

# UNIVERSAL SINGLE LNBF



**VS-US02**



*Your Trusted Source for Satellite Equipment*

- **Single Output Switchable**
- **Dual Polarization**
- **HD Compliant**

ITEM	SPECIFICATION				CONDITION
	MIN.	TYP.	MAX.	UNIT	
Input Frequency	10.7		11.7	GHz	Low-Band
	11.7		12.75	GHz	High-Band
Output Frequency	950		1950	MHz	Low-Band
	1100		2150	MHz	High-Band
L.O. Frequency		9.75		GHz	Low-Band
		10.6		GHz	High-Band
L.O. Temperature Drift			±1	MHz	Initial Accuracy (@ 25 °C)
			±3	MHz	-40°C~+60°C
L.O. Phase Noise			-60	dBc/Hz	@1kHz Offset at Offset
			-80		@10kHz Offset at Offset
			-100		@100kHz Offset at Offset
Noise Figure	0.3	0.6		dB	@ 25 °C (.6 typical)
Conversion Gain	62	66	70	dB	@ 25 °C
Gain Flatness Characteristics		5		dBpp	Over Operating Band
		1		dB	with bandwidth 27MHz
1dB Output Gain Compression	0	+3		dBm	
L.O. Spurious	55			dBc	
Image Rejection		40		dB	
Output VSWR		2.0:1			
Cross-Pole Isolation		20		dB	
Return Loss at Output		10		dB	
Supply Voltage and Control signals	10.5		14.5	V	Vertical Polarization
	15.5		21	V	Horizontal Polarization
Band Switching Voltage	18	22	26	kHz	Frequency
	0.4	0.6	0.8	V(pp)	Amplitude
Current consumption		90	110	mA	
Load Impedance		75		ohm	
Reflector Type	Offset				
F/D Ratio		0.6			
Feedhorn Mounting	40 mm (Standard Size)				
Operation Temperature	-40		+60	° C	
Storage Temperature	-50		+80	° C	
Output Connector	75Ω F type				

LNBF\_VS-US02\_REV004

Specifications are subject to change without notice

sales@vikingsatcom.com • www.vikingsatcom.com

T: 517.629.3000 • F: 517.629.2379 • 704 North Clark Street • Albion, MI