

iDIRECT BUC Series

1.5W Universal-Ku Band BUC (P/N: E0001101-0001)

3W Universal-Ku Band BUC (P/N: E0001100-0001)

The iDirect 1.5W and 3W Universal-Ku Band Block Up Converters (BUC) support both standard and extended Ku-band frequencies for ultimate flexibility. By exploiting custom-designed components and advanced manufacturing techniques, these compact BUCs deliver outstanding power efficiency and reliability. Excellent for diverse applications, including solar-powered deployments.



Electrical Specifications

Output Frequency Range	13.75 to 14.5 GHz
Input Frequency Range	950 to 1,700 MHz
Conversion Type	Single, fixed L.O.
L.O. Frequency	12.80 GHz
Operating Power @ 1dB GCP	1.5W: +31.5 dBm min. @ +25°C; +31 dBm min. across temperature range 3W: +34.5 dBm min. @ +25°C; +34 dBm min. across temperature range
Linear Gain	1.5W: 55 dB nom., 48 dB min. 3W: 58 dB nom., 51 dB min.
Input Impedance	75 Ω nom.
Input V.S.W.R.	2 : 1 max.
Output V.S.W.R.	2 : 1 max.
DC Power Requirement [Voltage Range]	+24 VDC (+15 to +30 VDC)
[Power Consumption]	1.5W: 15 W max. @ Pout = +31 dBm; 12 W max. @ No IF, +25°C; 20 W max. @ Saturation 3W: 22 W max. @ Pout = +34 dBm; 15 W max. @ No IF, +25°C; 25 W max. @ Saturation

Mechanical Specifications

Input Interface	F-Type, Female
Output Interface	Waveguide, WR-75 (with Groove)
Dimension & Housing	91.55 (L) x 68 (W) x 42.5 (H) mm 3.60" (L) x 2.68" (W) x 1.67" (H)
Weight	350 g (0.77 lbs) max.

Environmental Specifications

Temperature Range (ambient)	-40 to +55°C (operating) -40 to +75°C (storage)
Humidity	0 to 100%
Altitude	15,000 feet
Compliance	CE, FCC, RoHS

Compatible with Evolution and Velocity. These products are manufactured in Japan and carry a 3-year warranty.

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Mechanical Drawing

