

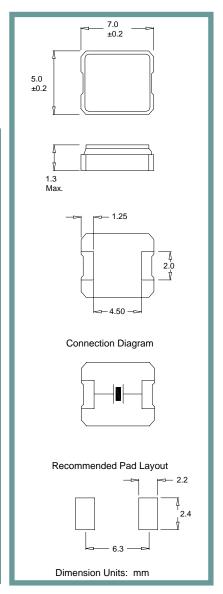
Product Features:

Low Cost SMD Package Low ESR Compatible with Leadfree Processing

Applications: Fibre Channel

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

Frequency	6 MHz to 100 MHz		
ESR (Equivalent Series Resistance) 6.0 MHz – 40.0 MHz 36.0 MHz – 100.0 MHz (3 rd O.T.)	40 Ω Max. 40 Ω Max.		
Shunt Capacitance (C0)	7 pF Max.		
Frequency Tolerance @ 25° C	±30 ppm Standard (see Part Number Guide for more options)		
Frequency Stability over Temperature	±50 ppm Standard (see Part Number Guide for more options)		
Crystal Cut	AT Cut		
Load Capacitance	18 pF Standard		
Drive Level	100 μW Max.		
Aging	±5 ppm Max. / Year Standard		
Temperature			
Operating	0° C to +70° C Standard (see Part Number Guide for more options)		
Storage	-40° C to +85° C Standard		



Part Number Guide Sample Part Number: ILCX10 - FB1F18 - 20.000						
Package	Tolerance (ppm) at Room Temperature	Stability (ppm) over Operating Temperature	Operating Temperature Range	Mode (overtone)	Load Capacitance (pF)	Frequency
ILCX10 -	B = ±50 ppm	B = ±50 ppm	0 = 0°C to +50°C	F = Fundamental	18 pF Standard Or Specify	- 20.000 MHz
	F = ±30 ppm	F = ±30 ppm	1 = 0°C to +70°C	3 = 3 rd overtone		
	G = ±25 ppm	G = ±25 ppm	2 = -10°C to +60°C			
	H = ±20 ppm	H = ±20 ppm	3 = -20°C to +70°C			
	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.





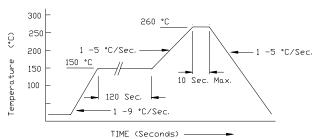




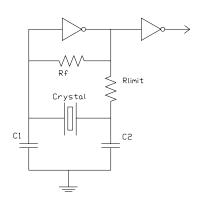


Pb Free Solder Reflow Profile:

Typical Circuit:



*Units are backward compatible with 240C reflow processes

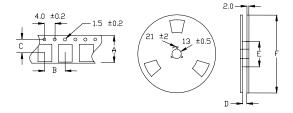


Package Information:

MSL = 1

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

Tape and Reel Information:



1000	
16 +/3	
8 +/2	
7.5 +/2	
17.5 +/-1	
50 / 60 / 80	
180 / 250	

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: ILSI, Date Code (yww)

Line 2: Frequency

