

Heritage Receiver/Downconverter Line Up

Ku-band (BSS) RCVR



Main Characteristics

- o Low Noise Figure, High Gain & Linearity
NF= 1.8dB nom. @+60degC
Gain= 53dB min.
C/3IM= -51dBc max. (Pin= -52 dBm each)
- o High Frequency Stability:
Over Temperature Stability : less than ± 0.8 ppm
- o Self gain compensation by using the Variable Gain Amp over temperature.
- o This Ku-band RCVR was developed for BSAT-2c Satellite, and has already qualified (PFM/FM : 2units)

Specification Table

PARAMETER	TYPICAL PERFORMANCE	Remark
Frequency Range		
Input	17.31 to 17.77 GHz	
Output	11.71 to 12.17 GHz	
Local	5.6 GHz	
Bandwidth	460 MHz	
Noise Figure	1.8 dB	@+60deg.C,BOL
	1.6 dB	@+23deg.C,BOL
Gain	53.5 dB	
Gain Flatness	0.3 dBp-p	any 34.5MHz
Gain Stability	0.3 dBp-p	any 10deg.C
Third oder IM	51.0 dBc	Pin=-52dBm each
Local Frequency Stability	+/-0.8 ppm	over QT Temp.
Phase Noise		
10Hz offset	-52 dBc/Hz	
100Hz offset	-78 dBc/Hz	
1kHz offset	-88 dBc/Hz	
10kHz offset	-99 dBc/Hz	
100kHz offset	-115 dBc/Hz	
1MHz offset	-140 dBc/Hz	
Power Consumption	6.9 W	
Temperature Range		
QT	-10 to +60 deg.C	
Start Up	-35 deg.C	
Mass	0.79 kg	
Dimension	173x79x137	