



500KHz Stability C-Band DRO LNB

KEY FEATURES

ALS50500 / ALS50500N

- ◆ +/- 500KHz Stability
- ◆ Smallest package size and weight
- ◆ Lowest Noise Temp. and Phase Noise
- ◆ RoHS Compliant
- ◆ Three-year Warranty



Specifications

Input Frequency	3.4 - 4.2 GHz	Output Frequency	950 - 1750MHz
Conversion gain	62 dB (typ), 66 dB (max)	Gain flatness	4dB p-p over full temp
Input VSWR	2.5 : 1	Output VSWR	2.5: 1 typ.
Local Frequency	5.15GHz	L.O. stability over temp	+/- 500KHz
IF connector	F or N- type female	IF impedance	75 or 50 ohms
RF interface	WR - 229 Grooved	Stabilization and Start up Time	1 min (max)
Phase noise	See below	Noise Temp. @ 25 deg. C	15K Typ., 20K max.
Output 1 dB compression point	+5dBm min.	Gain Ripple	+/- 0.75dB (40MHz)
Spurious In-Band (No Signal)	-140dBm max.	Spurious In-Band @-10dBm Output	-55dBm (max)
Ext. ref. input (10MHz)	IF output connector	Image Rejection	-40dBc (min)
L.O. Leakage at Waveguide Input	-50dBm max.	Output L.O. Leakage	-40dBm (max)
Power supply	+12 - +24 VDC	Current	200mA (max)
Phase Noise	-70 dBc/Hz @ 100Hz	Storage temperature	-50C - +80C
	-80 dBc/Hz @ 1KHz	Weight (g)	500
	-85 dBc/Hz @ 10KHz	Operating temperature	-40C - +60C
	-95 dBc/Hz @ 100KHz	Dimensions (mm) (L/W/H)	93.3 x 99.6 x 71.5 (F) 95.3 x 99.6 x 71.5 (N)

Mechanical Drawing

