

## QBC-14000-14500-60-39S

Ku-Band, 14~14.5GHz, 60dB, 8W (39dBm)

**Features:**

- \* Low Power Consumption
- \* High Power Threshold Setting
- \* Fully Modular Design
- \* Integrated Structural Design

**Applications:**

- \* Satellite Earth Station
- \* Satellite Communication
- \* Telecommunication

### Electrical

|                      |  |
|----------------------|--|
| RF Frequency:        | 14~14.5GHz   |
| IF Frequency:        | 950~1450MHz  |
| Output Power (Psat): | 8W (39dBm) min.  |
| Power Consumption:   | 65W  |
| Small Signal Gain:   | 60dB typ.  |
| Gain Flatness:       | ±2dB   |
| IM3:                 | -25dBc   |
| Spurious:            | -55dBc max.  |
| Input/Output VSWR:   | 2.0/2.0  |
| Phase Noise:         | -60dBc/Hz@100Hz<br>-70dBc/Hz@1KHz<br>-80dBc/Hz@10KHz<br>-90dBc/Hz@100KHz |
| External Reference:  | 10MHz, 0±5dBm  |
| Supply Voltage:      | +18~+36VDC   |
| Impedance:           | 50Ω  |

### Environmental

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

### Mechanical

|                               |  |
|-------------------------------|--|
| IF, Ext.ref. input connector: | 50Ω N Female/75Ω F Inch<br>Thread Female |
| Output Waveguide Size:        | WR-75 (BJ120)                            |
| Power Supply:                 | IFL                                      |
| Flange:                       | FBM120                                   |
| Weight:                       | 1.2Kg                                    |

[1] Exclude connectors.

### Outline Drawings

To be done.

Unit: mm [in]

Tolerance: ±0.5mm [±0.02in]

### How To Order

**QBC-14000-14500-60-39S-X**

X: Input connector type

Connector naming rules:

N - N female

F - F Inch Thread female

Examples:

To order a Block Up Converter (BUC), 14~14.5GHz, 60dB, 8W (39dBm), N female, specify QBC-14000-14500-60-39S-N.

Customization is available upon request.