

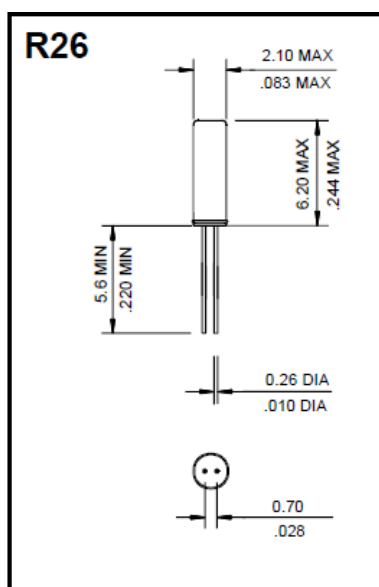
## ● ELECTRICAL SPECIFICATIONS

PARAMETER	VALUE
NOMINAL FREQUENCY	32.768 kHz
FREQUENCY TOLERANCE AT 25°C, Max	±20 PPM
TURNOVER TEMPERATURE	25°C ± 5°C
PARABOLIC CURVATURE CONSTANT	-0.034 PPM/Δ°C <sup>2</sup>
LOAD CAPACITANCE	12.5 pF
EQUIVALENT SERIES RESISTANCE, Max	35k Ω
DRIVE LEVEL, Max	1.0 μW
MOTIONAL CAPACITANCE, Typical	0.003 pF
SHUNT CAPACITANCE, Typical	1.35 pF
CAPACITANCE RATIO	450
AGING (FIRST YEAR)	±3 PPM
QUALITY FACTOR, Typical	70000
INSULATION RESISTANCE, minimum	500M Ω
OPERATING TEMPERATURE RANGE	-40°C to +85°C
STORAGE TEMPERATURE RANGE	-40°C to +85°C
SHOCK RESISTANCE	±5ppm max 75 cm drop test in 3 axes onto a hard surface or 3000gx0.3msx1/2 sinewave in 3 axes



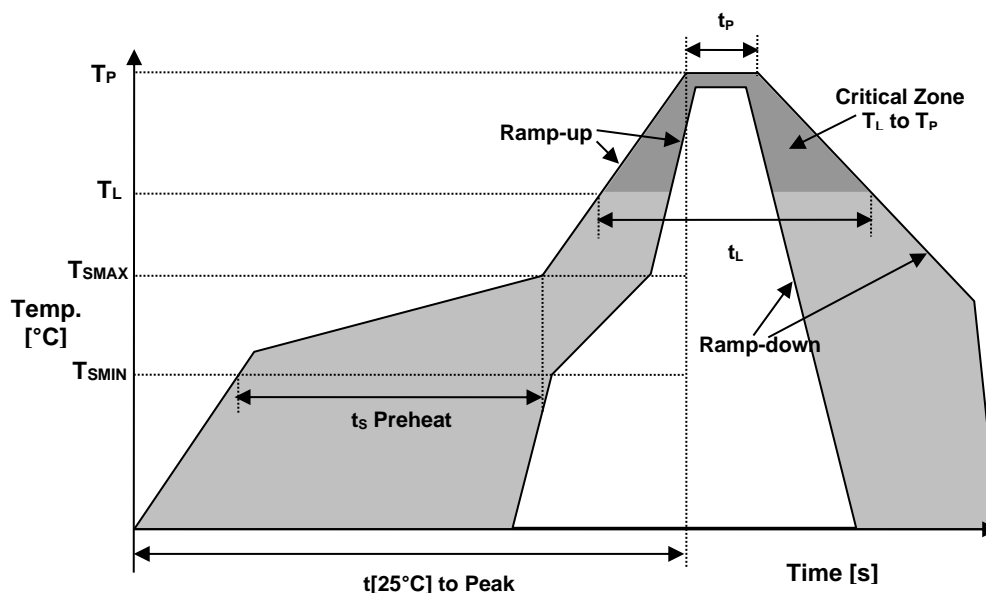
Photo is not actual part

## ● MECHANICAL SPECIFICATIONS



NOTE: Solder by terminals only max 245°C for ten seconds

## REFLOW PROFILE



Reflow profile		
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	$T_P$	245°C
Ramp-up rate	$R_{UP}$	3°C/s max.
Ramp-down rate	$R_{DOWN}$	6°C/s max.
Time within 5°C of Peak Temperature	$t_P$	10 s
Time t[25°C] to Peak Temperature	t[25°C] to Peak	480 s
Time	$t_L$	60-150 s

## ENVIRONMENTAL

PARAMETER	VALUE
MOISTURE SENSITIVITY LEVEL	1
RoHS	5/6 Compliant, Exemption 7a
REACH SVHC	Compliant
HALOGEN-FREE	Compliant
ESD CLASSIFICATION LEVEL	N/A
TERMINATION FINISH	Sn





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**TUNING FORK CRYSTAL**

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**R26-32.768-12.5-EXT**

## • MARKING

x3FmyR

x – Internal Production ID code

m – Month code

y – Year code

YEAR CODE	
Year	Code
2019	9
2020	0
2021	1
2022	2
2023	3
2024	4
2025	5
2026	6
2027	7
2029	8
2029	9

MONTH CODE	
MONTH	CODE
JANUARY	A
FEBRUARY	B
MARCH	C
APRIL	D
MAY	E
JUNE	F
JULY	G
AUGUST	H
SEPTEMBER	J
OCTOBER	K
NOVEMBER	L
DECEMBER	M

## • APPROVAL

DRAWN BY:	KJackson, September 17, 2015
APPROVED BY:	KJackson, September 17, 2015
REVISION:	A, Revised Format
	B, Updated to current spec levels KJ 11/4/21

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