

SURFACE MOUNT TUNING FORK CRYSTAL

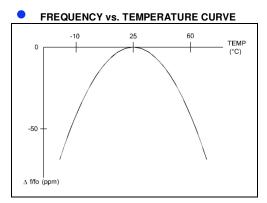
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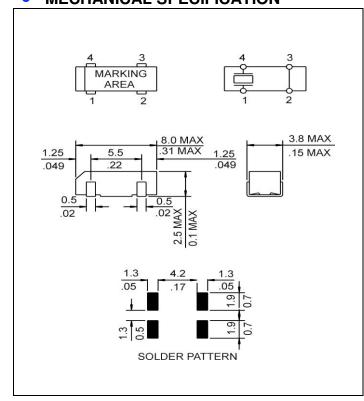
SPECIFICATIONS

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	±5 ppm first year max
LOAD CAPACITANCE	6 pF
EQUIVALENT SERIES RESISTANCE	35 kΩ max
SHUNT CAPACITANCE	1.5 pF min
MOTIONAL CAPACITANCE	3 fF typ
CAPACITANCE RATIO	450 typ
DRIVE LEVEL	1 μW max
INSULATION RESISTANCE	500 MΩ min
REFLOW CONDITIONS	260°C for 10 sec max

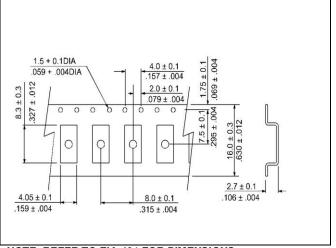




MECHANICAL SPECIFICATION



CARRIER TAPE DIMENSIONS



NOTE: REFER TO EIA-481 FOR DIMENSIONS

PACKAGING

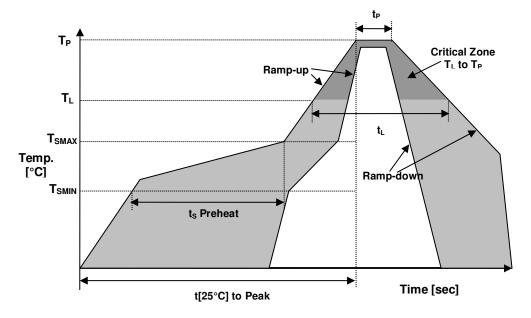
178 mm REEL DIAMETER
16 mm TAPE WIDTH, 8 mm PITCH
QUANTITY: 3000 PIECES PER REEL

IN ACCORDANCE WITH EIA-481



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REFLOW PROFILE



Re	eflow profile	
Temperature Min Preheat	T _{SMIN}	150°C
Temperature Max Preheat	T _{SMAX}	200°C
Time (T _{SMIN} to T _{SMAX})	ts	60-180 s
Temperature	TL	217°C
Peak Temperature	T_P	260°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	Compliant
REACH SVHC	Compliant
HALOGEN-FREE	Compliant
ESD CLASSIFICATION LEVEL	N/A
TERMINATION FINISH	Sn





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MARKING

x3QmyR

 $\begin{array}{l} x-Internal\ Production\ ID\ code \\ m-Month\ code \end{array}$

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MONTH C	ODE
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

YEAR CODE		
Year	Code	
2020	0	
2021	1	
2022	2	
2023	3	
2024	4	
2025	5	
2026	6	
2027	7	
2028	8	
2029	9	

APPROVAL

Drawn By:	FP, 12/02/11
Approved By:	FP, 12/02/11
Revision:	A, Initial Release
	B, Updated to current spec levels by XLiu,
	April 20, 2020

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