

BOVI57 16 GHz Phase Locked Oscillator

MAIN FEATURES

- 16 GHz output frequency
- Very low phase noise
- Very low spurious level
- Built-in high stability frequency reference
- Compact size



DESCRIPTION

The BOVI57 is a high performance frequency synthesizer intended for use in professional applications, where excellent phase noise, low spurious level, compact size and wide operating temperature range are important factors. This signal source can be used in telecommunications, satellite communications, military applications and laboratory testing. The BOVI57 has low output level variation over temperature.

SPECIFICATIONS

RF PARAMETERS			
Output frequency		16000 MHz	
Frequency accuracy		≤±0.5ppm @ +25°C	
Frequency stability		≤± 0.3 ppm within temperature range	
Frequency drift / day		≤±0.05 ppm / day at constant temperature	
Frequency aging		≤±1.5 ppm in first year and ≤±5 ppm for 10 years	
RF output impedance		50 Ω	
RF output VSWR		≤ 1.5:1	
RF output power		≥+15dBm in full operating temp. range (+17dBm typ.)	
Spurious		-80dBc typically, ≤-70dBc	
Subharmonics		-60dBc typically, ≤-50dBc	
Harmonics		-40dBc typically, ≤-30dBc	
SSB phase noise	@ 100 Hz	-72dBc/Hz typ., ≤-66@100Hz	
	@ 1 kHz	-95dBc/Hz typ., ≤-89@1kHz	
	@ 10 kHz	-104dBc/Hz typ., ≤-98@10kHz	
	@ 100 kHz	-110dBc/Hz typ., ≤-105@100kHz	
	@ 1 MHz	-135dBc/Hz typ., ≤-129@1MHz	
Alarm signal		TTL level, "High" in LOCK, "Low" in UNLOCK	
Power supply voltage		+12V±1V DC	
Current consumption		280mA typically, 320mA max. @+12V DC	
MECHANICAL PARAMETERS			
Dimensions		57 mm x 70 mm x 15 mm (excluding connectors)	
Surface finish		Nickel plating	
RF output connector		SMA-type female	
Alarm connector		Feed through capacitor	
Power connector		Feed through capacitor	
GND		Solder terminal	

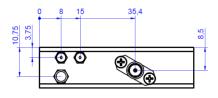


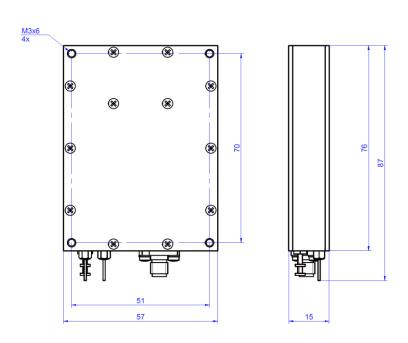
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ENVIRONMENTAL PARAMETERS				
Operating temperature range	- 20 °C + 60°C			
Storage temperature range	- 40 °C + 80°C			
Relative humidity	≤95 % (non-condensing)			

Specifications are subject to change without notice.

OUTLINE DRAWING (mm)





ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
BOVI57K10728	BOVI57 Ku-band, 16000 MHz, low noise PLO with int. ref.

DOCUMENT REVISION

DOCUMENT NAME	REVISION	DATE
BOVI57-LM-K10728	V01	2023-03-30



