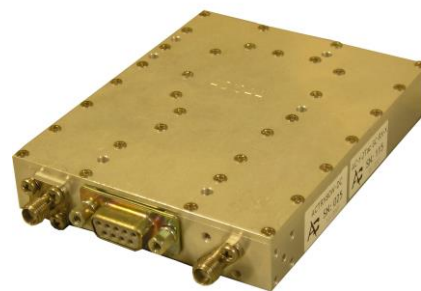


X-BAND DOWN CONVERTER

ACSC-RX-X Module Single Conversion



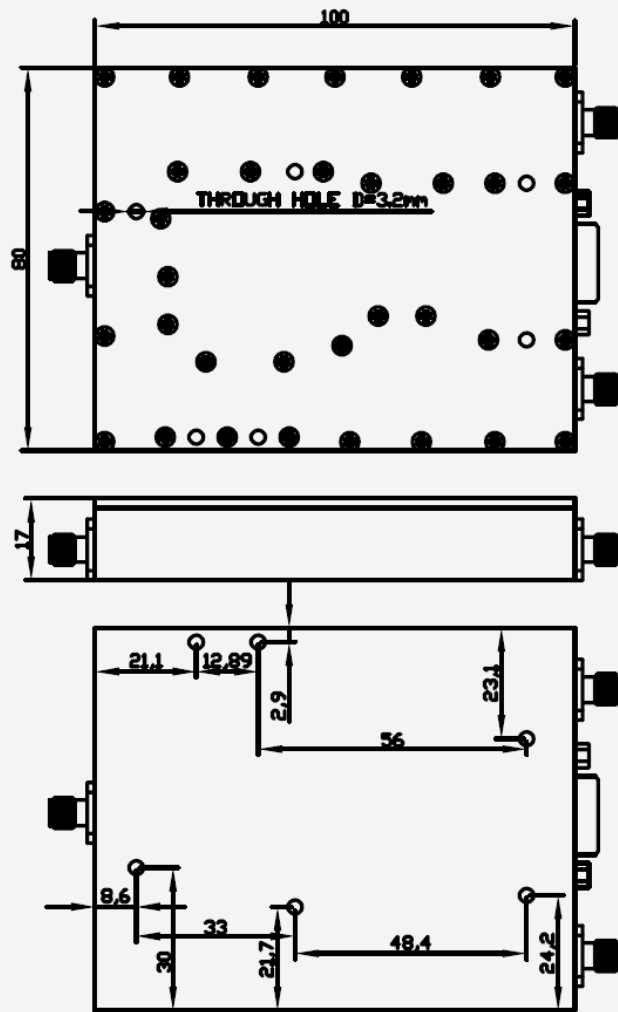
Ed.04
23/09/10

ACORDE Module single conversion X-Band frequency down converter has been designed for low consumption and low weight applications in order to provide advanced satellite communications.

Specifications have been optimised to provide user an efficient frequency conversion. Indoor applications

RECEIVER SPECIFICATIONS

Input RF frequency	7.25 – 7.75 GHz
Input level (no damage).....	0 dBm
Input VSWR	< 1.3:1
Input impedance	50 Ω
Output L-band frequency	950 - 1450 MHz
Output VSWR	< 1.5:1
Output impedance	50 Ω
Output P1dB @ 25°C	≥ +15 dBm
Spurious signal related.....	< -50 dBc at -20 dBm output
Spurious signal independent.....	< -50 dBm
Conversion Gain.....	30 ± 2 dB @ maximum gain
Gain adjustment range	20 dB
Gain adjustment step	0.5 dB
Gain flatness	± 0.5 dB
	± 1.5 dB over the whole bandwidth
Gain stability in 24 hours.....	± 0.25 dB at constant temperature
Gain stability vs temperature	± 1.5 dB over the whole range
Noise figure.....	< 15 dB @ maximum gain settings
Carrier to intermodulation ratio	-60 dBc (two carriers -5 dBm each)
LO input frequency	6.3 GHz
LO input level	+13 ± 1 dBm



▼ POWER SUPPLY

DC input voltage 12-15 Vdc
 Current consumption..... 400 mA (typ.)

▼ ENVIRONMENTAL SPECIFICATIONS

Storage temperature -40 to +80°C
 Operating temperature -20 to +60°C

▼ MECHANICAL SPECIFICATIONS

Interfaces:
 RX input: SMA female
 L-Band output: SMA female
 LO input: SMA female
 M&C + DC input: D – Sub9
 Dimensions..... 100 (L) x 80 (W) x 18 (H) mm
 Weight 250 g