

TEST LOOP TRANSLATOR DBS-BAND HUBMOUNT

ACTLT-DBS-E1-V1



Ed.03
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ACORDE DBS-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 DBS-band to reception Ku-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 | 17.3 – 18.1 GHz |
| Input level | 0 to -30 dBm with internal AGC |
| Input returns loss | 15 dB min |
| Input impedance..... | 50 Ω |
| Output frequency..... | 10.95 – 11.75 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 | ± 1.5 dB max |
| Gain stability versus temperature..... | ± 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

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 \pm 3 dB |
| Reference stability | $\pm 2 \times 10^{-8}$ /day $\pm 1 \times 10^{-7}$ /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 |