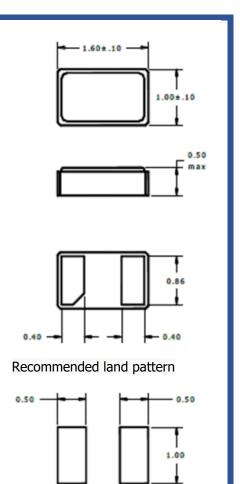
IL3W Series

Product Feature: 2-Pad SMD Package Ultra-Low Profile Compatible with Leadfree Processing RoHS Compliant

Applications: Real Time Clock Source Metering Industrial Control Time Reference

Frequency	32.768kHz
Equivalent Series Resistance	90 kOhms Maximum
Frequency Tolerance (at 25°C)	±10ppm, ±20ppm, or ±30ppm
Frequency Stability (over Temperature)	Parabolic, -0.030ppm / ° C2 ± 0.010 ppm / ° C2
Turn over Temperature	+25°C ±5°C
Mode of Operation	Flexural
Crystal Cut	Tuning Fork
Load Capacitance	9pF, or 12.5pF
Drive Level	0.1 μW Typical, 0.5 μWatt Maximum
Aging	±3ppmn Maximum / First Year
Operating Temperature Range	-40°C to +85°C
Storage Temperature Range	-40° C to +85° C





0.60

Dimensions: mm

Part Numl	ber Guide	Sample Part Number: IL3		3W – HX5F12.5 – 32.768 kHz		
Package	Stability (ppm) at Room Temperature	Stability (ppm) over Operating Temperature	Operating Temperature Range	Mode (Overtone)	Load Capacitance (pF)	Frequency
IL3W -	F = ±30 H = ±20 J = ±10	X = X Cut	5 = -40C to +85C	F = Fundamental	9 = 9pF 12.5 = 12.5pF	-32.768 kHz

IL3W Series



3ºC / second max

60 to180 seconds

3°C / second max

60 to 150 seconds

20 to 40 seconds

6°C / second max

8 minutes max

260°C max for 10 seconds

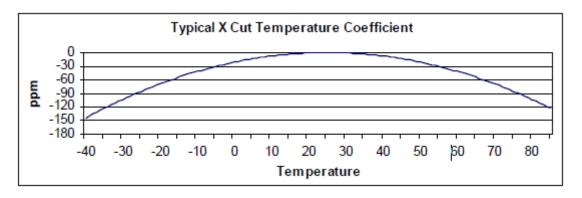
150°C

175°C

200°C

217°C

Typical X Cut Temperature Coefficient:



Ts max to T_L (Ramp-up Rate)

Temperature min (Ts min)

Temperature max (Ts max)

Temperature typ (Ts typ)

Ramp-up Tate (T_L to Tp

Time Maintained Above

Peak Temperature (Tp)

Time within 5°C to Peak

Tune 25°C to Peak Temperature

Temperature (Tp)

Ramp-down Rate

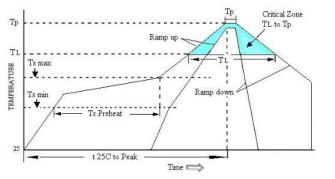
Temperature (T_L)

Preheat

Time (Ts)

Time (T_{L)}

Pb Free Solder Reflow Profile:

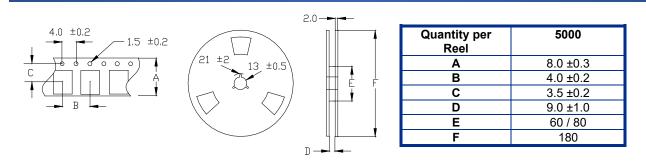


Units are backward compatible with 240C reflow processes

Package Information:

MSL = This product is Hermetically Sealed and not Moisture Sensitive-MSL = N/A: Not Applicable

Tape and Reel Information:



IL3W Series



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 A1
Solvent Resistance	MIL-STD-202, Method 215