BOWEI OXK40 OCXO Datasheet

http://www.manuallib.com/bowei/oxk40-ocxo-datasheet.html

Features

- Low phase noise
- High frequency stability
- Good performance under vibration
- SC cut crystal with TO-5 package
- External EMI filter

BOWEI

NEW OXK40 series

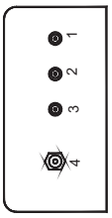
Low phase noise,Anti-vibration OCXO

BOWEI INTEGRATED CIRCUITS CO.,LTD.

Features

- Good performance under vibration
- Low phase noise
- External EMI filter
- High frequency stability
- SC cut crystal with TO-5 package

MP4040



Pin function

1:Power supply
2:Ground
3:Reference voltage output or NC
4:RF output

Electrical specification

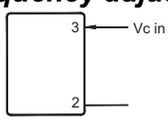
Parameter			Characteristic	
Power supply			＋12V±5%(option＋15V)	
Frequency range			40～120MHz	
Frequency stability		Vs。temperature	±0.05～±0.5ppm(see the table)	
		Vs。supply changes	±0.01ppm（Max）/Vdc±5%	
		Vs。Ageing	±0.2～±0.5ppm/1st year (Max)	
output	Sinewave	Level	+10dBm/50Ω	
		Harmonics	≤-25dBc	
		Non-Harmonic Suppression	≤-70dBc	
Phase noise 100MHz The worse axis			Static	Vibration(methodB)
		10Hz	-100 dBc/Hz	See detail method
		100Hz	-130 dBc/Hz	See detail method
		1KHz	-155 dBc/Hz	-140dBc/Hz
		10KHz	-165 dBc/Hz	-160dBc/Hz
		100KHz	-170 dBc/Hz	-165dBc/Hz
Operation temperature range			Different range(see the table)	
Input power			4W/1.8W(Max)@25℃	
Storage temperature range			-55～＋85℃	
Dimension			40mm*40mm*20mm	

Frequency temperatureStability (ppm)

	±0.05	±0.1	±0.2	±0.5
0～50℃	JP	HP	GP	FP
-10～60℃	JQ	HQ	GQ	FQ
-20～70℃	JR	HR	GR	FR
-30～70℃	JS	HS	GS	FS
-40～70℃	JT	HT	GT	FT
-40～85℃			GU	FU
-55～85℃				FW

* please contact the factory

Outside frequency adjustment



with control voltage

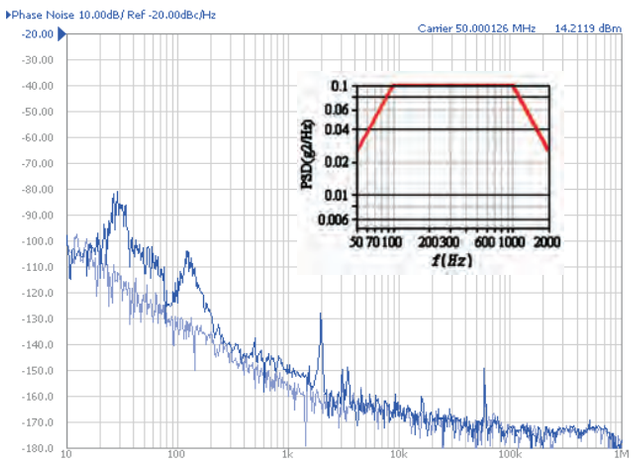
Absolute maximum ratings

Supply voltage---＋16V

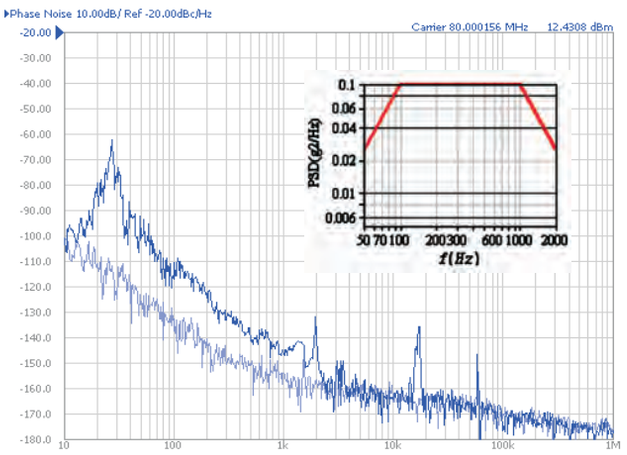
Storage temperature---＋105℃

Application notes please see OXK581 series

Note: The following phase noise are the worse one among three axis at 1KHz offset frequency



Phase noise vs. Offset frequency @50MHz/Random vibration method D RMS acceleration G_{rms}=11.95 g



Phase noise vs. Offset frequency @80MHz/Random vibration method D RMS acceleration G_{rms}=11.95 g