MINI BUC X-BAND 20W
ACMB-X20W-E1-V3
Medium Power Compact GaAs Series

The ACMB-X family of BUCs is designed for the most challenging X-band professional & military satellite communication systems (ground, SOTP, SOTM, maritime, etc.). Latest technology is applied to obtain the best linearity, phase noise, gain stability and linear power according to MIL-STD-188-164C. The ACMB-X family is a high reliability solution designed for harsh environmental conditions, with every single production unit fully tested in an environmental chamber and delivered with a complete factory acceptance test report.

TRANSMITTER SPECIFICATIONS

- **Input frequency**: 950 to 1450 MHz
- **Input L-Band VSWR (50 Ω)**: < 1.5:1
- **Output frequency**: 7.9 to 8.4 GHz
- **Output X-band VSWR (50 Ω)**: < 1.3:1
- **Spectrum inversion**: None
- **Max. input level without damage (P1dB)**: 0 dBm
- **Gain**: 60 dB min
- **Gain flatness**: ±1.5 dB over whole BW
- **Gain stability (24 hours)**: ±0.25 dB @ const. temp.
- **Gain variation over temperature**: ±1.5 dB (±2.0 dB option LP3)
- **Attenuation adjustment range**: 30 dB with 0.5 dB steps
- **Mute**: > 50 dB
- **Noise figure**: ≤ 15 dB @ max. gain
- **Output noise power density**: ≤ -0.01 dBm/Hz (7.25-7.75 GHz)
- **Spurious @ P1dB**: ≤ -60 dBc
- **Harmonics @ P1dB**: ≤ -50 dBc
- **TOI @ P1dB - 3 dB**: ≤ -25 dBc (2 tones Δ=5 MHz)
- **Sample port**: ≤ -40 dBc ± 2 dB

MECHANICAL SPECIFICATIONS

- **Size (LxWxH)**: 281 x 160 x 85 mm
- **Weight**: 4.3 kg
- **Finish**: RAL 9003 (White)

ENVIROMENTAL SPECIFICATIONS

- **Storage temperature**: -40 °C to +85 °C
- **Operating temperature**: -20 °C to +60 °C
- **Relative humidity**: up to 95%
- **Operating altitude**: up to 3000 m

INTERFACES

- **TX input (L-Band + Ext. Ref.)**: Type N(F) 50 Ω, WR112 CPRG flange
- **TX output (X-Band)**: Type SMA(F) 50 Ω, 62IN12E12-3P-4-622 (as option)
- **Output sample (X-Band)**: 62IN12E12-8P-4-622
- **M&C**: (RS232/485)
- **M&C**: (Ethernet/SNMP)
- **DC Power supply**: 62IN12E12-3P-4-622 (as option)
- **AC Power supply**: 62IN12E12-8P-4-622 (as option)

OPTIONS

- **X-band output**: 7.9 to 8.4 GHz
- **L-band input**: 950 to 1450 MHz

POWER SUPPLY

- **DC input voltage**: 48 Vdc
- **Consumption**: 180 W @ P1dB