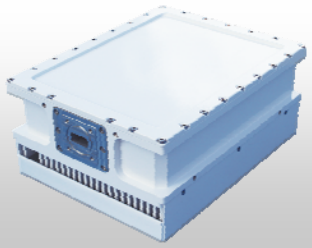
TTI-miniBUC-GaN-KU-1314

GaN-based Ku Band miniBUCs



GaN-based miniBUCs provide today's higher efficiency in a very integrated and compact packaging. GaN-based Ku band miniBUCs are available with output powers of 25W and 50W, providing high linear power and low phase noise and power consumption. GaN technology allows improving performance, reliability and energy saving.

TECHNICAL SPECIFICATIONS

ELECTRICAL

	25W	50W
Output Power (Psat typ)	44 dBm	47 dBm
Linear Power	42 dBm	45 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	≤2.0:1	
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 -85 dBc/Hz at 1 kHz -90 dBc/Hz at 10 kHz -95 dBc/Hz at 100 kHz	

POWER SUPPLY

	25W	50W
Input voltage	24VDC (option 48VDC)	
Power consumption @Psat	140W	260W
Power consumption @Plinear	110W	205W

INTERFACES & PHYSICAL

	25W	50W
Dimensions (L x W x H)	225 x 175 x 105 mm	
Weight	4 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
Operating temperature	-40ºC to +55 ºC (optional -40ºC to +60ºC)	
Storage temperature	-40ºC to +85ºC	
Humidity	100% Condensing	

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