

1850-1910 MHz Surface Mount High Linear Low Noise Amplifier

General Description

The NL00380 is a High Linear Low Noise Amplifier operating in 1850-1910 MHz frequency. The operating temperature is -30°C through $+85^{\circ}\text{C}$. This amplifier has been designed to offer “price-competitive, space-limited, easy-to-use” solution for design engineers in the mobile communication area. The amplifier is unconditionally stable for all impedance level. You can save design lead time, and manufacturing cost by adopting this pre-matched amplifier module.



Performance at 25°C

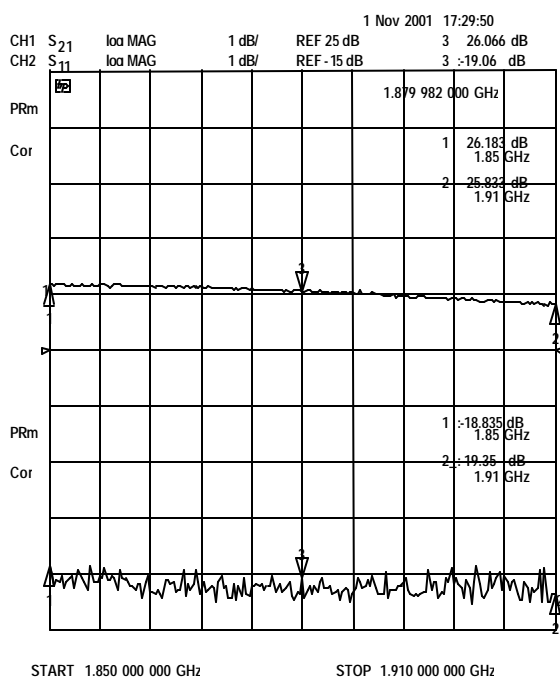
Parameter	Min.	Typ.	Max.	Units
Frequency	1850		1910	MHz
Gain	22	25		dB
Gain Flatness over operating frequency range			± 0.35	dB
Noise Figure		1.1	1.4	dB
Output Power at 1 dB Compression Point	15	18		dBm
Output Third Order Intercept Point with +5 dBm output power /tone	31	34		dBm
Input VSWR			1.5 : 1	
Output VSWR			1.5 : 1	
DC supply voltage (Vcc)		+6		V
Supplied Current			145	mA

Customized Designs: For custom designs, including both electrical and mechanical, please contact us at sales@nextec-rf.com.

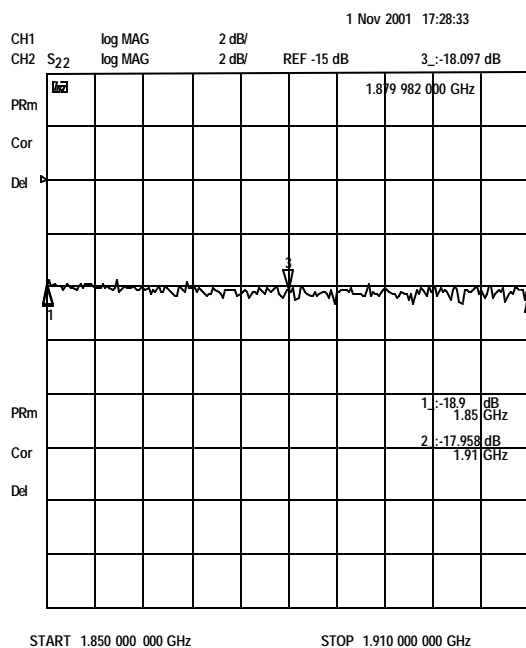
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Typical Test Data

