

QLB-17700-21200-60-170-1

17.7~18.7/18.7~19.7/19.2~20.2/20.2~21.2GHz, 60dB, 170K, Ka-Band

Features:

- * Broad Band
- * Low Noise Temperature
- * Low Input VSWR

Applications:

- * Fixed Station
- * Mobile Station
- * Laboratory Test

Electrical

| | |
|----------------------|--|
| Gain: | 60dB |
| Gain Flatness: | 4.0dBp-p max. |
| Noise Temperature: | 170K |
| Output Power (Psat): | 10dBm min. |
| Input/Output VSWR: | 1.35/1.5 |
| Phase Noise: | -70dBc/Hz@1KHz max. -80dBc/Hz@10KHz max. -90dBc/Hz@100KHz max. |
| Frequency Stability: | ±1ppm max. @Internal Reference |
| External Reference: | 10MHz, 0±3dBm |
| Voltage: | 12~24V DC |
| Current: | 500mA typ. @15V |
| Impedance: | 50Ω |

| Input RF Frequency (GHz) | Output IF Frequency (MHz) | LO Frequency (GHz) | Control Voltage (LO) (V) |
|--------------------------|---------------------------|--------------------|--------------------------|
| 17.7~18.7 | 950~1950 /950~1950 | 16.75/21.15 | 13 |
| 18.7~19.7 | 950~1950 /950~1950 | 17.75/21.15 | 13 @22KHz |
| 19.2~20.2 | 950~1950 /950~1950 | 16.75/22.15 | 18 |
| 20.2~21.2 | 950~1950 /950~1950 | 17.75/22.15 | 18 @22KHz |

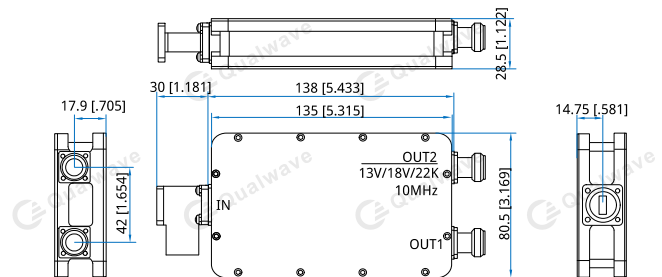
Mechanical

| | |
|--------------------------|--|
| Size*1: | 135*80.5*28.5mm 5.315*3.169*1.122in |
| RF Input Waveguide Size: | WR-42 (BJ220) |
| Flange: | FBM220 |
| Ext.ref. Input(10MHz)/ | N Female /SMA Female /75Ω F |
| IF Output Connectors: | Inch Thread Female |
| Weight: | 530g max. |

[1] Exclude connectors.

Environmental

| | |
|------------------------|-----------|
| Operating Temperature: | -40~+60°C |
| Operating Humidity: | 0~100% |

Outline Drawings


Unit: mm [in]

Tolerance: ±0.5mm [±0.02in]

How To Order
QLB-17700-21200-60-170-1-Z

Z: Output connector type

Connector naming rules:

- N - N female
- S - SMA female
- F - F Inch Thread female

Examples:

To order a Block Downconverters (LNBS), 17.7~21.2GHz, 60dB, 170K, N female, specify QLB-17700-21200-60-170-1-N.

Customization is available upon request.