



RFM Integrated Device, Inc.

PRODUCT SPECIFICATION

Part Number: XTL2026

Description:
XTAL,32.768KHz,
+/-20ppm@25C+/-3C

Features:

- Ceramic Seam Weld Package
- Excellent Reliability Performance
- Ultra Miniature Package
- Available to Surface Mount Technology and IR Reflow Process
- Moisture Sensitivity Level (MSL) : Level-1



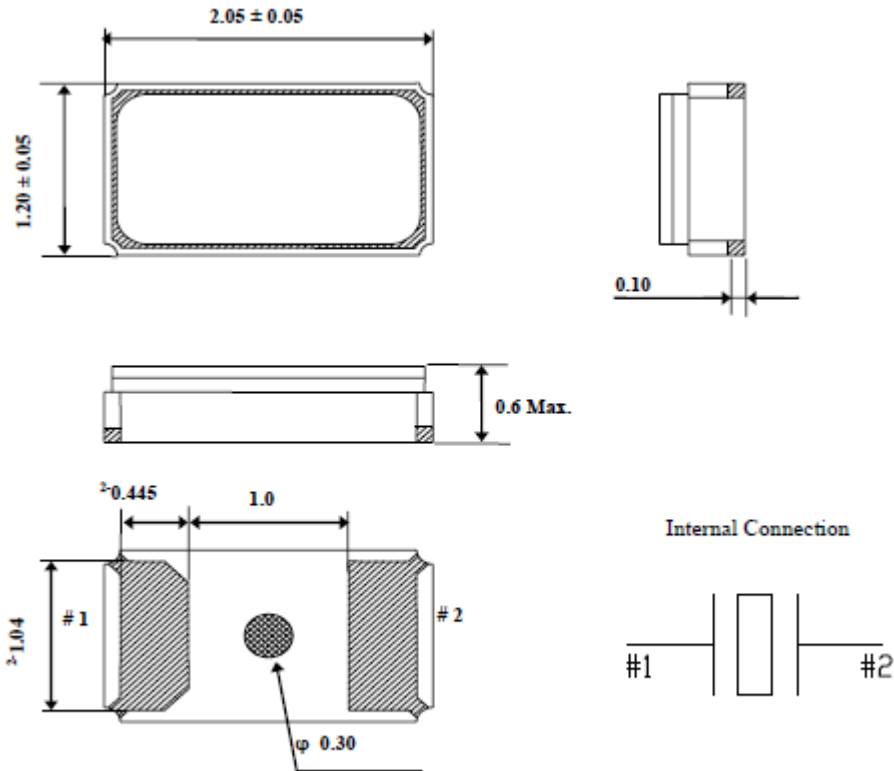
Description and Applications:

Surface mount 2.0mmx1.2mm crystal unit for use in communications devices,.

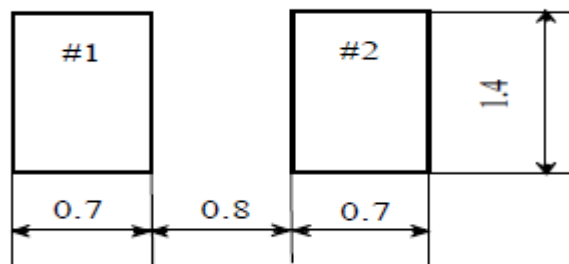
Electrical Specifications:

XTL2026	Specification
Nominal Frequency	32.768000 KHz
Storage Temperature Range	-55°C to +125°C
Operating Temperature Range	-40°C to +85°C
Turnover Temperature	25 +/- 5°C
Parabolic Curvature Constant	-0.04 x10 ⁻⁶ °C ² max.
Frequency Make Tolerance (FL)	+/-20 ppm @ 25°C +/- 3°C
Equivalent Series Resistor (ESR)	80 kΩ max.
Drive Level	0.5 uW max.
Motional Capacitance (C1)	6.4 fF typ.
Shunt Capacitance (Co)	1.3 pF typ.
Load Capacitance (CL)	12.5 pF
Insulation Resistance	500M Ω min at DC 100V +/-15
Aging	+/-3.0 ppm / year
Marking	Laser marking

