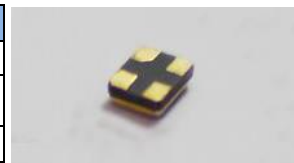


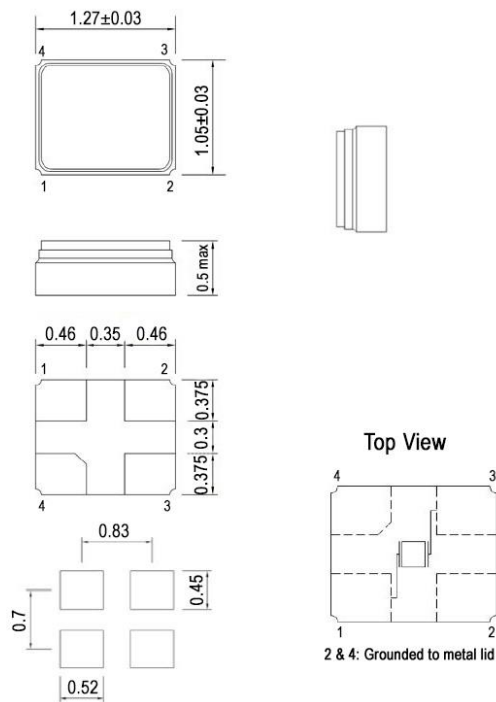
## RT1210B-32.768-12.5-TR-NS3

### • SPECIFICATIONS

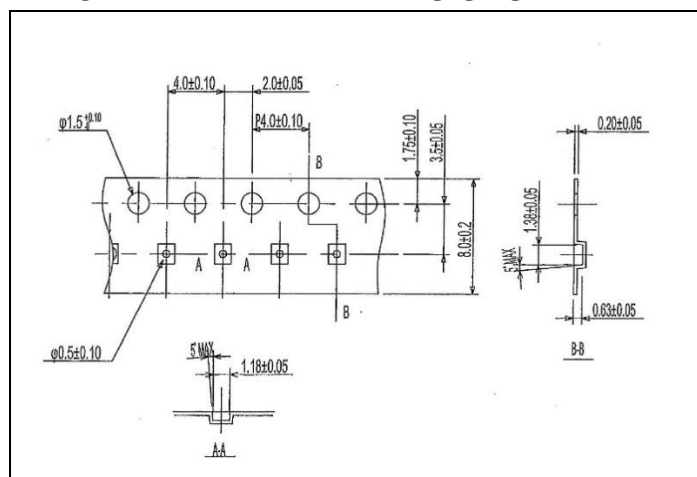
PARAMETER	VALUE
NOMINAL FREQUENCY	32.768 kHz
MODE OF OSCILLATION	Fundamental
FREQUENCY TOLERANCE AT 25°C ± 3°C	±20 ppm max
TURNOVER TEMPERATURE	+25 ± 5°C
TEMPERATURE COEFFICIENT	-0.036 ppm / °C2
OPERATING TEMPERATURE RANGE	-40°C to +85°C
STORAGE TEMPERATURE RANGE	-55°C to +125°C
AGING AT 25°C ± 3°C	±5 ppm first year max
LOAD CAPACITANCE	12.5 pF
EQUIVALENT SERIES RESISTANCE	80 kΩ max ⇐
SHUNT CAPACITANCE	1.4 pF typ
DRIVE LEVEL	1.0 μw max ⇐
REFLOW CONDITIONS	260°C ± 10°C for 10 sec max



### • MECHANICAL SPECIFICATION



### • CARRIER TAPE DIMENSIONS



NOTE: REFER TO EIA-481 FOR DIMENSIONS

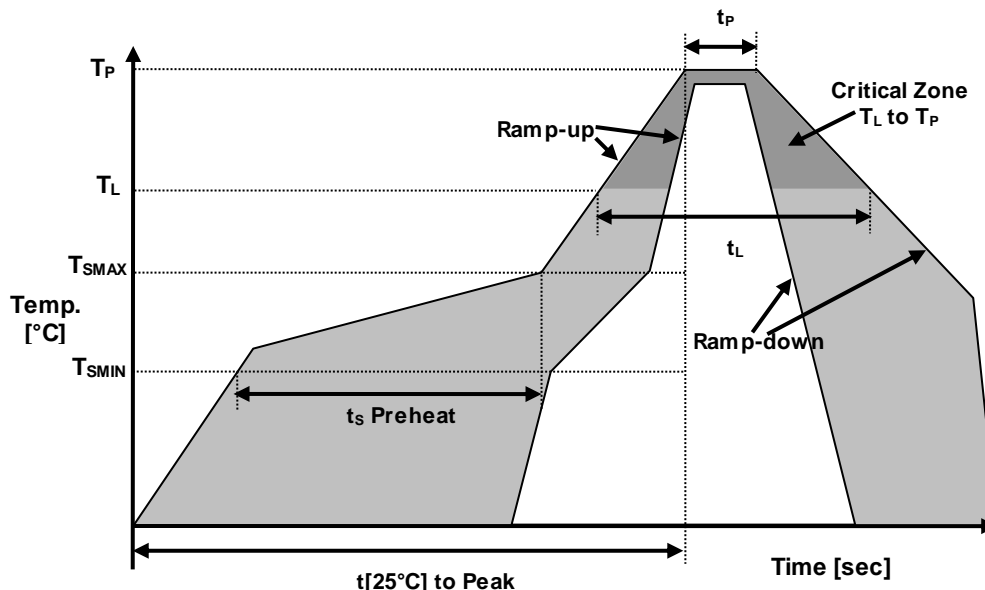
### • PACKAGING

180 mm REEL DIAMETER  
8 mm TAPE WIDTH, 4mm PITCH  
QUANTITY: 5000 PIECES PER REEL

IN ACCORDANCE WITH EIA-481

## RT1210B-32.768-12.5-TR-NS3

### 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	$T_L$	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 $t[25^\circ\text{C}]$ to Peak Temperature	$t[25^\circ\text{C}]$ 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



### APPROVAL

Draw n By:	AR, July 14, 2023
Approved By:	CP, July 14, 2023
Revision:	A, Initial Release
	B, AR, April 23, 2024
	Updated the Current Revision Levels

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