Gain and Input Return Loss at 25 °C



Output Return Loss at 25 °C

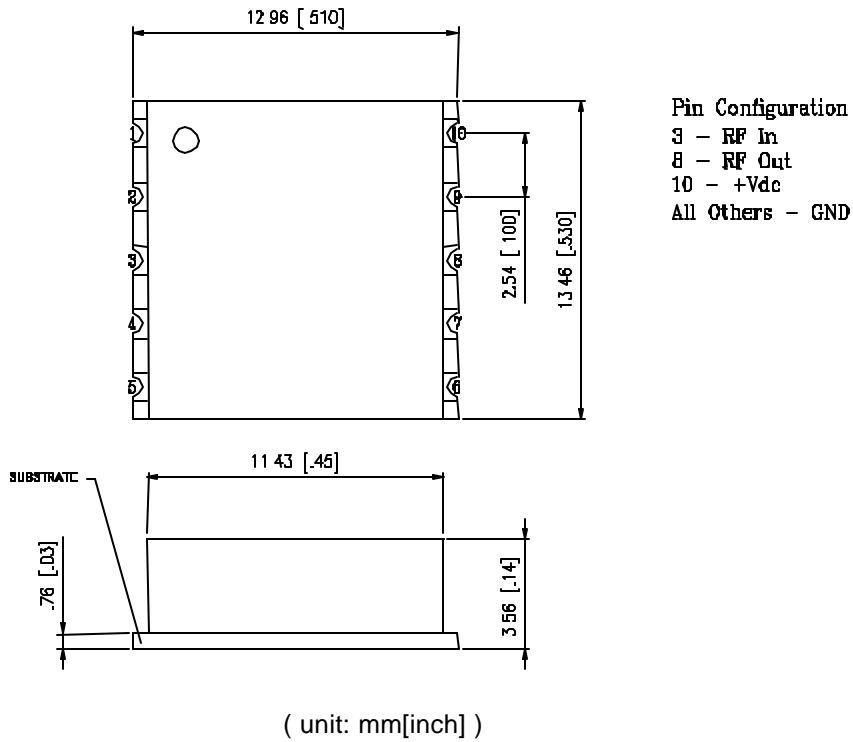


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April 10, 2003

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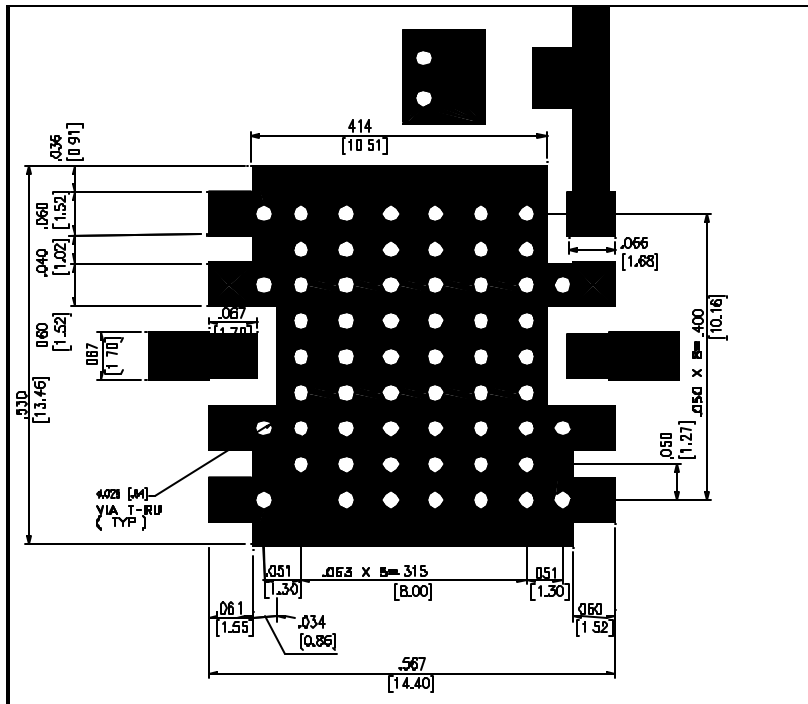
Outline Drawing



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Recommended Footprint



(unit: mm [inch])

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