



- Dual bands are switchable
- Low power consumption
- Higher reliability from integrated design principle
- Compact size and light weight
- Meet ETSI, FCC standards



Block Downconverter Ka-Band Ext. Ref. 930X (BDC)

Model: GBDKA930X

Specifications

| Parameter | Specification |
|----------------------------------------|----------------------------------------------------------------------|
| Input Freq. | 19.2 - 20.2 GHz |
| Output Freq. | 950 – 1950 MHz |
| L.O Freq. | 18.25 GHz |
| Noise figure | 18 dB max |
| Conversion gain at -40 to +60°C | 25 dB typ. (22dB min. 28dB max.) |
| Gain flatness | 4 dBp-p max. |
| Gain flatness at -40 to +60°C | 5 dBp-p max. |
| Gain ripple at per 27MHz, -30 to +60°C | 1 dBp-p max. |
| L.O stability at -40 to +60°C | depends on ext. ref. |
| Image rejection | 40 dBc min. |
| Phase noise | -70 dBc/Hz (@ 1KHz) -80 dBc/Hz (@ 10KHz) -95 dBc/Hz (@ 100KHz) |
| Output P1dB | +5 dBm min. |
| Ext. ref. input freq. & power | 10 MHz, -5 to +5 dBm |
| Ext. ref. input port | Output connector |
| Input VSWR | 2.2: 1 max |
| Output VSWR | 2.2: 1 max |
| Input connector | SMA-type female |
| Output connector | F, N, SMA-type female (option) |
| Power supply | +15 to +24V DC |
| Power supply connector | Feed thru and/or output connector |
| Required current | 300 mA max. |
| Operating temperature | -40 to +60°C |

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| Parameter | Specification |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Waterproof | IP 67 |
| Dimension (exclude connector) | 89.6 x 78.0 x 40.0 mm |
| Weight | 400 g |
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Mechanical Diagram (Unit: inch (mm))

