



25W Fanless Ext. 5.85-6.725 GHz C-Band BUC

| TECHNICAL SPECIFICATIONS | |
|---|--|
| RF frequency | 5.850 to 6.725 GHz |
| Local oscillator | 4.90 GHz |
| IF frequency | 950 to 1,825 MHz |
| Output power | 25W (+44 dBm min.), P-Linear 13.1W (41.1 dBm min.) |
| IF connector | N-type or F-type (field-exchangeable) |
| Power supply : auto-ranging via IF connector | +15 VDC ~ +60 VDC, 87W max. |
| Output interface | CPR 137 G |
| Gain | 68 dB nominal |
| IMD3 | -26 dBc max. 2 signal 5MHz apart at P-LINEAR |
| L.O. leakage | -45 dBm max. |
| Spurious | -50 dBc max. |
| Spectral regrowth (QPSK at 1.5x and OQPSK at 1.0x symbol rate offset with 2dB back-off from rated output power) | -30 dBc |
| Requirement for external reference: frequency input power | via IF cable 10 MHz (sine-wave) -5 to +5 dBm @ input port |
| TX Gain variation | ± 0.5 dB over 40 MHz ± 1.8 dB over full band |
| TX Gain stability over temperature range | ± 1.5 dB typ., ± 1.8 dB max. |
| Phase noise (Exceeds Intelsat's standard IESS308/309) | -55 dBc/Hz max. @ 10 Hz -65 dBc/Hz max. @ 100 Hz -75 dBc/Hz max. @ 1 KHz -85 dBc/Hz max. @ 10 KHz -95 dBc/Hz max. @ 100 KHz -115 dBc/Hz max @ 1 MHz |
| Noise power density | Transmit -66 dBm/Hz (max.) Receive -157 dBm/Hz (max.) |
| Noise figure | 15 dB max. |
| Input V.S.W.R. | 1.5 : 1 max. |
| Output V.S.W.R. | 1.5 : 1 max. |
| M&C Interface | RS-232 and RS-485, Ethernet (HTTP and SNMP ver.2 and 3) |
| FSK | Multiplexed on TX IFL, com. with Comtech/ Paradigm |
| Mute | Shut off the HPA if L.O. unlocked |
| Status LED Amplifier L.O. 10MHz | RED GREEN GREEN GREEN GREEN blinking RED Summary alarm All OK All OK L.O. is set to 4.9 GHz External 10MHz reference Internal 10MHz reference No 10MHz reference detected |
| Temperature range (ambient) operating storage | -40 deg C to +55 deg C -55 deg C to +85 deg C |
| Vibration and shock | Complies with MIL-STD-810E |
| Altitude | Up to 23,000 feet |
| IP rating | IP67 |
| Dimensions & housing | 195 (L) x 120 (W) x 87 (H) mm 7.67"(L) x 4.72"(W) x 3.42" (H) |
| Weight | 2.76 kg (6.08 lbs) max. |