

Product Features:

SMD Package
Small package Footprint
Supplied in Tape and Reel
Compatible with Leadfree Processing
Fundamental Mode up to 60MHz

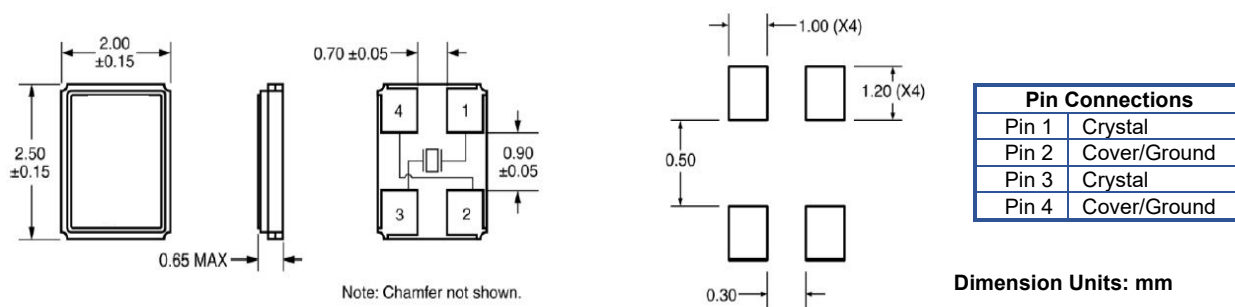
Applications:

PCMCIA Cards
Storage
PC's
GSM Cell Phone
Wireless Lan
USB
GSM Cell Phone

Electrical Specifications:

Frequency	12MHz to 60MHz
Equivalent Series Resistance	
12MHz – 19.999999MHz	100 Ohms Maximum
20MHz – 29.999999MHz	80 Ohms Maximum
30MHz – 39.999999MHz	60 Ohms Maximum
40MHz – 60MHz	40 Ohms Maximum
Shunt Capacitance (C0)	3.5pF 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	Fundamental
Crystal Cut	AT Cut
Load Capacitance	8pF to 32pF or Specify
Drive Level	100µW Maximum
Aging	±3ppm/Year Maximum
Operating Temperature Range	See Part Number Guide
Storage Temperature Range	-40°C to +125°C

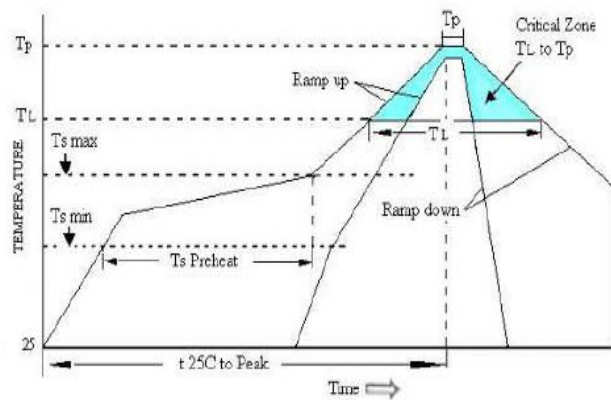
Mechanical and Solder Pad Dimensions:



Part Number Guide		Sample Part Number: ILCX18 - FB1F18 - 20.000 MHz				
Package	Frequency Tolerance	Frequency Stability	Operating Temperature Range	Mode of Operations	Load Capacitance	Frequency
ILCX18 -	B = ±50 ppm	B = ±50 ppm	0 = 0°C to +50°C	F = Fundamental	8pF to 32pF or Specify	-20.000MHz
	F = ±30 ppm	F = ±30 ppm	1 = 0°C to +70°C			
	G = ±25 ppm	G = ±25 ppm	2 = -10°C to +60°C			
	H = ±20 ppm	H = ±20 ppm	3 = -20°C to +70°C			
	I = ±15 ppm	I = ±15 ppm**	5 = -40°C to +85°C			
	J = ±10 ppm*	J = ±10 ppm**	8 = -30°C to +85°C			
			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

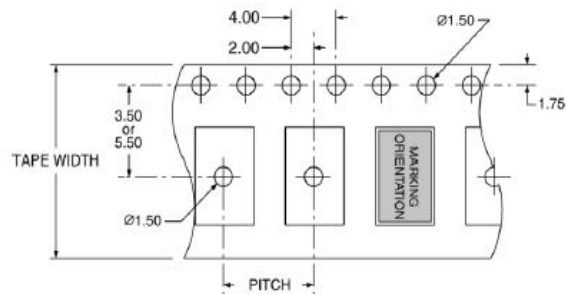
Units are backward compatible with +240°C reflow processes

Package Information:

MSL = 1

Termination = e4 (Au over Ni over W base metallization).

Tape and Reel Information:



PITCH	4.00
TAPE WIDTH	8.00
REEL DIA	180
QTY PER REEL	3,000

Mouser Electronics

Authorized Distributor

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

ABRACON:

<u>ILCX18-FF3F12-20.000MHz</u>	<u>ILCX18-FF5F18-32.000MHz</u>	<u>ILCX18-HH3F18-25.000MHz</u>	<u>ILCX18-HH3F18-30.000MHz</u>
<u>ILCX18-FF3F12-48.000MHz</u>	<u>ILCX18-FF3F18-16.000MHz</u>	<u>ILCX18-FF3F18-48.000MHz</u>	<u>ILCX18-FF5F12-16.000MHz</u>
<u>ILCX18-FF5F18-40.000MHz</u>	<u>ILCX18-HH3F18-27.000MHz</u>	<u>ILCX18-HH3F18-32.000MHz</u>	<u>ILCX18-HH3F18-40.000MHz</u>
<u>ILCX18-HH3F12-16.000MHz</u>	<u>ILCX18-HH3F18-16.000MHz</u>	<u>ILCX18-HH3F18-24.000MHz</u>	<u>ILCX18-FF3F12-16.000MHz</u>
<u>ILCX18-FF3F18-32.000MHz</u>	<u>ILCX18-FF3F18-40.000MHz</u>	<u>ILCX18-HH3F12-48.000MHz</u>	<u>ILCX18-HH3F18-20.000MHz</u>
<u>ILCX18-FF3F18-27.000MHz</u>	<u>ILCX18-FF5F12-24.000MHz</u>	<u>ILCX18-FF5F18-24.000MHz</u>	<u>ILCX18-FF5F18-27.000MHz</u>
<u>ILCX18-FF3F12-25.000MHz</u>	<u>ILCX18-FF5F12-25.000MHz</u>	<u>ILCX18-HH3F12-25.000MHz</u>	<u>ILCX18-FF3F18-25.000MHz</u>
<u>ILCX18-FF3F18-30.000MHz</u>	<u>ILCX18-FF5F18-20.000MHz</u>	<u>ILCX18-FF3F12-24.000MHz</u>	<u>ILCX18-FF3F12-27.000MHz</u>
<u>ILCX18-FF3F12-32.000MHz</u>	<u>ILCX18-FF5F18-16.000MHz</u>	<u>ILCX18-FF5F18-30.000MHz</u>	<u>ILCX18-FF5F18-48.000MHz</u>
<u>ILCX18-HH3F18-48.000MHz</u>	<u>ILCX18-FF3F18-24.000MHz</u>	<u>ILCX18-FF5F12-27.000MHz</u>	<u>ILCX18-HH3F12-24.000MHz</u>
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