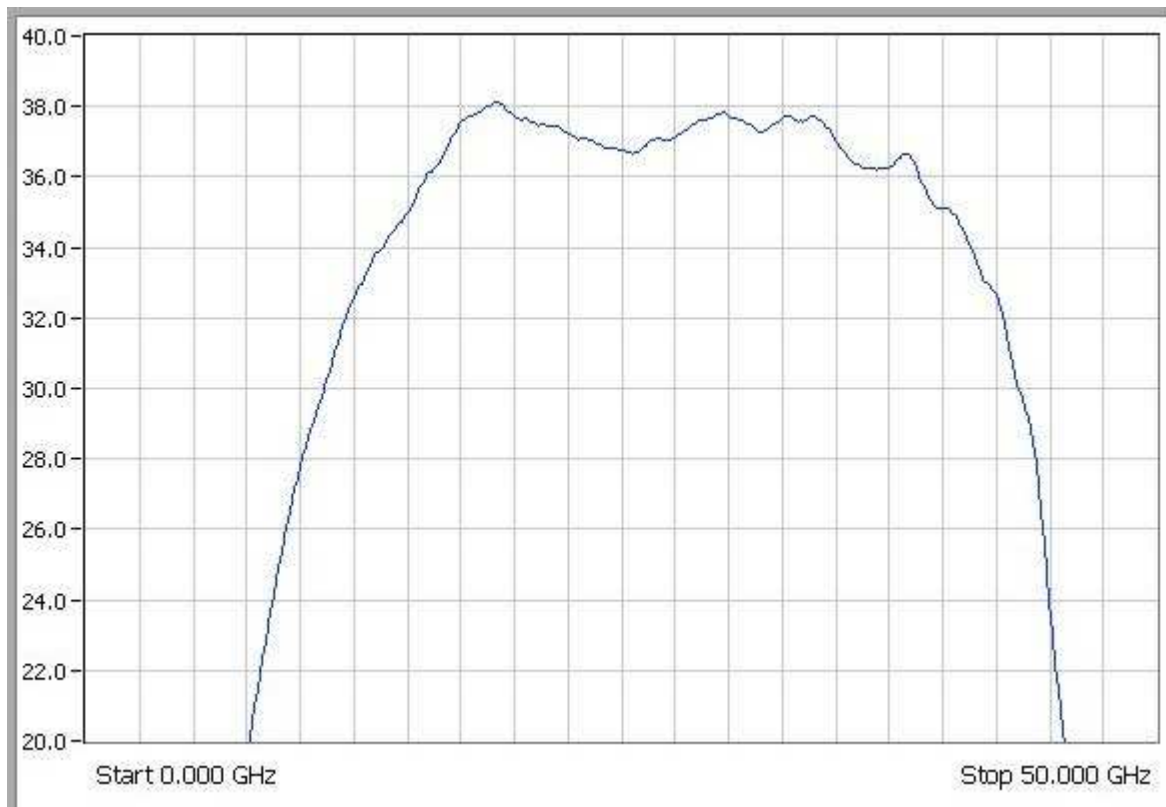
The LWA90206 provides a nominal small signal gain of 35dB with a gain variation of  $\pm 2$  dB across the band 18 to 40 GHz. The amplifier is housed in a hermetically sealed package suitable for use in harsh environments. The outline drawing is given below:



# Specification

Parameter	Value	Comment
Frequency Range (GHz)	18 to 40 GHz	
Small Signal Gain (dB)	35	
Gain Flatness (dB)	±1	At any given temperature
Output Power (P1dB) (dBm)	13	
Third order intercept (TOI) (dBm)	20	
Gain Stability over temp range (dB)	±2	
Noise Figure (dB)	<7	
Harmonics (dBc)	-15	
Spurious (dBc)	-60	
Positive Power Supply (V, A)	12/ 0.45	
Negative Power Supply (V, A)	-12/ 0.015	
Size LxWxD (mm)	40x20x10	
Operational Temperature Range (°C)	-40 to +85	
Sealing	Hermetic	
RF Connectors	K type female	

Small Signal Gain Plot for LWA90206



*Linwave Technology reserves the right to change this specification without notice*