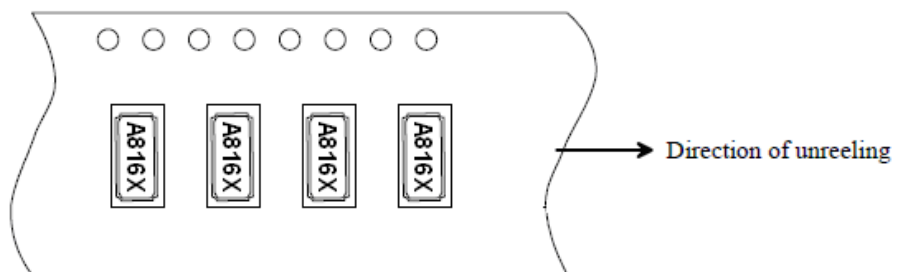
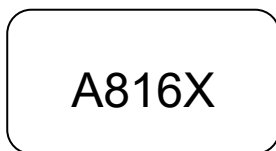
Mechanical Dimensions (mm):



Recommended Land Pattern: (unit: mm)



Marking:



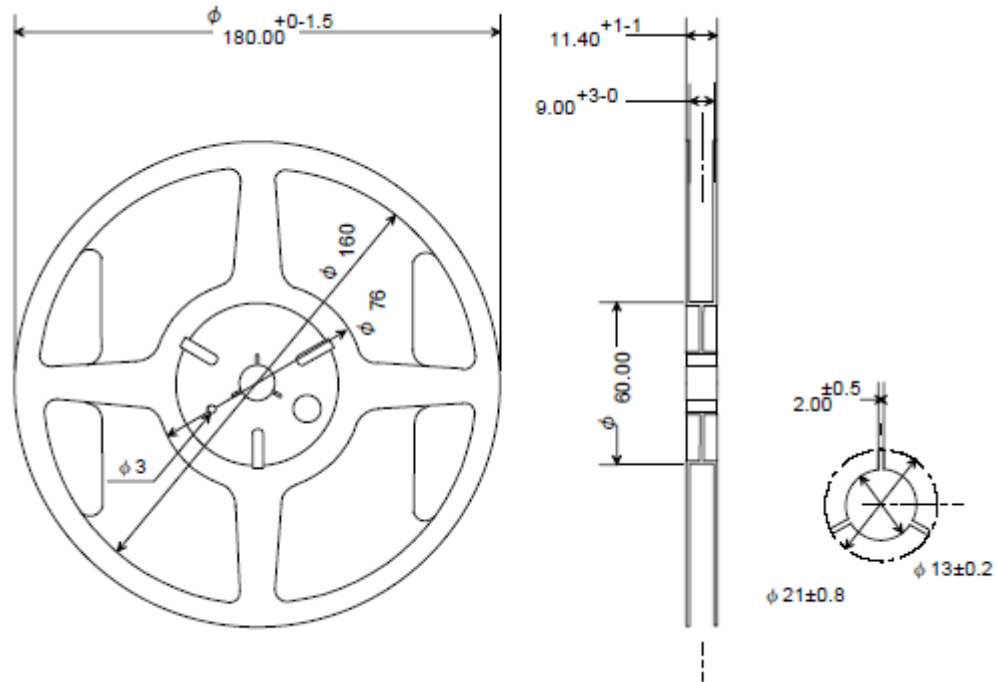
