

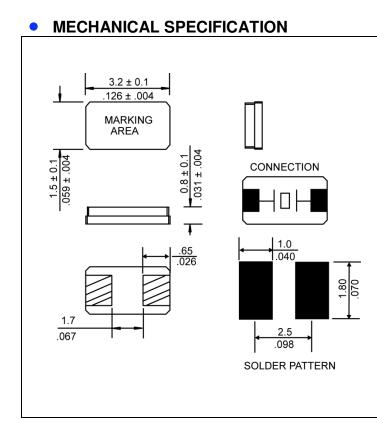
#### SURFACE MOUNT MICROPROCESSOR CRYSTAL

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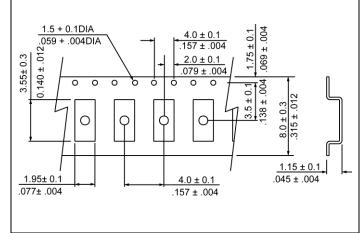
#### RT3215-32.768-9-TR-10PPM

# • SPECIFICATIONS

PARAMETER	VALUE
NOMINAL FREQUENCY	32.768 KHz
FREQUENCY TOLERANCE AT 25°C	±10 ppm max
TURNOVER TEMPERATURE	+25 ±5°C
TEMPERATURE COEFFICIENT	-0.04 x 10 <sup>-6</sup> / °C <sup>2</sup> max
SHUNT CAPACITANCE	1.5 pF typ
LOAD CAPACITANCE	9 pF
EQUIVALENT SERIES RESISTANCE	65 KΩ max
DRIVE LEVEL	0.5 μW max
AGING	±3 ppm first year max
OPERATING TEMPERATURE RANGE	-40°C to +85°C
STORAGE TEMPERATURE RANGE	-55°C to +125°C
MOTIONAL CAPACITANCE	6.7 fF typ
INSULATION RESISTANCE	500 MΩ min



# • CARRIER TAPE DIMENSIONS



NOTE: REFER TO EIA-481 FOR DIMENSIONS

#### PACKAGING

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

IN ACCORDANCE WITH EIA-481

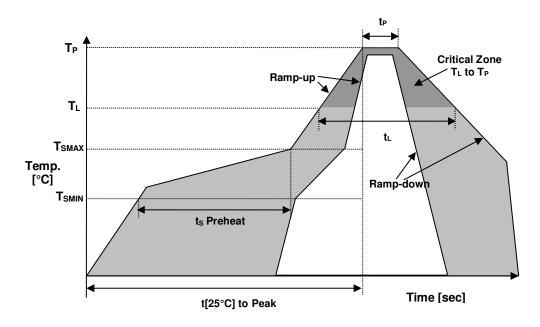


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# • REFLOW PROFILE

# RT3215-32.768-9-TR-10PPM



Reflow profile		
Temperature Min Preheat	T <sub>SMIN</sub>	125°C
Temperature Max Preheat	T <sub>SMAX</sub>	150°C
Time (T <sub>SMIN</sub> to T <sub>SMAX</sub> )	ts	60-180 sec.
Temperature	ΤL	217°C
Peak Temperature	TP	260°C
Ramp-up rate	Rup	3°C/sec max.
Ramp-down rate	RDOWN	6°C/sec max.
Time within 5°C of Peak Temperature	tP	10 sec.
Time t[25°C] to Peak Temperature	t[25°C] to Peak	480 sec.
Time	t∟	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





#### SURFACE MOUNT MICROPROCESSOR CRYSTAL

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### RT3215-32.768-9-TR-10PPM

## MARKING

R3x9ym

- x Internal Production ID code
- y Year code
- m Month code

YEAR CODE		
Year	Code	
2011	1	
2012	2	
2013	3	
2014	4	
2015	5	
2016	6	
2017	7	
2018	8	
2019	9	

ALPHA MONTH CODE TABLE		
Month	Code	
January	Α	
February	В	
March	С	
April	D	
May	E	
June	F	
July	G	
August	Н	
September	J	
October	K	
November	L	
December	М	

#### APPROVAL

Drawn By:	KJackson, March 30, 2015	
Approved By:	KJackson, March 30, 2015	
Revision:	A, Initial Release	
	B, Updated to current spec levels KJ 10/7/17	

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