

Fixed Frequency Synthesizer

8-16 GHz



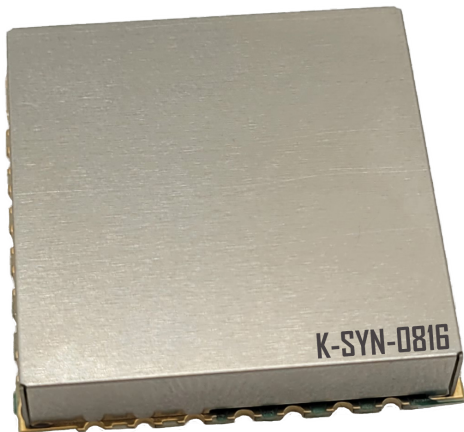
Product Datasheet

K-SYN-0816

Fixed frequency Microwave Synthesizer.

Overview

The K-SYN-0816 is a low-phase noise, fixed frequency band Microwave Frequency Synthesizer. This product comes in a tiny surface mount package measuring 25.4 mm x 25.4 mm x 6.35 mm. The frequency of the synthesizer is custom in the range of 8-16 GHz.



Features

- Fixed frequency in the range of 8-16 GHz
- -103 dBm/ Hz phase noise at 10 KHz
- 25.4 x 25.4 mm surface mount package
- 0 dBm output power
- Low reference spurs (<-80 dBc)
- Reference signal input 10 MHz, 100 MHz or custom on request



Applications

- Satellite communications
- Radar
- Mobile communications
- 5G

Physical Specifications

Parameter	Typ	Unit
Size	25.4 x 25.4 x 6.35	mm
Weight	4	grams

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Specification Overview

Parameter	Typ	Unit
Frequency Range ¹	8-16	GHz
Phase Noise ²		
1 kHz	-93	dBc/Hz
10 kHz	-103	dBc/Hz
100 kHz	-107	dBc/Hz
1 MHz	-121	dBc/Hz
Power Supply @ 3.3 V	250	mA
Power Supply @ 5.0 V	150	mA
Output Power	1 ±2	dBm
Load Impedance	50	Ω
Spurious	<-80	dBc
Harmonics ³	-25	dBc
Subharmonics ³	-25	dBc
Reference Signal Input ⁴	10 / 100 / Custom on request	MHz
Operating Temperature	-40 to +85	°C

Specification References

1. Can operate up to 16.8 GHz but not guaranteed.
2. 16 GHz carrier with 200 MHz step size. Lower frequencies have better phase noise performance. The phase noise degrades with a lower step size.
3. Please contact us for detailed harmonics/subharmonics suppression.
4. Should be lower than 200 MHz.

Contact Information

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