

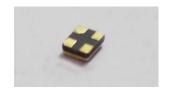
SURFACE MOUNT TUNING FORK CRYSTAL

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SERIES RT1210B

FEATURES

- 32.768 kHz
- SMALL AND COMPACT PACKAGE



SPECIFICATIONS

PARAMETER	VALUE		
NOMINAL FREQUENCY	32.768 kHz		
MODE OF OSCILLATION	Fundamental		
FREQUENCY TOLERANCE AT 25°C ± 3°C	±20 ppm *		
FREQUENCY STABILITY OVER TEMPERATURE COEFFICIENT	-0.036 ppm / °C² typ		
OPERATING TEMPERATURE RANGE	-40°C to +85°C		
STORAGE TEMPERATURE RANGE	-55°C to +125°C		
AGING AT 25°C ± 3°C	±5 ppm first year max		
INSULATION RESISTANCE AT 100 VDC	500 MΩ		
LOAD CAPACITANCE	9 pF to 12.5 pF		
EQUIVALENT SERIES RESISTANCE	90 kΩ max		
SHUNT CAPACITANCE	1.4 pF typ		
DRIVE LEVEL	0.3 μw max		
SHOCK RESISTANCE	±5 ppm max 75 cm drop test in 3 axes onto a hard surface		

Note: * Contact the factory for other tolerances.

PART NUMBERING SYSTEM

TYPE	•	FREQUENCY kHz	•	LOAD CAPACITANCE pF	•	TOLERANCE ppm	•	TAPE & REEL
RT1210B	•	32.768	ı	9 to 12.5	ı	Blank for ±20 ppm	ı	TR

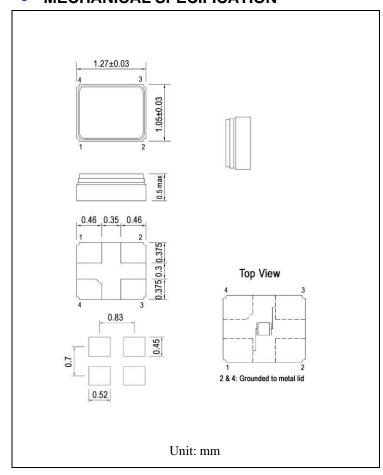
EXAMPLE: RT1210B-32.768-12.5-TR

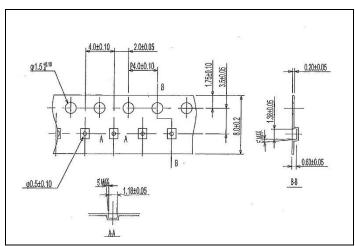
Surface Mount Tuning Fork Crystal, 1.2 mm x 1.0 mm Package, 32.768 kHz, 12.5 pF Load, ±20 ppm Tolerance, Operating Temperature from -40°C to +85°C, Tape and Reel Packaging

SERIES RT1210B

MECHANICAL SPECIFICATION

A RAMI TECHNOLOGY Company





NOTE: REFER TO EIA-481 FOR DIMENSIONS

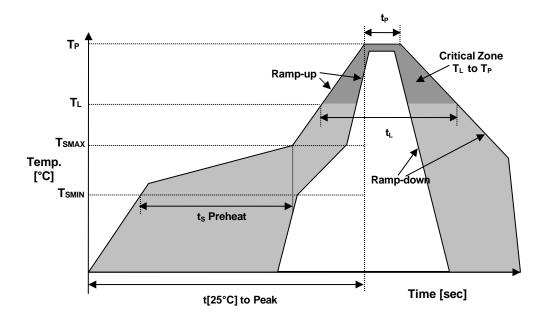
PACKAGING

180 mm REEL DIAMETER 8 mm TAPE WIDTH, 4mm PITCH QUANTITY: 3000 PIECES PER REEL



SERIES RT1210B

REFLOW PROFILE



Reflow profile (Reference IPC/JEDEC J-STD-020)						
Temperature Min Preheat	T _{SMIN}	150°C				
Temperature Max Preheat	T _{SMAX}	200°C				
Time (T _{SMIN} to T _{SMAX})	t _S	60-180 sec.				
Temperature	T∟	217°C				
Peak Temperature	T _P	260°C				
Ramp-up rate	R _{UP}	3°C/sec max.				
Ramp-down rate	R _{DOWN}	6°C/sec max.				
Time within 5°C of Peak Temperature	t _P	10 sec.				
Time t[25°C] to Peak Temperature	t[25°C] to Peak	480 sec.				
Time	t _L	60-150 sec.				

ENVIRONMENTAL

PARAMETER	VALUE
MOISTURE SENSITIVITY LEVEL	1
RoHS	COMPLIANT
REACH SVHC	COMPLIANT
HALOGEN-FREE	COMPLIANT
TERMINATION FINISH	Au



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