



# BDC-KUXDDF

## Single-Band Ku-Band EXT BDC

Frequency: D: 11.7 - 12.75 GHz  
Power Connector: Feed & output connector  
Output Connector: F Connector



### KEY SPECIFICATIONS

|                         |                      |
|-------------------------|----------------------|
| Band                    | Ku-Band              |
| External Ref Freq       | 10 MHz, -5 to +5 dBm |
| Input Frequency Band 1  | 11.70 - 12.75 GHz    |
| LO Frequency 1          | 10.75 GHz            |
| LO Stability            | Ext Ref              |
| Noise Figure            | 15 dB max.           |
| Output Frequency Band 1 | 950 - 2000 MHz       |
| Reference Type          | External Reference   |
| Product Revision        | A                    |

### RF SPECIFICATIONS

|                               |               |
|-------------------------------|---------------|
| Conversion Gain Max           | 23 dB         |
| Conversion Gain Min           | 17 dB         |
| Conversion Gain Typ           | 20 dB         |
| Gain Flatness                 | 4 dB p-p max. |
| Gain Ripple (At Per 36MHz)    | 1 dB p-p max. |
| Image Rejection               | 40 dBc min.   |
| Input VSWR                    | 2.0 : 1 max.  |
| Output P1dB                   | 5 dB max.     |
| Output VSWR                   | 2.0 : 1 max.  |
| Phase Noise 1kHz Offset Max   | -70 dBc/Hz    |
| Phase Noise 10kHz Offset Max  | -80 dBc/Hz    |
| Phase Noise 100kHz Offset Max | -95 dBc/Hz    |

### ELECTRICAL SPECIFICATIONS

|                     |                         |
|---------------------|-------------------------|
| Current Consumption | 300 mA max.             |
| Input Power         | Feed & output connector |
| Power Requirements  | +12 to +24 V DC         |

### INTERFACE SPECIFICATIONS





RF Input Connector  
RF Output Connector

SMA Connector  
F Connector

## ENVIRONMENTAL SPECIFICATIONS

IP Rating IP 67  
Temperature Operational -40°C to +60°C

## PHYSICAL SPECIFICATIONS

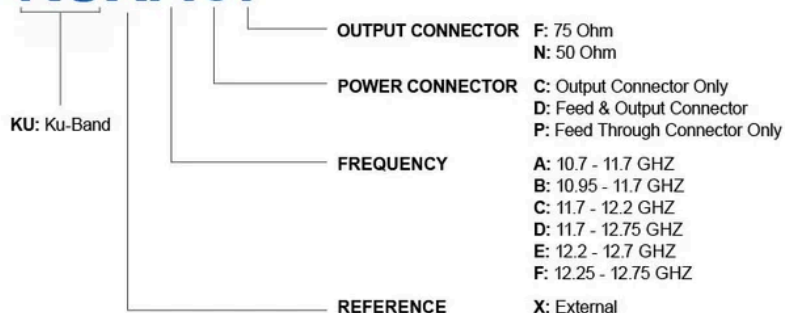
Product Height 40.0 mm  
Product Length 89.6 mm  
Product Weight 0.4 kg  
Product Width 78 mm

## SHIPPING INFORMATION

HS Code 8517690000  
Country of Origin Made in the Republic of Korea  
Ex Works Richmond, BC, Canada  
ECCN Number EAR99  
Warranty 3 years  
Unit Package Dimensions 145 mm x 95 mm x 65 mm  
Unit Package Weight 0.4 kg  
Total Aluminium Content 0.46 kg  
Aluminum Country of Smelt and Cast KR  
Total Aluminium Value \$ 1.15

## HOW TO ORDER

### BDC-KUXACF



## MECHANICAL DIAGRAMS

