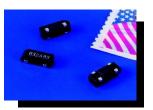


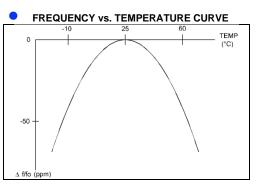
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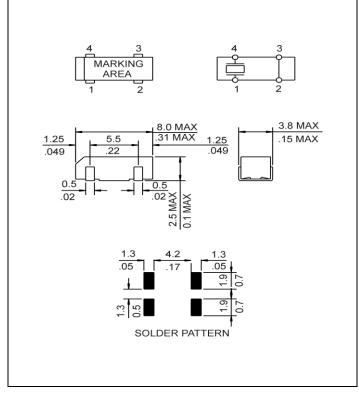
SPECIFICATIONS

PARAMETER	VALUE
NOMINAL FREQUENCY	32.768 kHz
FREQUENCY TOLERANCE AT 25°C	±20 ppm max
TURNOVER TEMPERATURE	+25°C ±5°C
PARABOLIC CURVATURE CONSTANT	(-0.034 ±0.006) ppm/°C ²
OPERATING TEMPERATURE RANGE	-40°C to +85°C
STORAGE TEMPERATURE RANGE	-55°C to +125°C
AGING (FIRST YEAR)	±3 ppm max
LOAD CAPACITANCE	12.5 pF
EQUIVALENT SERIES RESISTANCE	50 kΩ max
SHUNT CAPACITANCE	1.35 pF typ
MOTIONAL CAPACITANCE	0.003 pF typ
CAPACITANCE RATIO	450 typ
DRIVE LEVEL	1 µW max
INSULATION RESISTANCE	500 MΩ min

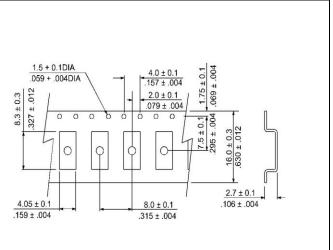


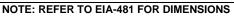


MECHANICAL SPECIFICATION



CARRIER TAPE DIMENSIONS





PACKAGING

178 mm REEL DIAMETER 16 mm TAPE WIDTH, 8 mm PITCH QUANTITY: 3000 PIECES PER REEL

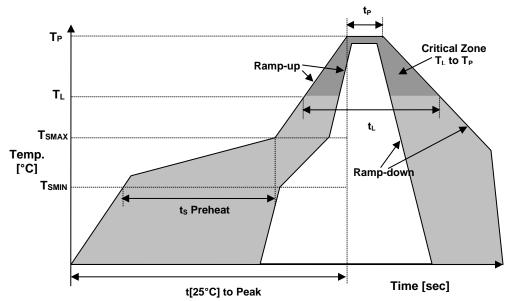
IN ACCORDANCE WITH EIA-481



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REFLOW PROFILE



Reflow profile		
Temperature Min Preheat	Тѕмім	150°C
Temperature Max Preheat	T _{SMAX}	200°C
Time (T _{SMIN} to T _{SMAX})	ts	60-180 sec.
Temperature	TL	217°C
Peak Temperature	TP	260°C
Ramp-up rate	Rup	3°C/sec max.
Ramp-down rate	R _{DOWN}	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	5/6 – Exemption 7A
REACH SVHC	Compliant
HALOGEN-FREE	Complliant
ESD CLASSIFICATION LEVEL	N/A
TERMINATION FINISH	Sn
UNIT WEIGHT (GRAMS)	0.14





SURFACE MOUNT TUNING FORK CRYSTAL

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MARKING

x3FmyR

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

MONTH CODE		
MONTH	CODE	
JANUARY	А	
FEBRUARY	В	
MARCH	С	
APRIL	D	
MAY	Е	
JUNE	F	
JULY	G	
AUGUST	Н	
SEPTEMBER	J	
OCTOBER	К	
NOVEMBER	L	
DECEMBER	М	

YEAR CODE	
Year	Code
2018	8
2019	9
2020	0
2021	1
2022	2
2023	3
2024	4
2025	5
2026	6
2027	7

APPROVAL

Drawn By:	FP, 16 April 2014
Approved By:	FP, 16 April 2014
Revision:	A, Initial Release
	B, Modified operating temperature
	range KJ 10/14/16
	CP, December 08,2016
	Updated to current spec level
	C, Updated to current spec levels
	KJ 8/27/19
	D, Updated to current spec levels
	KJ 10/23/20

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