* Active parts

Satellite Low noise block down Converter (LNB)

Features

- ▶ Input Frequency Range 7.25~7.75GHz
- ▶ Output Frequency Range 950~1450MHz
- ▶ DC +12 ~ 24V

* Applications

- ▶ Satellite Receivers

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
		-112 dBc/Hz @ 10 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 waveguide adapter)
DC current		300 mA max.