

## Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL:Sales@DynamicEng.com

LH5 @\$\$% 5 @ ÙT ÖÁÔ¦^• æ\$ÁN} ã•

#### **Features and Benefits**

2.0x1.6mm size ultra-miniature and lightweight SMD crystal units with low profile of 0.5mm
Frequency range from 16MHz to 54MHz
High precision and high frequency stability
Allowing for high density surface mounting
Automatic mounting and reflow soldering
RoHS Compliant /Pb Free

#### **Typical Applications**

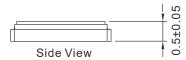
Wireless communications PC, IPAD, PDA, Wearable device, etc.

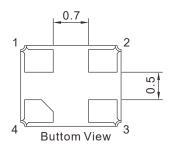
#### **Description**

XTAL2016AL offers frequency range from 16MHz to 54MHz, High precision and high frequency stability, Allowing for high density surface mounting, Ideally suited designed for use in Portable Applications.

#### **Mechanical Drawing & Pin Connections**

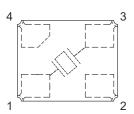
2.0±0.1 4 Top View 2



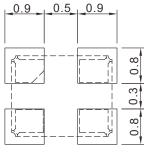


**Drawing No:** 

MD2000%0-1



Top View Crystal Connection



Suggested Layout

Unit in mm 1mm = 0.0394 inches



# Dynamic Engineers Inc.

**LH5 @&\$%\* 5 @** ÙT ÖÁÔ¦^• æ‡ÁN} ã•

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL:Sales@DynamicEng.com

### **Specifications**

Oscillator Specification	Sym	Condition	Value			1124	Note
			Min.	Typ.	Max.	Unit	Note
Frequency Range	F		16		54	MHz	
Load Capacitance			8pF, 10pF, or specify			pF	
Shunt Capacitance	C0				5	pF	
Drive Level			1	50	200	uW	
Equivalent Series Resistance (Fundamental)		16~19.2 MHz			200	ohm	
		19.2~30 MHz			100	ohm	
		30~54 MHz			80	ohm	
Frequency Stability					•		
Frequency Stability		Over Operating Temperature	±10ppm, ±20ppm, or specify			ppm	
Frequency Tolerance		(at 25°ℂ)	±10ppm, ±20ppm, or specify			ppm	
Aging		@+25°C 1st year			±3	ppm	
<b>Environmental Conditions</b>							
Operating temperature range		-20°C to +70°C	•				•
Storage temperature range		-55°C to +125°C					