

Cirrus RF-LO-S C-Band Synthesizer



SPECIFICATIONS

RF Frequency Outputs (J1 thru J5)

- Frequency = 5065.0 MHz +/- 0.5 ppm (-20 to +70C)
- Power out = 12 dbm +/- 0.5db
- Phase noise < -110dbc/10KHz offset
- Spurious outputs < 65dbc
- Harmonic output < -50dbc
- Input/output VSWR <2:1

IF Frequency Outputs (J6 thru J10)

- Frequency = selectable 255MHz, 300MHz, or 345MHz +/- 0.5ppm (-20 to +70C)
- Power out = 12dbm +/- 0.5db
- Phase noise -120dbc/10KHz offset
- Spurious outputs < 65dbc
- Harmonic output < -30 dbc
- Input/output VSWR <2:1

DC Requirements

- 5Vdc and 15Vdc
- 5Vdc minimum supply voltage = 4.7Vdc
- 15Vdc minimum supply voltage = 14.8Vdc
- 5Vdc current demand 1200mA
- 15Vdc warm up current demand 300mA for first 3min
- 15Vdc steady state current < 100mA

Reference Output Specifications

- Frequency output = 100MHz +/- 0.5ppm (-20 to +70C)
- Output power = 0dbm +/- 0.5db
- Phase noise < 160dbc at 10K Offset
- Output VSWR <2:1

BENEFITS

- Low power consumption
- Small ruggedized construction
- Internal 100MHz OCXO with external output
- Ultra low phase noise fixed frequency outputs
- Five C-Band and five selectable IF frequency outputs

APPLICATIONS

- Commercial and military applications
- Communications
- EW/SIGINT
- Radar

CONFIGURATIONS

Model Number	Configuration
Horizon-RF-LO-S-C	Commercial temp 0°C - 50°C

*Please contact CEI for extended temperature range options