ILCX07A Series



Product Features:

Low Cost SMD Package Low ESR Compatible with Leadfree Processing

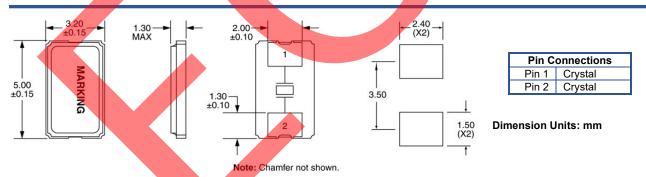
Applications:

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		
requency 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:



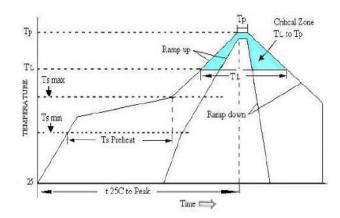
Part Numb	er Guide	Sample Part Number: ILCX07A - FB1F18 - 20.000 MHz				
Package	Frequency Tolerance	Frequency Stability	Operating Temperature Range	Mode of Operations	Load Capacitance	Frequency
	$B = \pm 50$ ppm	B = ±50ppm	$0 = 0^{\circ}\text{C to } +50^{\circ}\text{C}$	F = Fundamental		
	F = ±30ppm	F = ±30ppm	1 = 0°C to +70°C	3 = Third Overtone		
ILCX07A-	G = ±25ppm	G = ±25ppm	2 = -10°C to +60°C		8pF to 32pF or	20.000 MHz
	H = ±20ppm	H = ±20ppm	3 = -20°C to +70°C			
	I = ±15ppm	I = ±15ppm*, **	5 = -40°C to +85°C		Specify	20.000 WII IZ
	$J = \pm 10ppm^*$	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.

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Pb Free Solder Reflow Profile:



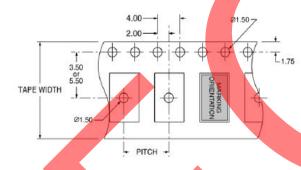
3°C / second max	
onds	
max	
217°C	
onds	
r 10	
20 to 40 seconds	
8 minutes max	

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