A : Nominal Frequency 32.768KHz

8 : Year code : 8 for 2018

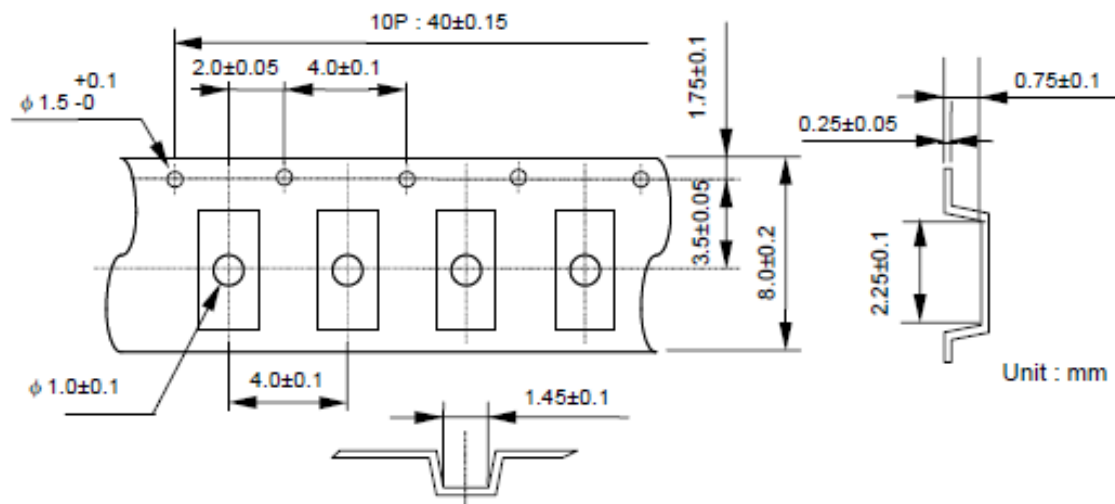
16 : Week code

X : Traceability code

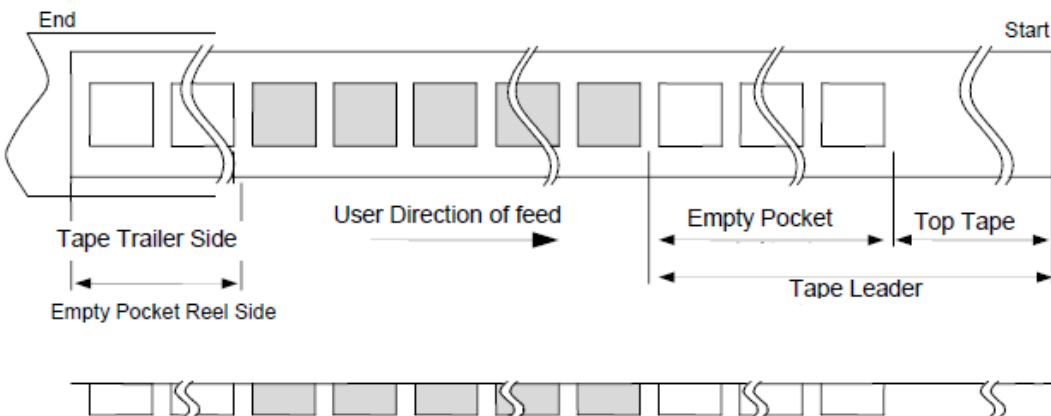
Reel Dimensions (mm):



Tape Dimensions (mm):

