



visiblewave®

VHK6 HYBRID LNB

6-Output (2x wideband, 4x Quad) with bracket

Wideband Technical Specification

Input Frequency	10.7 ~ 12.75GHz	Gain Flatness Over 26MHz	+/-0.5dB (typ.)
Output Frequency	Vertical: 290 ~ 2340MHz	Gain Variation	7dB (max.) @ full band
	Horizontal: 290 ~ 2340MHz	Cross Polar Isolation	25dB (typ.)
L.O. Frequencies	10.41GHz	Image Rejection	40dB (min)
L.O. Stability	+/-0.5MHz (max) @ Room Temp.	Current Consumption	0.85W (max.) (70mA @ +12VDC)
	+/-1 MHz (max) @ -40°C ~ +60°C	Power Voltage	9 - 19VDC
L.O. Phase Noise	-50dBc/Hz @ 1kHz (max.)	Connector Type	75Ω female F-connector
	-75dBc/Hz @ 10kHz (max.)	Output Spurious	<-60dBm
Noise Figure	-100dBc/Hz @ 100kHz (max.)	Operating Temp.	-40°C ~ +60°C
	0.1dB (typ.)	RED Compliance	EN 303 372-1
Conversion Gain	50dB (min) / 60dB (max)		

Legacy Technical Specification

Input Frequency	low band: 10.7 ~ 11.7GHz	Gain Flatness Over Full Band	3dB P-P (typ.), 5dB P-P (typ.)	
	high band: 11.7 ~ 12.75GHz	Gain Flatness Over 26MHz	+/- 0.5dB P-P (typ.)	
Feedhorn - Linear	Optimised for offset dish	Gain Flatness Over 300MHz	+/- 4dB P-P (typ.)	
Output Frequency Output 1, 2, 3, 4	low band: 950 ~ 1950 MHz	1.7GHz	-50dB (typ.) -47dB (max.)	
	high band: 1100 ~ 2150MHz	Noise Figure	0.3dB (typ.), 1.0dB (max.)	
Output 1,2,3,4 VSWR (950 - 2150 MHz)	Ratio 2.0:1 (typ.), 2.5:1 (max.)	Cross Polar Isolation	18dB (min.), 20dB (typ.)	
L.O. Frequencies	9.75 / 10.6 GHz	Image Rejection	37dB (min), 40dB (typ.)	
L.O. Stability	0.5 ~ 1.0 MHz	Current Consumption	120mA (typ.), 140mA (max.)	
L.O. Phase Noise	-55dBc/Hz @ 1kHz (max.) -75dBc/Hz @ 10kHz (max.) -90dBc/Hz @ 100kHz (max.)	Operating Voltage & Band Switching	Vertical	11.5 - 14.5VDC
			Horizontal	15.5 - 19VDC
			Low-Band	0KHz
Operating Temperature	-40°C ~ +60°C	High-Band	18 - 26KHz	
Conversion Gain	56 ~ 63dB @ 25°C	Connector Type	75Ω female F-connector	
	54 ~ 60dB @ -40°C ~ 60°C	RED Compliance	EN 303 372-1	

- Outputs for Sky Q™ and Sky HD™ reception
- Low noise, high stability and isolation
- Supplied with Mk. 4 dish bracket

Finished in grey

Part No.
VHK6



Supplied with a Sky™ compatible bracket including built-in spirit level

