

**GENERAL DESCRIPTION**

The LIN-26300-02 is a fixed frequency synthesizer that features ultra-low phase noise and spurious performance. Exceptional close-in phase noise performance makes it ideal for high performance satellite systems.



**LIN-26300-02 FEATURES**

- Connectorized Package (3.5" x 2.5" x 1.0")
- Available in frequencies between 5 GHz and 30 GHz
- Output power of +20 dBm
- Harmonics less than -20 dBc
- Spurs less than -60 dBc

**APPLIED INDUSTRIES**



Test & Measurement



Automated Test Equipment



Instrumentation

**LIN SERIES OPTIONS**

- Frequencies between 5 GHz and 30 GHz
- Ultra-Low Phase noise
- Output power to 20 dBm

**LIN SERIES TYPICAL APPLICATIONS**

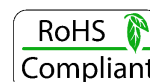
- Laboratory
- Test and measurement
- Automated test equipment
- Instrumentation

**ELECTRICAL SPECIFICATIONS**

Frequency	26300 MHz
Stability	Same as Reference
Reference	100 MHz
Ref. Input Imp.	50 Ω
Output Power	+20 dBm ±2 dB, 50 OHMS
Harmonics	<-20 dBc MAX
Sub Harmonics	<-60 dBc TYP, <-55 dBc MAX
Spurs	<-60 dBc MAX
VCC	+12V ±0.5V @ 0.80A MAX

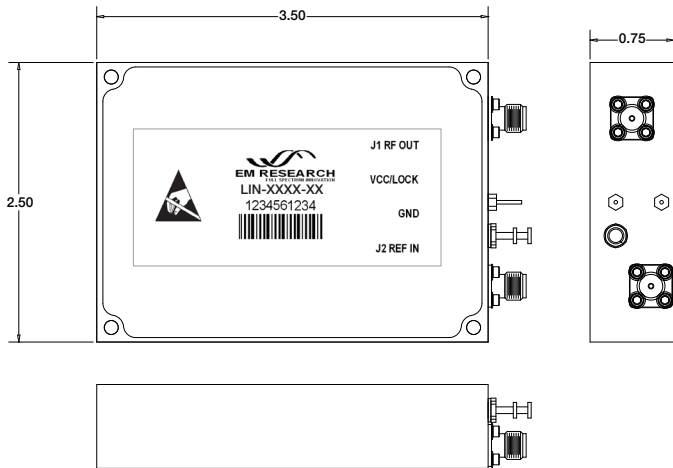
Phase Noise (TYP)	10 Hz	-51 dBc/Hz
	100 Hz	-84 dBc/Hz
	1 KHz	-100 dBc/Hz
	10 KHz	-109 dBc/Hz
	100 KHz	-109 dBc/Hz
	1 MHz	-124 dBc/Hz
	10 MHz	-140 dBc/Hz
Lock Detect	5V TTL, HIGH=LOCK	

All specifications are typical unless otherwise specified and subject to change without notice.





**PACKAGE OUTLINE**



**PIN DESCRIPTIONS**

J1	RF OUT	Female 2.92 mm
J2	REF IN	Female SMA
J3	VCC	Filtered Feedthrough
J4	GND	Threaded Lug
J5	LOCK DETECT	Filtered Feedthrough

All dimensions are in inches unless otherwise specified  
.XX = +/- 0.01.

**ENVIRONMENTAL SPECIFICATIONS**

Standard Operating Temperature	0°C to +50°C
Optional Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +125°C

**MECHANICAL SPECIFICATIONS**

REF & RF Connector	Female SMA
I/O	Filtered Feedthrus
Package	Connectorized, 3.5" x 2.5" x 1.0"
Package Outline	EM Drawing 2200022004
Part Label	EM Drawing 8000062001

Custom designs are available. Please contact EM Research.



**DETAILS**

Title	Programmable Frequency Synthesizer Part No. LIN-26300-02
File	SPC-LIN-26300-02-REVA
Scale	N/A
Size	A
Rev.	A

**APPROVALS**

Department	Date
DWN: Kielely Smith	8/31/2020
QA: Susan Zandonella	8/12/2020
MKTG: Sandi Renden	8/18/2020
ENG: Matt Anthony	8/21/2020
MFG: Nick Hicks	8/18/2020
Other: Connor VanKalmthout	8/19/2020

**REVISION HISTORY**

Rev.	Description	Date	Approved
A	Configurable Product	8/21/2020	DCR# 2004583

**NOTES**