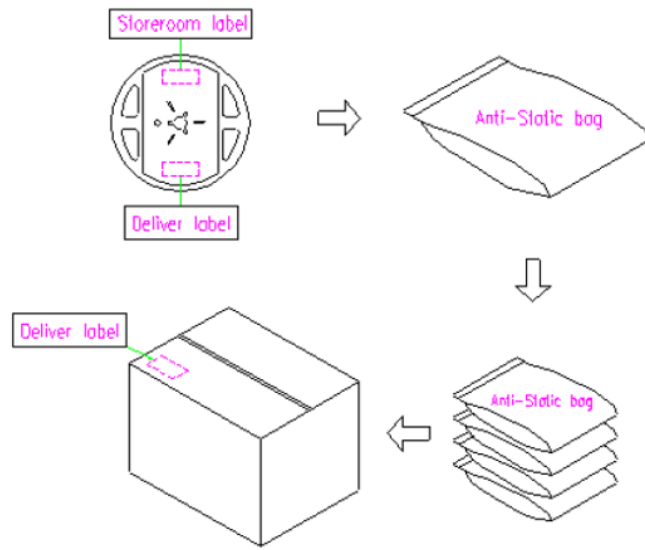


Unit : mm



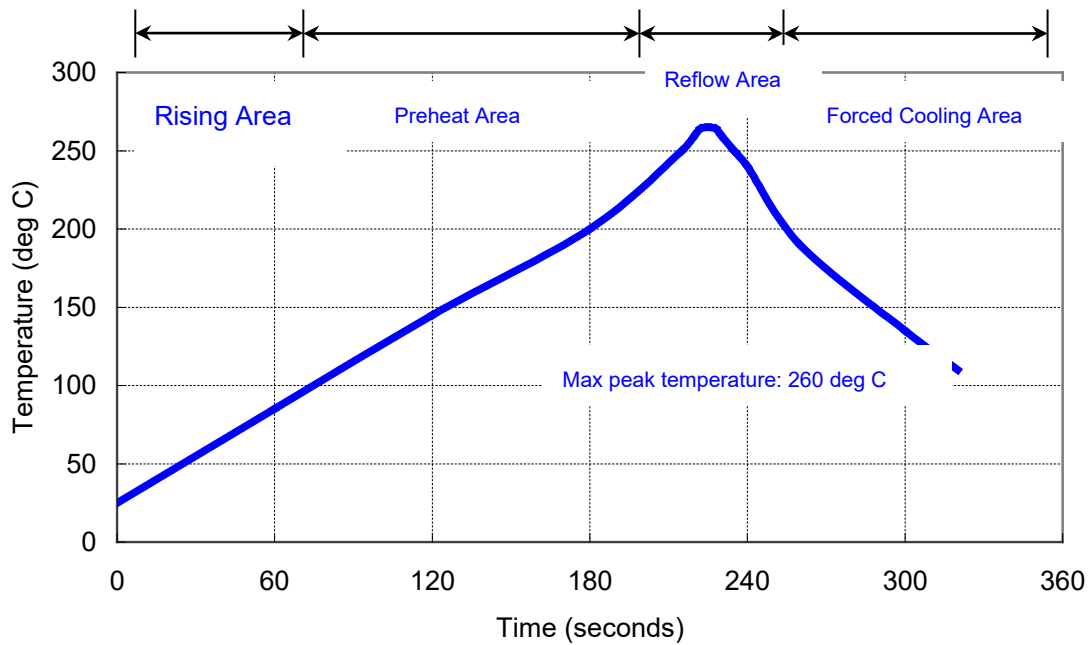
Packing Quantity/Packing:

5K pcs maximum per reel



Deliver package carton
1. L36xW35xH21cm-10 reel max.
2. L38xW36xH32cm-15 reel max.

Reflow Profile:



Reliability Specifications

Test name	Test process / method	Reference standard
Mechanical characteristics		
resistance to Soldering heat (IR reflow)	Temp./ Duration : 265°C /10sec ×2 times Total time : 4min.(IR-reflow)	EIAJED-4701 -300(301)M(II)
Vibration	Total peak amplitude : 1.5mm Vibration frequency : 10 to 2000 Hz Sweep period : 20 minute Vibration directions : 3 mutually perpendicular Duration : 2 hr / direc.	MIL-STD 202G method 204
Mechanical Shock	directions : 3 impacts per axis Acceleration : 3000g's, +20/-0 % Duration : 0.3 ms (total 18 shocks) Waveform : Half-sine	MIL-STD 202G method 213
Solderability	Solder Temperature:265±5°C Duration time: 5±0.5 seconds.	J-STD-002
Environmental characteristics		
Thermal Shock	Heat cycle conditions -40 °C (30min) ↔ 85 °C (30min) * cycle time : 10 times	MIL-STD 883G method 1010.8
Humidity test	Temperature : 85 ± 2 °C Relative humidity : 85% Duration : 96 hours	MIL-STD 202G method 103
Dry heat (Aging test)	Temperature : 125 ± 2 °C Duration : 168 hours	MIL-STD 202G method 108A
Cold resistance (Low Temp Storage)	Temperature : -40 ± 2 °C Duration : 96 hours	IEC 60068-2-1