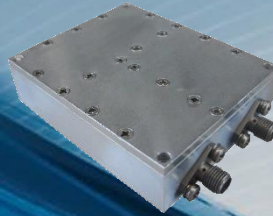


# PHASE LOCKED CRO MODULE

ACPLCRO-SL Single Loop



Ed.01  
23/09/10



**ACPLCRO-SL is a multiplied frequency single loop phase-locked ceramic resonator oscillator designed to meet all requirements of the modern commercial and military telecommunication systems.**

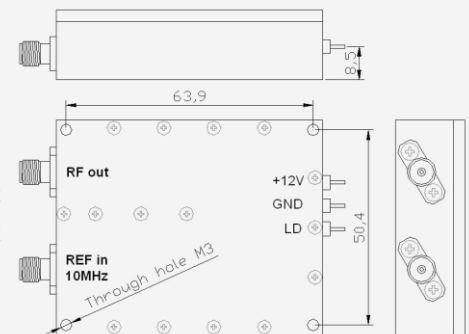
**It was designed and tested to operate in extreme environmental conditions, low/high temperatures and stress. Beside excellent temperature stability, low phase noise and spectral purity, phase locked to 5 or 10MHz reference oscillator ACPLCRO has very low power consumption. Operating temperature range is -20°C to +60°C (-40°C to +60°C option is also available).**

## INPUT SPECIFICATIONS

Reference frequency .....	10 MHz (5 MHz as option)
Reference mode .....	External
Reference frequency level.....	0 dBm ± 3 dB

## OUTPUT SPECIFICATIONS

Output frequency .....	4.5 – 6.0 GHz (C-band)
(Other frequency bands available upon request) .....	6.0 – 10.5 GHz (X-band)
.....	10.5 – 15.0 GHz (Ku-band)
Output power .....	13 dBm ± 1 dB
Output impedance .....	50 Ω
Output VSWR .....	< 1.5:1
Output power stability vs temperature.....	± 1.5 dB
Output phase noise @ 14.5 GHz:	
100 Hz .....	-75 dBc/Hz
1 kHz .....	-80 dBc/Hz
10 kHz .....	-90 dBc/Hz
100 kHz .....	-105 dBc/Hz
1 MHz.....	-125 dBc/Hz
Harmonics .....	≤ -50 dBc
Spurious .....	< -70 dBc



## POWER SUPPLY

Input voltage .....	+ 12 Vdc
Current consumption.....	280 mA (typ.)

## ENVIRONMENTAL SPECIFICATIONS

Storage temperature .....	-40 to +85°C
Operating temperature .....	-20 to +60°C (-40 to +60°C as option)

## MECHANICAL SPECIFICATIONS

Interfaces:	
Reference input: .....	SMA female
RF output: .....	SMA female
DC input: .....	7A feed thru
Lock Detect (0/+12V): .....	7A feed thru
Dimensions.....	56 (L) x 70 (W) x 18 (H) mm
Weight .....	150 g