



# TTI-BUC-GaN-KU-1314B

## GaN-based Ku Band BUCs



**GaN-based BUCs** provide today's higher efficiency in a compact packaging. GaN-based Ku band BUCs portfolio offers solutions in a wide range of output powers (25, 50, 100 and 200W) with **high linear power** and **low phase noise and power consumption**. GaN-Ku-1314B BUCs series are **cost effective** solutions providing all the advantages of GaN technology at a very competitive price. GaN technology allows improving performance, reliability and energy saving.

### TECHNICAL SPECIFICATIONS

#### ELECTRICAL

	25W	50W	100W	200W
Output Power (Psat typ)	44 dBm	47 dBm	50 dBm	53 dBm
Linear Power	42 dBm	45 dBm	48 dBm	41 dBm
Input frequency range	950 MHz – 1700 MHz			
Output frequency range (electronically switchable)	13.75 - 14.5 GHz L.O. 12.80 GHz 14 - 14.5 GHz L.O. 13.05 GHz			
Gain	> 65 dB			
Gain Flatness	3dB p-p, max over full band, 1 dB p-p dB/40Mhz			
Gain variation over temperature	± 1.5 dB over full operating range			
Attenuation Adjustment Range	20dB in 0,25dB step			
Input VSWR	≤1.5:1			
Output VSWR	≤2:1			
Third Order IMD (2 Tones)	-25 dBc two signal 5 MHz apart @ Linear Power			
Spectral Regrowth	30 dBc @ Linear Power			
Noise figure	15 dB			
Spurious	-60dBc max @ Linear Power			
Harmonics	≤ 50 dBc			
Phase noise	-65 dBc/Hz at 100 Hz -80 dBc/Hz at 1 kHz -90 dBc/Hz at 10 kHz -95 dBc/Hz at 100 kHz			

#### POWER SUPPLY

	25W	50W	100W	200W
Input voltage	25 VDC (option 48VDC)			
Power consumption @Psat	140W	260W	550W	950W
Power consumption @Plinear	110W	205W	450W	760W

#### INTERFACES & PHYSICAL

	25W	50W	100W	200W
Dimensions (L x W x H)	225 x 175 x 145 mm	225 x 175 x 145 mm	275 x 180 x 210 mm	375 x 310 x 145 mm
Weight	5 Kg	5 Kg	9 Kg	15 Kg
RF Input interface	Type N			
RF Output interface	WR-75			
Monitor & Control interface	MIL-C-26482-I compatible, Size 14, 19 pins female			
Power supply interface	MS3112E12-3P			

#### ENVIRONMENTAL

	25W	50W	100W	200W
Operating temperature	-40°C to +55 °C			
Storage temperature	-40°C to +85°C			
Humidity	100% Condensing			

(\* ) 48VDC optional (BUC 100W): Dimensions 275 x 180 x 155 mm, Weight 7Kg.



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