

# LX Series

## PRODUCT SERIES OVERVIEW

# 0.75" Fixed-Frequency Synthesizer

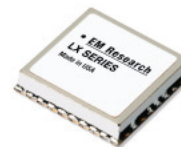
## 50 MHz to 8 GHz

### FEATURES

- Miniature, SMT Package (0.75" square)
- Optional Internal Reference
- Fixed-Frequencies to 8 GHz
- Output Power to +10 dBm Available



Custom Designs Available



### SPECIFICATIONS

Frequency Range ..... 50 MHz to 8 GHz  
 Bandwidth ..... Fixed  
 External Reference ..... 5 to 100 MHz  
 Internal Reference (Optional) .....  $\pm 2.5$  ppm, Stability  
 Power Output ..... up to +10 dBm  
 Harmonics ..... <-15 dBc  
 Spurs ..... <-60 dBc  
 Supply Options ..... +3, +3.3, +5 VDC  
 Current .....  $\leq 100$  mA

Phase Noise (dBc/Hz)	4000 MHz	8000 MHz
1 KHz Offset .....	<-95	<-88
10 KHz Offset .....	<-95	<-89
100 KHz Offset .....	<-106	<-100
1 MHz Offset .....	<-129	<-128

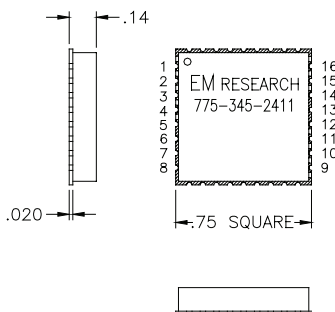
#### Temperature Ranges (Operating)

Standard ..... -20°C to +60°C  
 Other Available Ranges ..... -30°C to +70°C  
 ..... -40°C to +85°C

Package Size ..... 0.75" x 0.75" x 0.15"  
 ..... (19 x 19 x 3.8)mm

Note: All specifications are typical unless otherwise specified and subject to change without notice. Not all performance parameters are available in combination with certain specifications. E.G. Not all power output levels are available at all frequency ranges.

### PACKAGE OUTLINE



#### Notes:

1. Tape-and-Reel available for high volume quantities.
2. Demoboards and Reference Modules available.
3. All dimensions are in inches unless otherwise specified.
4. Diagrams and pictures shown are examples only.

LX Series\_Fixed\_Product Overview Datasheet, Rev A, 6.14.12