

**GENERAL DESCRIPTION**

The SLX-2400-05 is a fixed frequency synthesizer in a sub-miniature, surface mount package (0.5" Square). Part of EM Research's smallest size synthesizer series, this SLX features low power consumption and a fixed frequency output of 2400 MHz.



**SLX-2400-05 FEATURES**

- Sub-miniature, surface mount package (0.5" Square)
- Low power consumption
- Fixed programming
- Output power of +7 dBm
- Harmonics less than -10 dBc

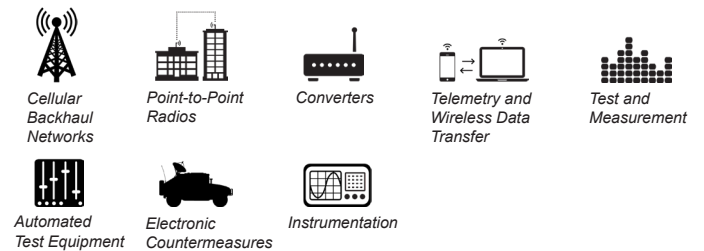
**SLX SERIES OPTIONS**

- Fixed frequencies up to 8 GHz
- Buffered output power

**ELECTRICAL SPECIFICATIONS**

Frequency	2400 MHz
Stability	Same as Reference
Reference	10 MHz, 3 dBm ±3 dB
Ref. Input Impedance	50 Ω
Output Power	+7 dBm ± 2 dB, 50 Ω
Harmonics	<-10 dBc

**APPLIED INDUSTRIES**

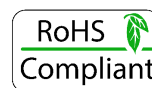


**SLX SERIES TYPICAL APPLICATIONS**

- Cellular and Radio Communications
- Instrumentation Component
- Test and Measurement Reference

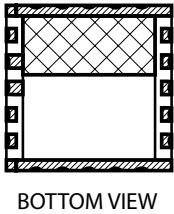
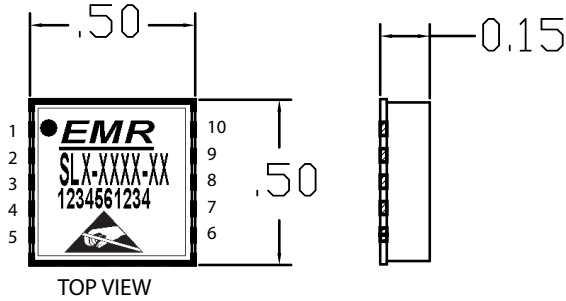
Spurs	<-60 dBc
Phase Noise	10 KHz <-85 dBc/Hz TYP
	100 KHz <-105 dBc/Hz TYP
D-VCC	+5 V ±0.15 V @ 15 mA TYP
A-VCC	+5 V ±0.15 V @ 45 mA TYP
Lock Detect	3.3V TTL, HIGH=LOCK

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



HIGHEST QUALITY • COMPREHENSIVE SERVICE • BEST PERFORMANCE

**PACKAGE OUTLINE**



**PIN DESCRIPTIONS**

1	LOCK	7	A-VCC
2-4	NC	8-9	GND
5	REF IN	10	D-VCC
6	RF OUT	All other pins are ground	

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

**ENVIRONMENTAL SPECIFICATIONS**

Standard Operating Temperature	-30°C to +70°C
Optional Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +125°C

**MECHANICAL SPECIFICATIONS**

Package	SMT, 0.5" x 0.5" x 0.15"
Package Outline	EM Drawing 2200003002
Part Label	EM Drawing 8000023001

Custom designs are available. Please contact EM Research.



**DETAILS**

Title	Fixed Frequency Synthesizer Part No. SLX-2400-05
File	SPC-SLX-2400-05-REVA
Scale	N/A
Size	A
Rev.	A

**APPROVALS**

Department	Date
DWN: Kielely Smith	4/5/21
QA: Susan Zandonella	3/23/21
MKTG: Annie Paquette	3/25/21
ENG: Matt Anthony	3/25/21
MFG: Nick Hicks	3/25/21
Other: Connor VanKalmthout	3/30/21

**REVISION HISTORY**

Rev.	Description	Date	Approved
A	Configurable Product	3/30/21	DCR# 2104965

**NOTES**