

## GENERAL DESCRIPTION

The SLX-406-76 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 406.037 MHz.



## SLX-406-76 FEATURES

- Sub-miniature, surface mount package (0.5" Square)
- Low power consumption
- Fixed programming
- Output power of +2 dBm
- Harmonics less than -10 dBc
- Miniature footprint

## SLX SERIES OPTIONS

- Fixed frequencies up to 8 GHz
- Buffered output power
- Inquire for additional options

## ELECTRICAL SPECIFICATIONS

Frequency	406.037 MHz
Reference	10 MHz
Ref. Input Impedance	50 $\Omega$
Output Power	+2 dBm, $\pm 2$ dB
Harmonics	<-10 dBc
Spurs	<-55 dBc

## APPLIED INDUSTRIES



SatCom



Aerospace



Military



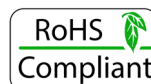
Aviation and  
Unmanned Systems

## SLX SERIES TYPICAL APPLICATIONS

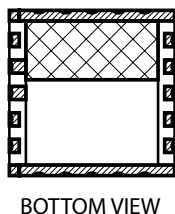
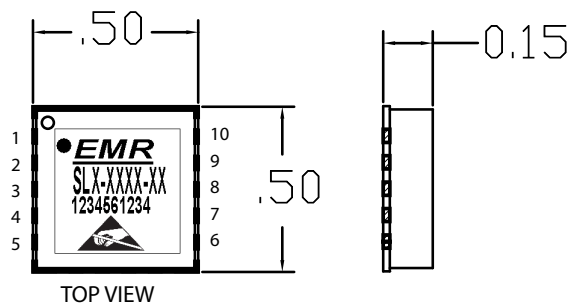
- Aircraft Based Equipment
- Aviation and Unmanned Systems
- Military
- Satellite Communications Networks

Phase Noise	10 KHz	<-90 dBc/Hz TYP
	100 KHz	<-105 dBc/Hz TYP
D-VCC	+3.3 V @ 5 mA TYP	
A-VCC	+3.3 V @ 25 mA TYP	
Lock Detect	TTL, HIGH=LOCK	

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



## 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 2200003005
Part Label	EM Drawing 8000023001

Custom designs are available. Please contact EM Research.



#### DETAILS

Title	Fixed Frequency Synthesizer Part No. SLX-406-76
File	SPC-SLX-406-76-REVA
Scale	N/A
Size	A
Rev.	A

#### APPROVALS

Department	Date
DWN: Kieley Smith	6/19/23
QA: Susan Zandonella	6/16/23
MKTG: Nick Hicks	6/8/23
ENG: Matt Anthony	6/13/23
MFG: Louie Macias	5/16/23
Other:	

#### REVISION HISTORY

Rev.	Description	Date	Approved
A	Configurable Product	6/19/23	DCR# 2305434

#### NOTES