

TEST LOOP TRANSLATOR C-BAND HUBMOUNT

ACTLT-C-E1-V2



Ed.01
15/10/10

ACORDE C-band frequency test loop translator hubmount (outdoor applications) is integrated in sealed box along with the rest of the necessary elements to convert from transmission C-band to reception C-band, such as the control card and the power supply. Specifications have been optimised to provide the user an efficient frequency conversion. It also enables the configuration of the gain level of the converter.

FEATURES

- Automatic 10 MHz internal/external reference selection
- Remote Control via Ethernet TCP/IP or via serial interface (RS485)
- Low intermodulation distortion
- External alarm via remote control interface
- Compact hubmount package (outdoor applications)

TECHNICAL SPECIFICATIONS

Input frequency	5.850 – 6.725 GHz
Input level	0 to -30 dBm with internal AGC
Input returns loss	15 dB min
Input impedance.....	50 Ω
Output frequency.....	3.4 – 4.2 GHz
Output return loss.....	15 dB min
Output impedance.....	50 Ω
Output level.....	-20 to -50 dBm (selected by software)
Spurious signal dependent.....	< -50 dBc @ Pout = -30 dBm
Spurious signal independent.....	< -60 dBm
Gain adjustment range	30 dB
Gain adjustment step	1 dB
Gain flatness	\pm 1.5 dB max
Gain stability versus temperature.....	\pm 1.5 dB over the whole range
Noise figure	< 15 dB @ min. input level, max. output level
Image rejection.....	> 60 dB
Mute rejection.....	> 50 dB

LOCAL OSCILLATOR

LO frequency.....	2.450 GHz (for RF input 5.850 – 6.650 GHz)
(LO frequency selection by software)	2.525 GHz (for RF input 5.925 – 6.725 GHz)
LO bandwidth	Fo ± 5 MHz
Frequency set step	1 kHz
Output phase noise:	
100 Hz.....	-70 dBc/Hz
1 kHz.....	-80 dBc/Hz
10 kHz.....	-90 dBc/Hz
Reference frequency.....	10 MHz
Reference mode	Internal (external selected automatically on presence)
Reference input level.....	0 dBm ± 3 dB
Reference stability	±2x10 ⁻⁸ /day
	±1x10 ⁻⁷ /year

POWER SUPPLY

AC input voltage	85 - 265 VAC (47-63 Hz)
Power consumption	30 W (typ.)

ENVIRONMENTAL SPECIFICATIONS

Storage temperature	-40 to +80°C
Operating temperature	-20 to +60°C
Relative humidity	up to 95%
Operating altitude	up to 3500 m

MECHANICAL SPECIFICATIONS

Interfaces:	
RF output	N female
IF input	N female
LO monitor	SMA female
Ref. ext. input.....	BNC female
AC line	MS3112E12-3P
Serial port	MS3112E12-14S
Ethernet.....	RJF21G (RJ-45)
Dimensions.....	210 x 210 x 65 mm
Weight	4 Kg
Finish.....	White RAL 9003

PHYSICAL ASPECT

