

KNS Universal LNB Specification Sheet





Main Features

- Ultra wide bandwidth (full Ku-Band)
- Ultra Small size
- Quad Band (4-LO)
- Low Noise Figure
- Ultra Low Phase Noise
- $\pm 5\text{kHz}$ Stability
- High IP3 (Option)
- LO frequency switching by DC input level(13/18V) and 22kHz Tone signal thru IF cable
- Separated LNB Controller Module supported

<i>Item</i>	<i>Parameters</i>	<i>Specifications</i>	<i>Notes</i>	
Electrical Spec.	RF Frequency	10.7 ~ 12.75 GHz		
	LO Frequency	9.75, 10.0, 10.25, 10.5, 10.6, 10.75, 11.05, 11.2, 11.25, 11.3 GHz	Select max. 4 LO frequency	
	IF Frequency	950 ~ 1700 MHz		
	Phase Noise	@ 1 kHz	-70 dBc	
		@ 10 kHz	-80 dBc	
		@ 100 kHz	-95 dBc	
		@ >1 MHz	-120 dBc	
	LO stability	±5 kHz	over temp. range	
	Gain	65 dB	typ.	
	Gain variation	±0.4 dB	within 30 MHz	
		±4 dB	max.	
	Noise Figure	0.8 dB	typ.	
	In/Out VSWR	2:1	max.	
	Band Switch Configuration	Band1	VDC 11.5~14.0V / Tone OFF	
		Band2	VDC 11.5~14.0V / Tone ON	
		Band3	VDC 16.0~19.0V / Tone OFF	
Band4		VDC 16.0~19.0V / Tone ON		
DC Input Voltage	Band1,2	11.5 ~ 14.0 V		
	Band3,4	16.0 ~ 19.0 V		
Current Consumption	300 mA	typ.		
Requirements for 22kHz Tone	Freq.	22kHz ± 4 kHz		
	Amp.	0.6 ± 0.2V		
	Duty	50% ± 10%		

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Mechanical Spec.	Input	WR-75 with Groove	
	Output (waterproof)	F-connector N (Optional)	75 ohm (50 ohm)
	Dimensions	147.4(L) x 43.8(W) x 46.6 (H) mm	
	Weight	310g	
Thermal Spec.	Operating temperature	-30 ~ +70 °C	
	Storage temperature	-40 ~ +80 °C	

Mechanical Drawing

<Outline>

