

### SURFACE MOUNT MICROPROCESSOR CRYSTAL

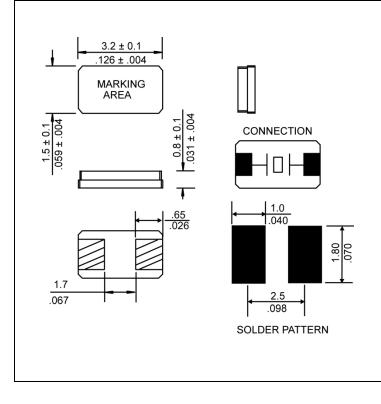
Page 1 of 3

RT3215-32.768-7-TR-NS2

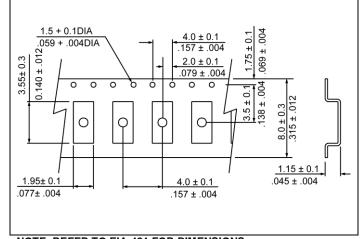
# • SPECIFICATIONS

PARAMETER	VALUE
FREQUENCY RANGE	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	1.0 pF typ
LOAD CAPACITANCE	7 pF
EQUIVALENT SERIES RESISTANCE	70K Ω max
DRIVE LEVEL	1.0 µW max
AGING	±3 ppm first year max
OPERATING TEMPERATURE RANGE	-25°C to +70°C Standard 🛛 🗢
STORAGE TEMPERATURE RANGE	-40°C to +85°C
MOTIONAL CAPACITANCE	6.7 fF typ
INSULATION RESISTANCE	500M Ω max

# • MECHANICAL SPECIFICATION



# **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

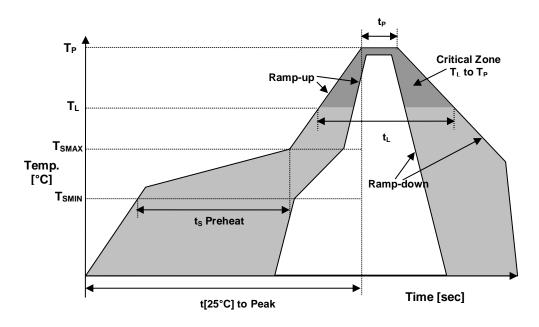


#### SURFACE MOUNT MICROPROCESSOR CRYSTAL

Page 2 of 3

## • **REFLOW PROFILE**

RT3215-32.768-7-TR-NS2



Reflow profile		
Temperature Min Preheat	T <sub>SMIN</sub>	150°C
Temperature Max Preheat	T <sub>SMAX</sub>	200°C
Time (T <sub>SMIN</sub> to T <sub>SMAX</sub> )	t <sub>S</sub>	60-180 sec.
Temperature	TL	217°C
Peak Temperature	T <sub>P</sub>	260°C
Ramp-up rate	Rup	3°C/sec max.
Ramp-down rate	R <sub>DOWN</sub>	6°C/sec max.
Time within 5°C of Peak Temperature	t <sub>P</sub>	10 sec.
Time t[25°C] to Peak Temperature	t[25°C] to Peak	480 sec.
Time	tL	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

Page 3 of 3

# RT3215-32.768-7-TR-NS2

## MARKING

R3x7ym

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

YEAR CODE		
Year	Code	
2015	5	
2016	6	
2017	7	
2018	8	
2019	9	
2020	0	
2021	1	
2022	2	
2023	3	
2024	4	
2025	5	

ALPHA MONTH		
CODE TABLE		
Month	Code	
January	А	
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, July 10, 2014
Approved By:	KJackson, July 10, 2014
Revision:	A, Initial Release

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