ILCX19 Series

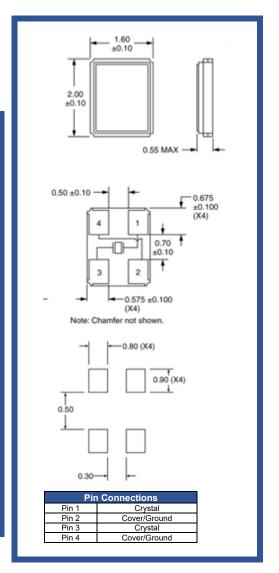


Product Feature:

SMD Package Small package Foot Print Supplied in Tape and Reel Compatible with Leadfree Processing Applications:

PCMCIA Cards Storage PC's Wireless Lan

Frequency	16MHz to 72MHz	
ESR (Equivalent Series Resistance) 16MHz – 23.999999MHz 24MHz – 25.999999MHz 26MHz – 72MHz	150 Ohms Maximum 80 Ohms Maximum 60 Ohms Maximum	
Shunt Capacitance (C0)	3pF Maximum	
Frequency Tolerance @ 25° C	(See Part Number Guide)	
Frequency Stability over Temperature	(See Part Number Guide)	
Mode of Operation	Fundamental	
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	



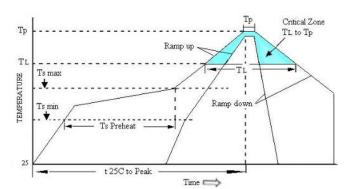
Part Number Guide Sampl		Sample Par	art Number: ILCX19 - FB1F18 - 20.000000 MHz			
Package	Tolerance (ppm) at Room Temperature	Stability (ppm) over Operating Temperature	Operating Temperature Range	Mode (overtone)	Load Capacitance (pF)	Frequency
ILCX19 -	B = ±50 ppm	B = ±50 ppm	0 = 0°C to +50°C	i F = Fundamental i ·	8pF to 32pF	- 20.000 MHz
	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		Or Specify	
	I = ±15 ppm	I = ±15 ppm**	5 = -40°C to +85°C			
	J = ±10 ppm*	J = ±10 ppm**	9 = -10°C to +50°C			

^{*} Not available at all frequencies. ** Not available for all temperature ranges.

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Pb Free Solder Reflow Profile:



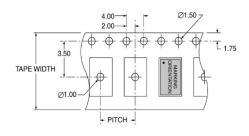
Ts max to T _∟ (Ramp-up Rate)	3°C / second max	
Preheat		
Temperature min (Ts min)	150°C	
Temperature typ (Ts typ)	175°C	
Temperature max (Ts max)	200°C	
Time (Ts)	60 to180 seconds	
Ramp-up Tate (T _∟ to Tp	3°C / second max	
Time Maintained Above		
Temperature (T _∟)	217°C	
Time (T _{L)}	60 to 150 seconds	
Peak Temperature (Tp)	260°C max for 10 seconds	
Time within 5°C to Peak	20 to 40 seconds	
Temperature (Tp)		
Ramp-down Rate	6°C / second max	
Tune 25°C to Peak Temperature	8 minutes max	

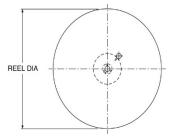
Units are backward compatible with 240C reflow processes

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 metal).

Tape and Reel Information:





Quantity per Reel	3000
Pitch	4.0 ±0.2
Tape Width	8.0 ±0.2
Reel DIA	180

Dimensions: mm