

## **FBC-14000-14500-70-46S** Ku-Band, 14~14.5GHz, 70dB, 40W (46dBm)

**Features:**

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

**Applications:**

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

### Electrical

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RF Frequency:	14~14.5GHz
IF Frequency:	950~1450MHz
LO Frequency:	13.05GHz
Output Power (P <sub>sat</sub> ):	40W (46dBm)
Power Consumption:	150W
Small Signal Gain:	70dB
Gain Flatness:	3dB/500MHz, 4dB/750MHz max.
Attenuation Control:	0~20dB, step 0.1dB
IM3:	-25dBc @Maximum output power fallback 3dB
Spurious:	-55dBc
Input/Output VSWR:	1.5/1.35
Phase Noise:	-63dBc/Hz@100Hz -75dBc/Hz@1KHz -85dBc/Hz@10KHz -95dBc/Hz@100KHz
External Reference:	10MHz, 0±5dBm
Supply Voltage:	+18~+55VDC
Impedance:	50Ω

### Environmental

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Operating Temperature:	-40~+60°C
Operating Humidity:	0~100% (Condensing)

### Mechanical

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IF, Ext.ref. input connector:	50Ω N Female/75Ω F Inch Thread Female
Output Waveguide Size:	WR-75 (BJ120)
Power Supply:	Aviation socket
Flange:	FBM120
Weight:	1.5Kg

[1] Exclude connectors.

### Outline Drawings

To be done.

Unit: mm [in]

Tolerance: ±0.5mm [±0.02in]

### How To Order

**FBC-14000-14500-70-46S-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, 70dB, 40W (46dBm), N female, specify FBC-14000-14500-70-46S-N.

Customization is available upon request.