IL3X Series



Product Features:

±10ppm Tolerance Available Glass Sealed, Ceramic SMD Package Low Profile RoHS Compliant (Exemption 7(c)-I)

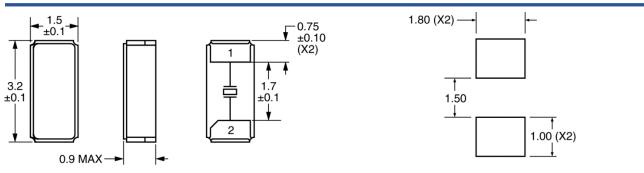
Electrical Specifications:

Applications:

Real Time Clock Source Metering Industrial Control Time Reference

Frequency	32.768kHz		
Equivalent Series Resistance	65 k Ohms Maximum		
Shunt Capacitance (C0)	1.7pF Typical, 2.0pF Maximum		
Frequency Tolerance (at 25°C)	±10ppm or ±20ppm		
Frequency Stability (over Temperature)	-0.034ppm/(Change in °C)2 Typical		
Turn over Temperature	25°C ±5°C		
Mode of Operation	Fundamental		
Crystal Cut	X-Cut (Tuning Fork)		
Load Capacitance	6pF, 7pF, 9pF, 12.5pF or Specify		
Drive Level	1µWatt Maximum		
Aging	±3ppm/Year Maximum		
Operating Temperature Range	-40°C to +85°C		
Storage Temperature Range	-40°C to +85°C		

Mechanical and Solder Pad Dimensions:



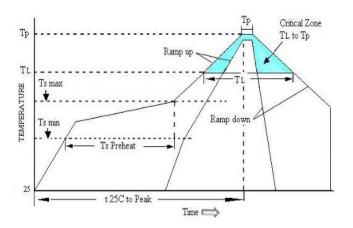
All Dimensions in Millimeters

Part Number Guide Sample Part Number: IL3X – HX5F12.5 – 32.768 kHz						
Package	Frequency Tolerance	Frequency Stability	Operating Temperature Range	Mode of Operations	Load Capacitance	Frequency
IL3X-	J = ±10ppm H = ±20ppm	X = X Cut	5 = -40°C to +85°C	F = Fundamental	6 = 6pF 7 = 7pF 9 = 9pF 12.5 = 12.5pF (or Specify)	- 32.768 kHz

IL3X Series



Pb Free Solder Reflow Profile:



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	
Feak Temperature (Tp)	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 +240°C 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 metallization). Cover: Ceramic Glass Seal

Tape and Reel Information:

