

SURFACE MOUNT MICROPROCESSOR CRYSTAL

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RT3215-32.768-6-TR

SPECIFICATIONS

PARAMETER	VALUE
NOMINAL FREQUENCY	32.768 kHz
MODE OF OSCILLATION	Fundamental
FREQUENCY TOLERANCE AT 25°C	±20 ppm max
TURNOVER TEMPERATURE	+25 ± 5°C
TEMPERATURE COEFFICIENT	-0.04 ppm / °C ² max
OPERATING TEMPERATURE RANGE	-40°C to +85°C
STORAGE TEMPERATURE RANGE	-55°C to +125°C
AGING	±3 ppm first year max
LOAD CAPACITANCE	6 pF
EQUIVALENT SERIES RESISTANCE	70 kΩ max
SHUNT CAPACITANCE	1.1 pF typ
DRIVE LEVEL	0.5 μW max
INSULATION RESISTANCE	500 MΩ min @ DC 100V

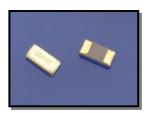
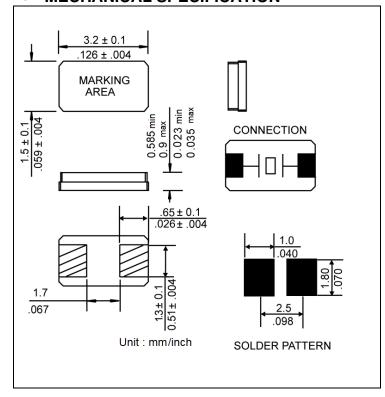
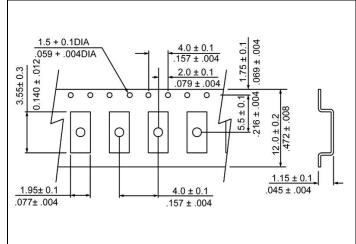


Photo not actual part

MECHANICAL SPECIFICATION



CARRIER TAPE DIMENSIONS



NOTE: REFER TO EIA-481 FOR DIMENSIONS

PACKAGING

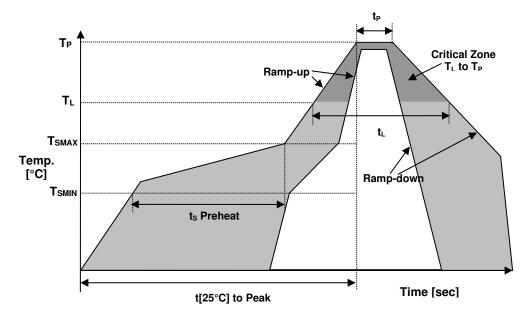
180 mm REEL DIAMETER 12 mm TAPE WIDTH, 4 mm PITCH QUANTITY: 3000 PIECES PER REEL

IN ACCORDANCE WITH EIA-481



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REFLOW PROFILE



Reflow profile		
Temperature Min Preheat	T_{SMIN}	150°C
Temperature Max Preheat	T _{SMAX}	200°C
Time (T _{SMIN} to T _{SMAX})	ts	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°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
ESD CLASSIFICATION LEVEL	N/A
TERMINATION FINISH	Au





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MARKING

Xywwx X – Internal Production ID code (J, R, T, Y, M, R, N) y - Year code ww - Week code x - 1 or 2 digits as Lot code ymxxx y – Year code m – Month code, Jan ~ Sep: 1 ~ 9, Oct: X Nov: Y Dec: Z xxx - Lot codeXLzymd X – Internal Production ID code (J, R, T, Y, M, R, N) L – Load capacitance code (A: 12.5pF B: 9pF C: 7pF Z: others) z – Lot code y - Year code m – Month code, Jan ~ Sep: 1 ~ 9, Oct: X Nov: Y Dec: Z d – Day code $XzymF_{xx}^{xx}$ X – Internal Production ID code (J, R, T, Y, M, R, N)

z – Frequency code y – Year code

 $_{xx}^{xx}$ – Lot code

m – Month code, Jan ~ Sep: 1 ~ 9, Oct: X Nov: Y Dec: Z



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APPROVAL

Drawn By:	FP, 20 January 2014
Approved By:	FP, 20 January 2014
Revision:	A, Initial Release
	B, KJ, 7/26/16 Corrected Tape Width to 12mm; Peak Temperature 260°C
	C, Updated to current spec levels KJ 5/15/17, Updated to current spec
	levels by XL 5/10/2019
	D, Added markings by XLiu, December 10, 2020
	E, AR January 07, 2021
	Updated the Carrier Tape Dimensions

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