ILCX20 Series

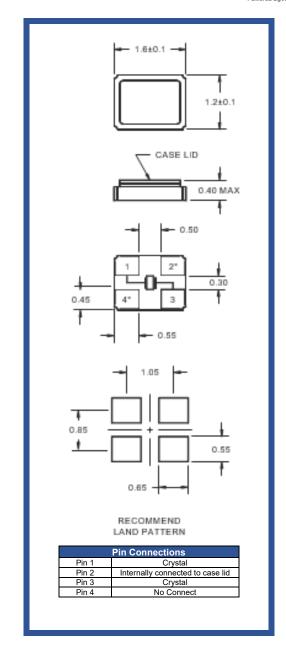


Product Feature:

Low Cost SMD Package Ultra-Miniature Package Compatible w/ Leadfree Processing RoHS compliant Applications:

Fiber Channel Server & Storage Sonet /SDH 802.11 / Wifi T1/E1, T3/E3 IoT

Frequency	24MHz to 60MHz
Equivalent Series Resistance 24.0MHz – 39.999999MHz 40.0MHz – 60.0MHz	150 Ohms Maximum 100 Ohms Maximum
Shunt Capacitance (C0)	3.5pF Maximum
Frequency Tolerance (at 25°C)	See Part Number Guide
Frequency Stability (over Temperature)	See Part Number Guide
Mode of Operation	Fundamental
Crystal Cut	AT Cut
Load Capacitance	18pF Standard
Drive Level	100μWatts Maximum
Aging	±3ppm/Year Maximum
Operating Temperature Range	See Part Number Guide
Storage Temperature Range	-40°C to +85°C

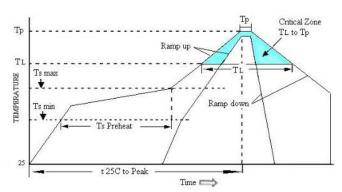


Part Number Guide		Sample Part Number: ILCX20-FB1F18- 20.000 MHz				
Package	Tolerance (ppm) at Room Temperature	Stability (ppm) over Operating Temperature	Operating Temperature Range	Mode (overtone)	Load Capacitance (pF)	Frequency
ILCX20-	B = ±50 ppm	B = ±50 ppm	0 = 0°C to +50°C	F = Fundamental '	40°E Oton doub	
	F = ±30 ppm	F = ±30 ppm	1 = 0°C to +70°C			- 20.000 MHz
	G = ±25 ppm	G = ±25 ppm	2 = -10°C to +60°C			
	H = ±20 ppm	H = ±20 ppm	3 = -20°C to +70°C		18pF Standard Or Specify	
	I = ±15 ppm	I = ±15 ppm**	5 = -40°C to +85°C		Of Opecity	
	J = ±10 ppm*	J = ±10 ppm**	7 = -30°C to +80°C			
			9 = -10°C to +50°C			

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



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 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	

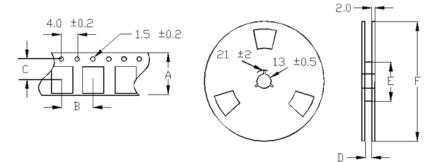
Units are backward compatible with 240C reflow processes

Package Information:

MSL = 1

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

Tape and Reel Information:



Quantity per Reel	3000
Α	8.0±0.3
В	4.0±0.2
С	3.5±0.2
D	9.0±1.0
E	60/80
F	180

Environmental Specifications: