

## FBC-29500-30000-70-46S

### Ka-Band, 29.5~30GHz, 70dB, 40W (46dBm)

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| <b>Features:</b><br>* Low Power Consumption<br>* High Power Threshold Setting<br>* Fully Modular Design<br>* Integrated Structural Design | <b>Applications:</b><br>* Satellite Earth Station<br>* Satellite Communication<br>* Telecommunication |
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#### Electrical

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RF Frequency:	29.5~30GHz
IF Frequency:	950~1450MHz
Output Power (Psat):	40W (46dBm)
Power Consumption:	350W
Small Signal Gain:	70dB
Gain Flatness:	3dB/500MHz, 4dB/1000MHz max.
Gain Stability:	3dB max.
Attenuation Control:	0~20dB, step 0.1dB
IM3:	-25dBc
Spurious:	-55dBc
Input/Output VSWR:	1.5/1.35
Phase Noise:	-63dBc/Hz@100Hz -73dBc/Hz@1KHz -83dBc/Hz@10KHz -93dBc/Hz@100KHz
External Reference:	10MHz, 0±5dBm
Supply Voltage:	+36~+72VDC
Impedance:	50Ω

#### Environmental

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

#### Mechanical

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IF, Ext.ref. input connector:	50Ω N Female/75Ω F Inch Thread Female
Output Waveguide Size:	WR-28 (BJ320)
Flange:	FBM320
Power Supply:	Aviation socket
Monitor:	Aviation socket (Support RS-232, RS-485, Ethernet)
Weight:	4.8Kg

[1] Exclude connectors.

#### Outline Drawings

To be done.

Unit: mm [in]  
Tolerance: ±0.5mm [±0.02in]

#### How To Order

**FBC-29500-30000-70-46S-X**

X: Input connector type

Connector naming rules:

- N - N female
- F - F Inch Thread female

Examples:

To order a Block Up Converter (BUC), 29.5~30GHz, 70dB, 40W (46dBm), N female, specify FBC-29500-30000-70-46S-N.

Customization is available upon request.