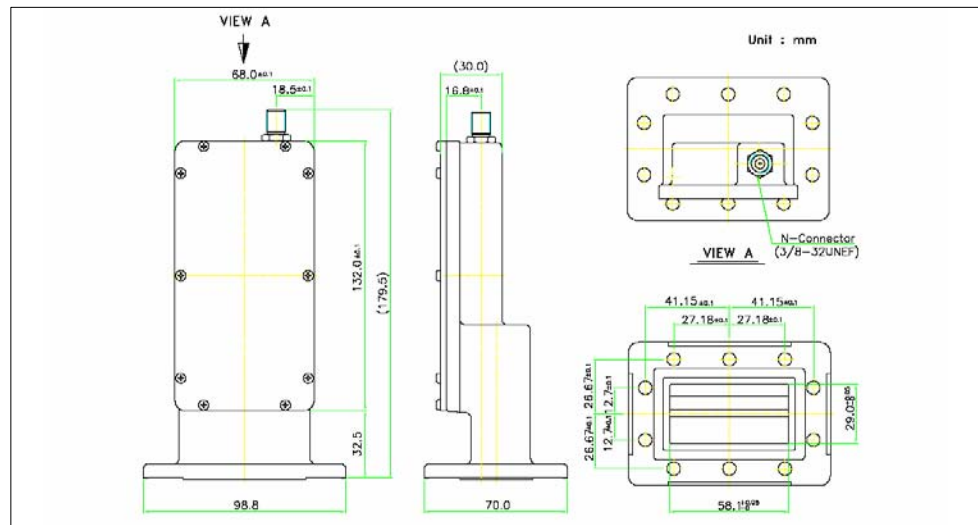


# C-Band Ext. Ref. PLL LNB Applications

## SM-300X

### Outline Drawing



### Model No & Frequency, Stability

Model No	Input Freq.(GHz)	Output Freq.(MHz)	L.O Freq.
SM-300X	3.4 – 4.2	950 – 1750	5.15GHz

### Specifications

Parameter	Specification
Noise temperature (@+25'C)	30°K max.
Input VSWR	2.5 : 1 max.
Image rejection	45 dBc min.
Conversion gain	65dB typ. 55dB min. 70dB max.
Output VSWR	2.5 : 1 max.
Gain flatness	4 dBp-p max.
Gain ripple (@per 27 MHz segment)	+/- 0.5 dB max.
1dB gain compression point	+3 dBm min.
Output impedance	75, 50 ohms
Leakage (@ input port)	-45 dBm max.
L.O Stability (@over temp.)	Phase locked external reference
Phase noise	External reference dependent
Ext. ref. input frequency	10 MHz
Ext. ref. input power	-10 to 0 dBm
Ext. ref. input port	IF output connector
Power supply	+12 to +24V DC
Required current	250 mA max.
Operating temperature	-40'C to +60'C
Storage temperature	-40'C to +80'C
Relative humidity	0% to 95% RH
Input waveguide flange	WR- 229
IF output connector	F-Type female, N-Type female
Weight	575 g



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