

# EXPLORER Series LNB



Dual-band LNB used in EXPLORER 8100 and 8120

Interface	Model	Specification
Input, Ku-band	Dual-band	WR75 waveguide
Output, IF	Dual-band	F-Connector (50 Ohm)
LO type	Dual-band	Locked to 10 MHz external reference over IF interface or ACU internal
LO frequencies	Dual-band	9.75, 10.75 GHz

Parameter	Condition / Remark	Unit	Min.	Typical	Max.
Input frequency range		GHz	10.7		12.75
Output (IF) frequency range		MHz	950		2150
VSWR	Input	-			2.0 : 1
	Output	-			1.7:1
Noise Figure	At 25°C	dB		0.8	
LO Stability	Over temp. range	kHz	-10	0	10
Gain		dB		60	
Gain (relative)	Over 500 MHz BW	dB	-2.0	0	2.0
Gain (relative)	Over 36 MHz BW	db	-0.5	0	0.5
External ref. freq. (input)	Nominel	MHz		10	
Power supply voltage	DC	V	11.0		19.0
Supply current	DC	mA			350
LO selection voltage	Voltage, low (L) (input)	V	11.0		14.0
	Voltage, high (H) (input)	V	16.0		19.0
Temperature range (ambient)	Operation	°C	-30		75
	Storage	°C	-40		85
Weight	Total	g			350
Dimensions (incl. connector) over all	L	mm			140
	W	mm			58
	H	mm			50

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Subject to change without further notice.