

FREQUENCY RANGE

| | |
|-------------------------|------------------------------|
| RF Frequency Band (GHz) | 19.2 to 21.2 |
| IF Frequency Band (MHz) | 950 to 2100 |
| Bandwidth (MHz) | 1 GHz bands |
| Local Oscillator (GHz) | 17.25 to 20.25 |
| Noise Figure (dB) | 1.5 max |
| LO Stability | Locked to external reference |
| LO Phase Noise | Locked to external reference |
| Band Switching | Voltage |

10 MHz REFERENCE

| | |
|-------------|---------------------|
| Insertion | via input connector |
| Input Level | -10 to 0 dBm |

VSWR

| | |
|--------|-------|
| Input | 1.3:1 |
| Output | 2.0:1 |

GAIN

| | |
|-----------|-------------------------------|
| Gain (dB) | 60 |
| Flatness | +/- 1.5 dB over frequency |
| Ripple | +/- 0.3 dB over any 10 MHz |
| Stability | +/- 0.25 dB over 24 hrs @ 25C |

OTHER SPECS

| | |
|------------------------|--|
| Image Rejection | -40 dBm min |
| LO Leakage | -45 dBm |
| 1 dB Compression (dBm) | +10 min |
| OIP3 (dBm) | +20 min |
| Desense Level | -20 dBm transmit signal results in no more than 0.1 dB of NF degradation |

ENVIRONMENTAL

| | |
|----------------|-----------------|
| Operating Temp | -40°C to +60°C |
| Humidity | 100% condensing |
| MTBF | > 250,000 hours |
| Standards | RoHS and REACH |

POWER

| | |
|---------------------|--------------|
| Current Draw | 5 watts max |
| Input Voltage Range | 15 to 26 VDC |

MECHANICAL

| | |
|------------------|----------|
| Weight (grams) | 485 |
| Length (mm) | 145 |
| Width (mm) | 44 |
| Depth (mm) | 44 |
| Input Connector | WR-42 |
| Output Connector | N or SMA |

OPTIONS

| |
|--------------------------------|
| Push button band switching |
| RS 422 via micro DB9 switching |
| Extended temperature ranges |
| Airborne version available |

PUSH BUTTON BAND SWITCHING



Please contact Orbital Research for ordering information: sales@orbitalresearch.net