

4 Pad Ceramic Crystal, 2.0 mm x 2.5 mm

Product Feature: SMD Package Small package Foot Print Supplied in Tape and Reel Compatible with Leadfree Process Fundamental Mode up to 80.0 MH		
Frequency	12.0 MHz to 80.0 MHz	
ESR (Equivalent Series Resistance)		C
12 MHz – 19.9 MHz 20 MHz – 29.9 MHz 30 MHz – 39.9 MHz 40 MHz – 60.0 MHz 60 MHz – 80.0 MHz	100 Ω Max. 80 Ω Max. 60 Ω Max. 40 Ω Max. 40 Ω Max	0.90
Shunt Capacitance (C0)	3.5 pF Max.	0.58
Frequency Tolerance @ 25° C	±30 ppm Standard (see Part Number Guide for more options)	T _=
Frequency Stability over Temperature	±50 ppm Standard (see Part Number Guide for more options)	*PIN 2 AN CONNECTED
Crystal Cut	AT Cut	BE CONN
Load Capacitance	18 pF Standard (see Part Number Guide for more options)	
Drive Level	100 µW Max.	
Aging	\pm 3 ppm Max. / Year Standard	1.00
Temperature		The second secon
Operating	0° C to +70° C Standard (see Part Number Guide for more options)	1
Storage	-40° C to +85° C Standard	DIN
Notos:		

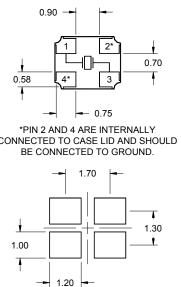


ILCX18 Series

2.00±0.10

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2.50±0.10

MARKING

(TOP VIEW)

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RECOMMEND LAND PATTERN

IMENSION IN mm

art Number Guid	е	Sample Part Number:	ILCX18 - FB1F			
Package	Tolerance (ppm) at Room Temperature	Stability (ppm) over Operating Temperature	Operating Temperature Range	Mode (overtone)	Load Capacitance (pF)	Frequency
	B = ±50 ppm B = ±50 ppm 0 = 0°C to +50°C	B = ±50 ppm B = ±50 ppm 0 = 0°C to +50°C				
ILCX18 -	F = ±30 ppm	F = ±30 ppm	1 = 0°C to +70°C	F = Fundamental		
	G = ±25 ppm	G = ±25 ppm	5 ppm 2 = -10°C to +60°C			
	H = ±20 ppm	H = ±20 ppm	3 = -20°C to +70°C		18 pF Standard	- 20.000 MH;
	l = ±15 ppm	I = ±15 ppm**	5 = -40°C to +85°C		Or Specify	- 20.000 MH
	J = ±10 ppm*	J = ±10 ppm**	9 = -10°C to +50°C			
			D = -10°C to +105°C*			
			E = -40°C to +105°C*			

** Not available for all temperature ranges.

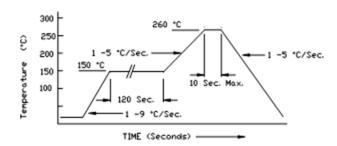
Notes:

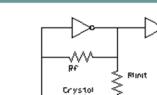


4 Pad Ceramic Crystal, 2.0 mm x 2.5 mm

Pb Free RoHS **ILCX18 Series**

Pb Free Solder Reflow Profile:





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Typical Application:

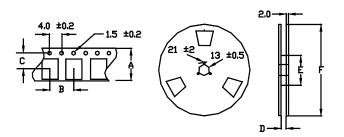
*Units are backward compatible with 240C reflow processes

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 or 12.0 ±3.0
E	60 / 80
F	180

Environmental Specifications:

Thermal Shock	MIL-STD-883, Method 1011, Condition A
Moisture Resistance	MIL-STD-883, Method 1004
Mechanical Shock	MIL-STD-883, Method 2002, Condition B
Mechanical Vibration	MIL-STD-883, Method 2007, Condition A
Resistance to Soldering Heat	J-STD-020C, Table 5-2 Pb-free devices (except 2 cycles max)
Hazardous Substance	Pb-Free / RoHS / Green Compliant
Solderability	JESD22-B102-D Method 2 (Preconditioning E)
Terminal Strength	MIL-STD-883, Method 2004, Test Condition D
Gross Leak	MIL-STD-883, Method 1014, Condition C
Fine Leak	MIL-STD-883, Method 1014, Condition A2, R1=2x10-8 atm cc/s
Solvent Resistance	MIL-STD-202, Method 215

Marking:

Line 1: I-Date Code (yww) Line 2: Frequency

