

## FBC-5850-6425-60-37S

C-Band, 5.85~6.425GHz, 60dB, 5W (37dBm)

### 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:        | 5.85~6.425GHz  |
| IF Frequency:        | 950~1525MHz  |
| Output Power (Psat): | 5W (37dBm)   |
| Power Consumption:   | 45W  |
| Small Signal Gain:   | 60dB   |
| Gain Flatness:       | 4dB/575MHz, 5dB/875MHz<br>max.   |
| Gain Stability:      | 3dB max.   |
| Attenuation Control: | 0~20dB, step 0.1dB   |
| IM3:                 | -25dBc   |
| Spurious:            | -55dBc   |
| Input/Output VSWR:   | 2.0/2.0  |
| Phase Noise:         | -65dBc/Hz@100Hz<br>-75dBc/Hz@1KHz<br>-85dBc/Hz@10KHz<br>-95dBc/Hz@100KHz |
| External Reference:  | 10MHz, 0±5dBm  |
| Supply Voltage:      | +18~+36VDC   |
| 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<br>Thread Female |
| Output Waveguide Size:        | WR-137 (BJ70)                            |
| Flange:                       | FDM70                                    |
| Power Supply:                 | Aviation socket                          |
| Weight:                       | 1.5Kg                                    |

[1] Exclude connectors.

### Outline Drawings

To be done.

Unit: mm [in]

Tolerance: ±0.5mm [±0.02in]

### How To Order

**FBC-5850-6425-60-37S-X**

X: Input connector type

Connector naming rules:

N - N female

F - F Inch Thread female

Examples:

To order a Block Up Converter (BUC), 5.85~6.425GHz, 60dB, 5W (37dBm), N female, specify FBC-5850-6425-60-37S-N.

Customization is available upon request.