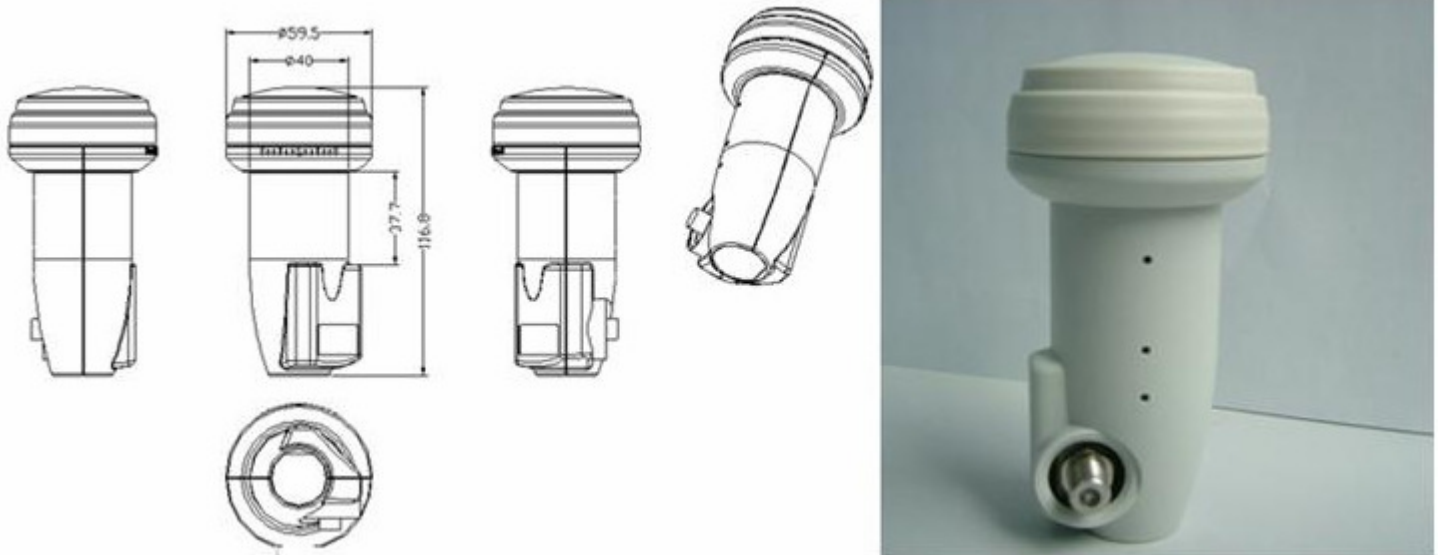


Professor Technology Co., Ltd.

Satellite TV LNB Universal Single LNB

CPL-NB12S

for Central & South America type



CPL-NB12S Mechanical Drawing

Specification for Satellite TV Universal Single LNB

No.	Item	Specification				Condition
		Min.	Typ.	Max.	Unit	
1	Input Frequency	10.7		11.7	GHz	Low-Band
		11.7		12.75	GHz	High-Band
2	Output Frequency	950		1950	MHz	Low-Band
		1100		2150	MHz	High-Band
3	L.O. Frequency		9.75		GHz	Low-Band
			10.6		GHz	High-Band
4	L.O. Temperature Drift			±1	MHz	Initial Accuracy (@ 25 °C)
				±3	MHz	-40°C ~ +60°C
5	L.O. Phase Noise			-60	dBc	@1kHz Offset
				-80	/Hz	@10kHz Offset
				-100		@100kHz Offset
6	Noise Figure		0.6	0.8	dB	@ 25 °C
7	Conversion Gain	50	56	62	dB	@ 25 °C
8	Gain Flatness Characteristics		5		dBpp	Over Operating Band
			±0.5		dBpp	

9	1dB Output Gain Compression	0			dBm	
10	L.O. Spurious			-60	dBm	
11	Image Rejection	40			dB	
12	Output VSWR		2.0:1			
13	Cross-Pole Isolation	20	25		dB	
14	Return Loss at Output		10		dB	
15	Polarization Switching Voltage	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
16	Current consumption		90	110	mA	
17	Load Impedance		75		ohm	
18	Reflector Type	Offset				
19	F/D Ratio		0.6			
20	Feedhorn Mounting	40 mm (Standard Size)				
21	Operation Temperature	-40		+60	°C	
22	Storage Temperature	-50		+80	°C	
23	Output Connector	75 Ω F type				