

IL3X2 Series



Product Features:

±10ppm Tolerance Available
SMD Package
Low Profile
RoHS and REACH Compliant

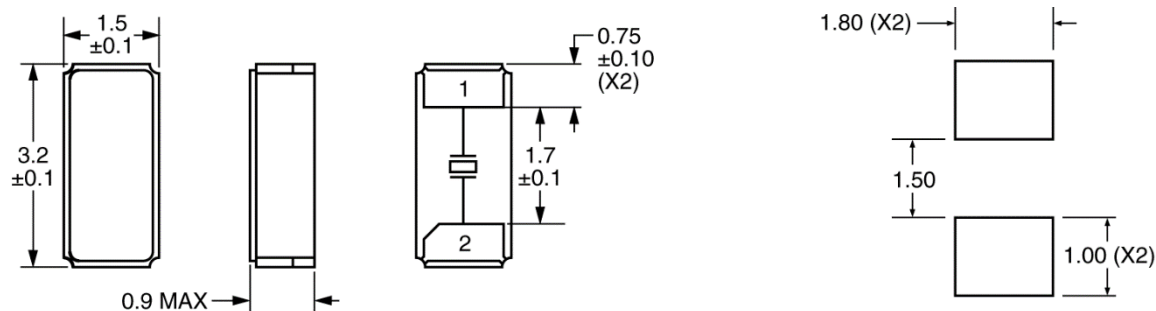
Applications:

Real Time Clock Source
Metering
Industrial Control
Time Reference

Electrical Specifications:

Frequency	32.768kHz
Equivalent Series Resistance	70 k Ohms Maximum
Shunt Capacitance (C0)	0.95pF 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

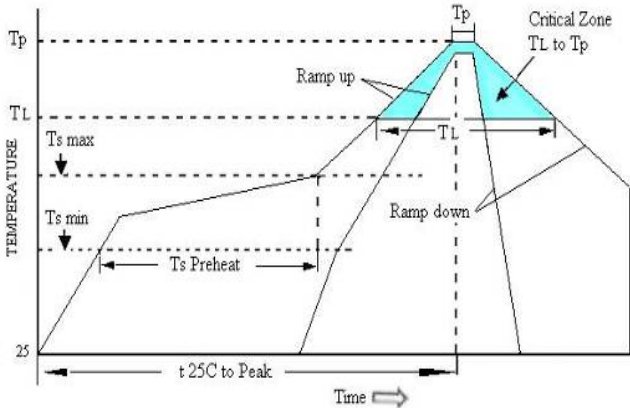
Mechanical and Solder Pad Dimensions:



All Dimensions in Millimeters

Part Number Guide		Sample Part Number: IL3X2 – HX5F12.5 – 32.768 kHz				
Package	Frequency Tolerance	Frequency Stability	Operating Temperature Range	Mode of Operations	Load Capacitance	Frequency
IL3X2-	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

Pb Free Solder Reflow Profile:



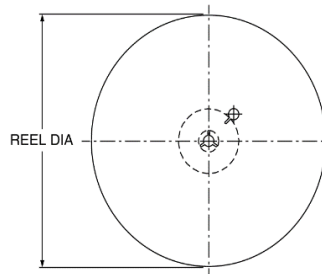
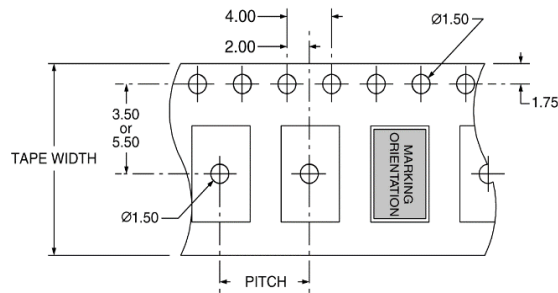
Ts max to T _L (Ramp-up Rate)	3°C / second max
Preheat	
Temperature min (Ts min)	150°C
Temperature typ (Ts typ)	175°C
Temperature max (Ts max)	200°C
Time (Ts)	60 to 180 seconds
Ramp-up Rate (T _L to T _p)	3°C / second max
Time Maintained Above Temperature (T _L)	217°C
Time (T _L)	60 to 150 seconds
Peak Temperature (T _p)	260°C max for 10 seconds
Time within 5°C to Peak Temperature (T _p)	20 to 40 seconds
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: Metal
 Seam Seal

Tape and Reel Information:



PITCH	4.00
TAPE WIDTH	12.00
REEL DIA	180
QTY PER REEL	3,000

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Crystals](#) category:

Click to view products by [Abracon](#) manufacturer:

Other Similar products are found below :

[MC405 32.0000K-R3:PURE SN](#) [7B-27.000MBBK-T](#) [MP1-8.0 99-BU](#) [9B-15.360MBBK-B](#) [PTX-A2JM-10.000M](#) [9C-7.680MBBK-T](#) [H10S-12.000-18-EXT-TR](#) [R38-32.768-12.5-5PPM-NPB](#) [BTD1062E05A-513](#) [21U15A-21.4MHZ](#) [RTX-781DF1-S-20.950](#) [LFXTAL066198Cutt](#) [9C-14.31818MBBK-T](#) [A-11.000MHZ-27](#) [SPT2A-.032768B](#) [SPT2A.032768G](#) [SSPT7F-9PF20-R](#) [FX325BS-38.88EEM1201](#) [MP-1-25.000MHZ-3L](#) [MP-1-6.000MHZ](#) [LFXTAL065253Cutt](#) [LFXTAL066431Cutt](#) [XT9S20ANA14M7456](#) [XT9SNLANA16M](#) [646G-24-2](#) [7B-30.000MBBK-T](#) [6504-202-1501](#) [6526-202-1501](#) [BTJ120E02C](#) [SG636PCE-20.000MC](#) [3404](#) [C1E-24.000-7-2020-R](#) [C1E-19.200-12-1530-X-R](#) [C1E-16.000-12-1530-X-R](#) [FL5000014](#) [EUCA18-3.1872M](#) [425F35E027M0000](#) [17196](#) [MS3V-T1R-32.768kHz-7pF-20PPM-TA-QC-Au](#) [VXM7-1C1-16M000](#) [MS1V-T1K-32.768kHz-10pF-20PPM-TA-QC-Au](#) [MS1V-T1K-32.768kHz-12.5pF-20PPM-TA-QC-Au](#) [MS3V-T1R-32.768kHz-9pF-20PPM-TA-QC-Au](#) [17000](#) [17301](#) [16875](#) [ECS-80-18-30B-JEM-TR](#) [ECS-100-10-30B-CKL-TR](#) [MS1V-T1K-32.768kHz-6pF-20PPM-TA-QC-Au](#)