



ISO9001 Certified



Low Noise Blockdownconvertors LNB



Features

- Input Frequency Range 7.25 ~ 7.75GHz
- Output Frequency Range 950 ~ 1450MHz
- DC input voltage +12 ~ 24v

Applications

- Satellite receivers

Specifications

Parameter	Specification	
Input return loss	≥ 9.5 dB	
Output return loss	≥ 14 dB	
C-band(7~8GHz) filtering	55 dB	
LO drift over temp.	Internal Ref. : ±10 KHz max.	
Maximum phase noise(SSB) Internal Ref. / External Ref.	-62 dBc/Hz @ 100 Hz	
	-72 dBc/Hz @ 1 KHz	
	-82 dBc/Hz @ 10 KHz	
	-92 dBc/Hz @ 100 KHz	
	-102 dBc/Hz @ 1.0 MHz	
OP1dB	+10 Bm	
2 tone IMD	40 dBc @ tone 0 dBm	
OIP3	-20 dBm	
Maximum Tx Band(7.9~8.4GHz) signal level(-30dBm) that will not saturation the LNB and cause any N/F degradation.		
Gain	60 dB typ (55 dB ~ 65 dB)	
Gain flatness	≤ 1dB p-p over 36 MHz	
	≤ 3dB p-p over 120 MHz	
	≤ 4dB p-p over 500 MHz	
Gain variation over temp.	≤ 4dB p-p	
Spurious	Receive band	-65 dBm max. (950~1450MHz)
	Out of band	-50 dBm max. (200~2200MHz)
	Others	-25 dBm max. (0.2~20GHz, except nLO)
LO leakage	IF output	-30 dBm max.
	RF input	-45 dBm max.
Image rejection	45 dB min., 60 dB typ.	
Noise Figure (N/F)	0.6 dB max @ 23°C (With SMA to WR-112 waveguideadapter)	
Input / Output stability	ok	
DC current	300 mA max.	