ILCX18 Series



Product Features:

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

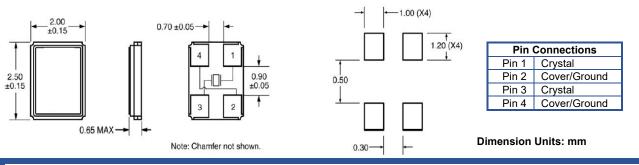
Applications:

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	Operation Fundamental		
Crystal Cut	AT Cut		
Load Capacitance	8pF to 32pF or Specify		
Drive Level	Level 100µW Maximum		
Aging	±3ppm/Year Maximum		
Operating Temperature Range	erating Temperature Range See Part Number Guide		
Storage Temperature Range	-40°C to +125°C		

Mechanical and Solder Pad Dimensions:



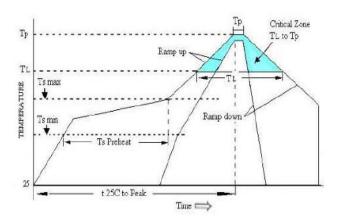
Part Numbe	r Guide	Sample Part Number: ILCX18 - FB1F18 - 20.000 MHz				
Package	Frequency	Frequency	Operating	Mode of Operations	Load	Frequency
_	Tolerance	Stability	Temperature Range	-	Capacitance	
	B = ±50 ppm	B = ±50 ppm	$0 = 0^{\circ}C \text{ to } +50^{\circ}C$	F = Fundamental		
	F = ±30 ppm	F = ±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		8pF to 32pF	
ILCX18 -	l = ±15 ppm	l = ±15 ppm**	5 = -40°C to +85°C		or Specify	-20.000MHz
	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.

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Pb Free Solder Reflow Profile:



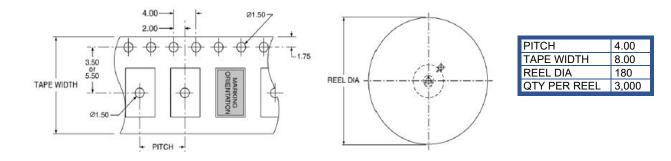
Units are backward compatible with +240°C reflow processes

Package Information:

MSL = 1

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

Tape and Reel Information:



Ts max to T _L (Ramp-up Rate)	3ºC / second max	
Preheat		
Temperature min (Ts min)	150°C	
Temperature typ (Ts typ)	175⁰C	
Temperature max (Ts max)	200°C	
Time (Ts)	60 to180 seconds	
Ramp-up Rate (T _L to Tp)	3°C / second max	
Time Maintained Above		
Temperature (T _L)	217⁰C	
Time (T∟)	60 to 150 seconds	
Peak Temperature (Tp)	260°C max for 10	
Peak Temperature (Tp)	seconds	
Time within 5°C to Peak	20 to 40 seconds	
Temperature (Tp)	20 10 40 Seconds	
Ramp-down Rate	6°C / second max	
Tune 25°C to Peak Temperature	8 minutes max	

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