



25KHz stability 4-L.O. Ku-Band PLL LNB

KEY FEATURES

AL4L0025 / AL4L0025F

- ◆ Output frequency 10.50-13.55 GHz
- ◆ Noise figure 0.8dB typ.
- ◆ High OIP3
- ◆ RoHS compliant
- ◆ Three year warranty



Frequency Band	Band 1	Band 2	Band 3	Band 4
Input frequency (GHz)	10.50-11.30	11.25-12.05	12.00-12.80	12.75-13.55
IF frequency (MHz)	950-1750	950-1750	950-1750	950-1750
L.O. (GHz)	9.55	10.3	11.05	11.8
L.O. control, DC in	13.0 V, tone-off	18.0 V, tone-off	13.0 V, tone-on	18.0 V, tone-on
General				
Gain	55 dB typ.	Gain variation	0.4 dB p-p	within 30 MHz
P1dB output	+15 dBm		4 dB p-p	all band
Noise figure	0.8 dB typ.		-73 dBc	@ 1 kHz
OIP3	+25 dBm	L.O. Phase noise	-78 dBc	@ 10 kHz
Output VSWR	2:1 (max)		-105 dBc	@ 100 kHz
L.O. radiation	-60 dBm (max)		-120 dBc	over 1 MHz
Image rejection	30 dB (min)	Tone signal	Frequency	22kHz +/- 4kHz
Current	300 mA		Amp.	0.6+/-0.2 V
			Cycle	50+/-10%
Input interface	WR-75	Output interface	"F" conn. 75 ohm or "N" conn. 50 ohm	
Temperature	Operating	-40 to +60 C	Storage	-50 to +80 C
Weight	500 g	Dimensions	120x61x40mm	4.8"x2.44"x1.6"

Mechanical Drawing

