

Product Features:

Low Cost SMD Package
Low ESR
Compatible with Leadfree Processing

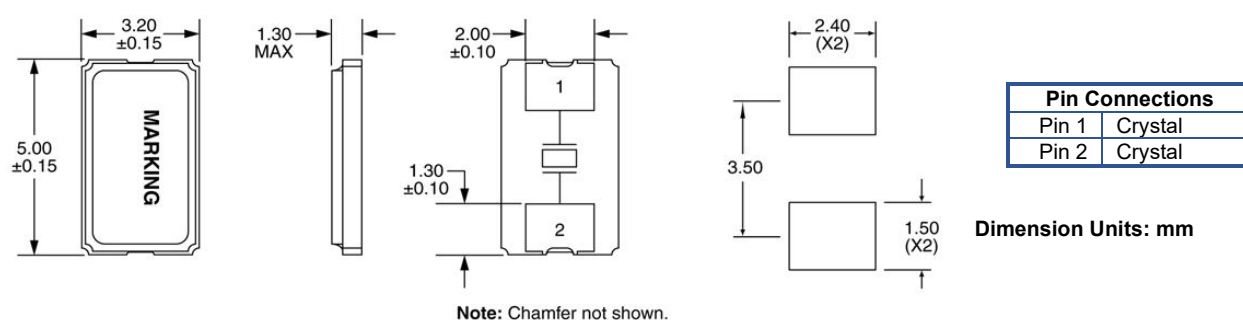
Applications:

Fibre Channel
Server & Storage
Sonet / SDH
802.11 / WiFi
T1/E1, T3/E3

Electrical Specifications:

Frequency	8MHz to 150MHz
Equivalent Series Resistance	
8MHz – 9.999999MHz	100 Ohms Maximum
10MHz – 11.999999MHz	80 Ohms Maximum
12MHz – 15.999999MHz	60 Ohms Maximum
16MHz – 19.999999MHz	50 Ohms Maximum
20MHz – 23.999999MHz	40 Ohms Maximum
24MHz – 50MHz	30 Ohms Maximum
30MHz – 150MHz (Third Overtone)	80 Ohms Maximum
Shunt Capacitance (C0)	5pF Maximum
Frequency Tolerance (at 25°C)	±50ppm, ±30ppm, ±25ppm, ±20ppm, ±15ppm, or ±10ppm
Frequency Stability (over Temperature)	±50ppm, ±30ppm, ±25ppm, ±20ppm, ±15ppm, or ±10ppm
Mode of Operation	
8MHz – 50MHz	Fundamental
30MHz – 150MHz	Third Overtone
Crystal Cut	AT Cut
Load Capacitance	8pF to 32pF or Specify
Drive Level	100µW Maximum
Aging	±5ppm/Year Maximum
Operating Temperature Range	See Part Number Guide
Storage Temperature Range	-40°C to +85°C

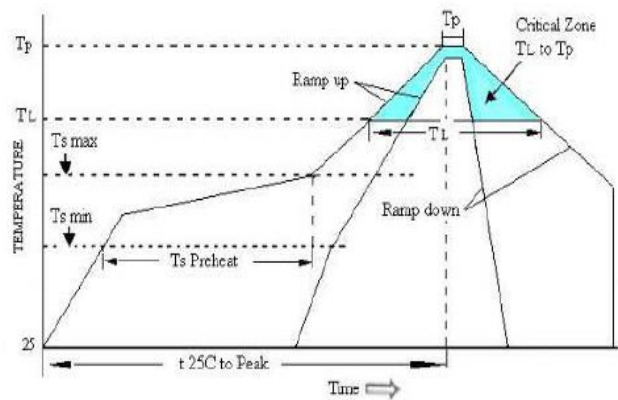
Mechanical and Solder Pad Dimensions:



Part Number Guide		Sample Part Number: ILCX07A – FB1F18 – 20.000 MHz				
Package	Frequency Tolerance	Frequency Stability	Operating Temperature Range	Mode of Operations	Load Capacitance	Frequency
ILCX07A	B = ±50ppm	B = ±50ppm	0 = 0°C to +50°C	F = Fundamental	8pF to 32pF or Specify	20.000 MHz
	F = ±30ppm	F = ±30ppm	1 = 0°C to +70°C	3 = Third Overtone		
	G = ±25ppm	G = ±25ppm	2 = -10°C to +60°C			
	H = ±20ppm	H = ±20ppm	3 = -20°C to +70°C			
	I = ±15ppm	I = ±15ppm*, **	5 = -40°C to +85°C			
	J = ±10ppm*	J = ±10ppm*, **	9 = -10°C to +50°C			
			D = -10°C to +105°C*			
			E = -40°C to +105°C*			

* Not available at all frequencies. ** Not available for all temperature ranges.

Pb Free Solder Reflow Profile:



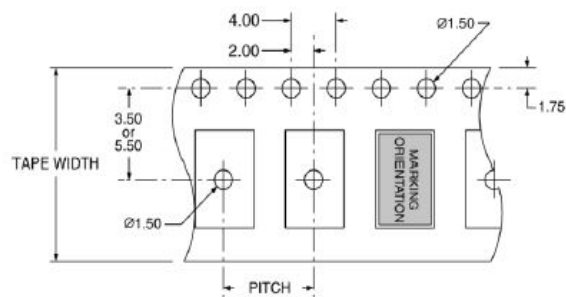
Ts max to T _L (Ramp-up Rate)	3°C / second max
Preheat	
Temperature min (Ts min)	150°C
Temperature typ (Ts typ)	175°C
Temperature max (Ts max)	200°C
Time (Ts)	60 to 180 seconds
Ramp-up Rate (T _L to T _p)	3°C / second max
Time Maintained Above Temperature (T _L)	217°C
Time (T _L)	60 to 150 seconds
Peak Temperature (T _p)	260°C max for 10 seconds
Time within 5°C to Peak Temperature (T _p)	20 to 40 seconds
Ramp-down Rate	6°C / second max
Time 25°C to Peak Temperature	8 minutes max

Units are backward compatible with +240°C reflow processes

Package Information:

MSL = 1 (package does not contain plastic, storage life is unlimited under normal room conditions).
Termination = e4 (Au over Ni over W base metallization).

Tape and Reel Information:



PITCH	8.00
TAPE WIDTH	12.00
REEL DIA	180
QTY PER REEL	1,000

Dimensions Units: mm

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ABRACON:

<u>ILCX07-FF5F18-8.000MHz</u>	<u>ILCX07-HH3F18-10.000MHz</u>	<u>ILCX07-FF5F18-20.000MHz</u>	<u>ILCX07-FF3F18-20.000MHz</u>
<u>ILCX07-FF3F18-10.000MHz</u>	<u>ILCX07-HH3F18-24.000MHz</u>	<u>ILCX07-FF5F18-12.000MHz</u>	<u>ILCX07-FF3F18-24.000MHz</u>
<u>ILCX07-HH3F18-12.000MHz</u>	<u>ILCX07-FF5F18-10.000MHz</u>	<u>ILCX07-HH3F18-16.000MHz</u>	<u>ILCX07-FF3F18-16.000MHz</u>
<u>ILCX07-HH3F18-20.000MHz</u>	<u>ILCX07-FF5F18-16.000MHz</u>	<u>ILCX07-HH3F18-8.000MHz</u>	<u>ILCX07-FF3F18-8.000MHz</u>
<u>ILCX07-FF5F18-24.000MHz</u>	<u>ILCX07-FF3F18-12.000MHz</u>		