

# Ku-Band 16W/20W/25W Block Up Converters



## Applications

- High power BUCs for VSAT
- SatCom Applications

## Features

- 42/43/44dBm min. Output Power
- Based on GaN Technology
- Very Low Power Consumption
- Small Size & Light Weight
- DC Input Range 36~70VDC (Optional)
- Internal Reference / M&C Function (Optional)

| Model                           | KMU137145B10  | KMU137145B11 | KMU137145B12 |
|---------------------------------|---|--------------|--------------|
| RF Frequency                    | 14.0~14.5GHz<br>13.75~14.5GHz                                   |              |              |
| IF Frequency                    | 950~1450MHz<br>950~1700MHz                                      |              |              |
| LO Frequency                    | 13.05GHz<br>12.80GHz  |              |              |
| Output Power (min)              | 42dBm   | 43dBm        | 44dBm        |
| Gain (min)                      | 65dB  |              |              |
| Gain Variation over Frequency   | 2 dBp-p max. @ any 54 MHz<br>4 dBp-p max. @ over full bandwidth |              |              |
| Gain Variation over Temperature | 4 dBp-p max.  |              |              |
| IMD3                            | -26dBc max. @3dB total power back off from rated output power   |              |              |
| Spurious                        | In Band   | -60 dBc      |              |
|                                 | Out of Band   | -50 dBc      |              |
| Input VSWR                      | 2:1 max.  |              |              |
| Output Load VSWR                | 2 :1 max.   |              |              |
| Phase Noise                     | -63 dBc/Hz @ 100Hz  |              |              |
|                                 | -73 dBc/Hz @ 1KHz   |              |              |
|                                 | -83 dBc/Hz @ 10KHz  |              |              |
|                                 | -93 dBc/Hz @ 100KHz   |              |              |
|                                 | -103 dBc/Hz @ 1MHz  |              |              |
| DC Power                        | +36~+70VDC  |              |              |
| Power Consumption(max)          | 120W  | 150W         | 190W         |
| M&C (Optional)                  | Monitor : Output power, Lock Status, Temperature                |              |              |
|                                 | Control : Attenuator, Mute, LO selection                        |              |              |
|                                 | Interface : RS-232/RS-485                                       |              |              |
| Dimension (DC model)            | 233 x 140 x 88 mm   |              |              |
| Weight                          | 3.5kg max.  |              |              |
| Temperature Range               | Operation : -40 to +55°C  |              |              |
|                                 | Storage : -40°C to +75°C  |              |              |

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## Mechanical Outline (KMU137145Bxx)

