

## FLB-3700-4200-60-50

3.7~4.2GHz, 60dB, 50K, C-Band

### Features:

- \* Broad Band
- \* Low Noise Temperature
- \* Anti 5G Interference

### Applications:

- \* Satellite Earth Station
- \* Laboratory Test
- \* Telecommunication

### Electrical

|                           |                       |
|---------------------------|-----------------------|
| Input RF Frequency:       | 3.7~4.2GHz            |
| Output IF Frequency:      | 950-1450MHz           |
| Gain:                     | 60dB                  |
| Gain Flatness:            | 4dB/500MHz max.       |
| Noise Temperature:        | 50K typ.              |
| Output Power (P1dB):      | 12dBm min.            |
| Input Power:              | 0dBm                  |
| Non Damaging Input Power: | +20dBm max.           |
| Input/Output VSWR:        | 2.5/2.0               |
| Stopband Attenuation:     | -80dB@3.4GHz          |
|                           | -60dB@3.5GHz          |
|                           | -50dB@3.6GHz          |
|                           | -60dB@4.5GHz          |
|                           | -90dB@4.8GHz          |
| Phase Noise (Int.Ref.):   | -65dBc/Hz@100Hz max.  |
|                           | -80dBc/Hz@1KHz max.   |
|                           | -83dBc/Hz@10KHz max.  |
|                           | -93dBc/Hz@100KHz max. |
| Frequency Stability:      | ±1ppm                 |
| External Reference:       | 10MHz, 0±3dBm         |
| Voltage:                  | 12~18V DC             |
| Current:                  | 200mA typ.            |
| Impedance:                | 50Ω                   |

### Environmental

|                            |           |
|----------------------------|-----------|
| Operating Temperature:     | -40~+60°C |
| Non-Operating Temperature: | -40~+80°C |

### Mechanical

|                          |                          |
|--------------------------|--------------------------|
| RF Input Waveguide Size: | WR-229 (BJ40)            |
| Flange:                  | FDM40                    |
| Ext.Ref. Input (10MHz)/  | 50Ω N Female/50Ω SMA     |
| IF Output Connector:     | Female/75Ω F Inch Thread |
|                          | Female                   |
| Weight:                  | 720g                     |

### Outline Drawings

To be done.

Unit: mm [in]

Tolerance: ±0.5mm [±0.02in]

### How To Order

**FLB-3700-4200-60-50-Z**

Z: Output connector type

Connector naming rules:

N - N Female

S - SMA Female

F - F Inch Thread Female

Examples:

To order a Block Downconverter (LNB), 3.7~4.2GHz, 60dB, 50K, N female, specify FLB-3700-4200-60-50-N.

Customization is available upon request.