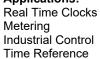
IL3T Series

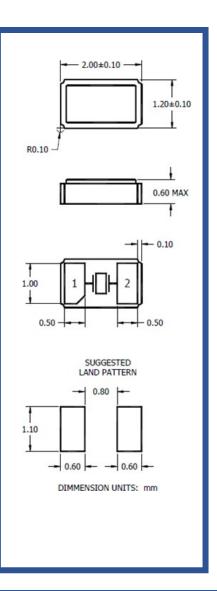
Product Feature:

Low Cost SMD Package Pb Free/ RoSH Compliant Ultra-Low Profile

Applications:



| Frequency | 32.768 kHz | |
|------------------------------------|---|--|
| | 90 kΩ Maximum | |
| Equivalent Series Resistance (ESR) | (-40°C to +85°C Option) | |
| | 110 kΩ Maximum | |
| | (-40°C to +125°C Option) | |
| Shunt Capacitance (Co) | 0.9 ~ 1.2pF Typical | |
| , | | |
| Frequency Tolerance @ 25°C ±5°C | ±20 ppm (See Options) | |
| Frequency Stability over | Parabolic, -0.03 ppm / ° C ² | |
| Temperature | ± 0.01 ppm / ° C ² | |
| Turnover point | +25° ±5°C | |
| Mode of Operation | Flexural Mode (Tuning Fork) | |
| Crystal Cut | Tuning Fork | |
| Load Capacitance | 12.5pF (See Options) | |
| | | |
| Drive Level | 0.1 μW Typical, 0.5 μW Maximum | |
| Aging (@25°C± 3°C) | ±2 ppm Max. / First Year | |
| Q Value | 90000 Min | |
| | | |
| Operating Temperature Range | -40° C to +85° C (See Options) | |
| | | |
| Storage Temperature Range | -55° C to +125° C | |
| | | |
| Insulation Resistance | 500 Mohms Minimum | |
| | (at 100Vdc +/-15Vdc) | |
| | | |

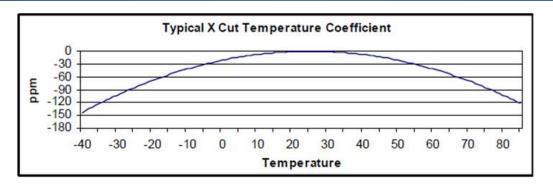


| Part Num | Part Number Guide Sample Part Number: IL3T – HX5F12.5- 32.768kHz | | | | | |
|----------|--|--|--------------------------|--------------------|--|-------------|
| Package | Stability(ppm) at Room Temperature | Stability (ppm) over Operating Temperature | Operating Temperature | Mode (overtone) | Load Capacitance (pF) | Frequency |
| IL3T - | J = ±10ppm H = ±20ppm | X = X Cut | 5 = -40°C to +85°C | F = Fundamental | 4= 4pF 6 = 6pF 7 = 7pF | -32.768 kHz |
| | F = ±30ppm | | 6 = -40°C to +125°C | | 9 = 9pF 12.5 = 12.5pF (or Specify) | |

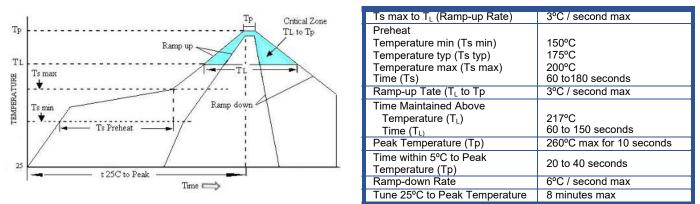
IL3T Series



Typical X Cut Temperature Coefficient:



Pb Free Solder Reflow Profile:



Units are backward compatible with 240°C reflow processes

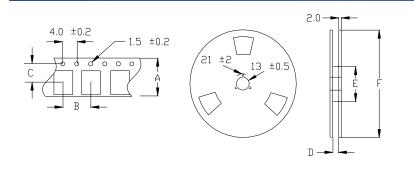
Package Information:

MSL = 1

Termination = e1 (Sn/Cu/Ag over Ni over Kovar base metal)

Note: Due to material availability, the outline and finish color of the component may vary. This variation in no way affects the electrical performance of the product.

Tape and Reel Information:



| - | |
|-------------------|-----------|
| Quantity per Reel | 3000 |
| A | 8.0 ±0.2 |
| В | 4.0 ±0.1 |
| C | 3.5 ±0.05 |
| D | 9±0.3 |
| E | 60 / 80 |
| F | 180 / 250 |

Dimensions: mm

IL3T 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 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 |