

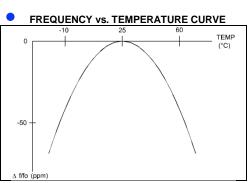
SURFACE MOUNT MICROPROCESSOR CRYSTAL

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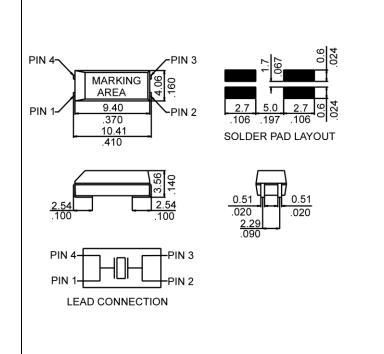
RSE-32.768-6-B-TR

SPECIFICATIONS

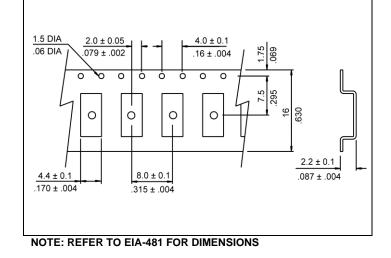
PARAMETER	VALUE
NOMINAL FREQUENCY	32.768 kHz
FREQUENCY TOLERANCE AT 25°C	±20 ppm max
TURNOVER TEMPERATURE	+25°C ±5°C
PARABOLIC CURVATURE CONSTANT	(-0.035 ±0.008) ppm/°C ²
OPERATING TEMPERATURE RANGE	-40°C to +85°C
STORAGE TEMPERATURE RANGE	-55°C to +125°C
AGING (FIRST YEAR)	±3 ppm max
LOAD CAPACITANCE	6 pF
EQUIVALENT SERIES RESISTANCE	50 kΩ max
Q FACTOR	60,000 typ
SHUNT CAPACITANCE	1.5 pF max
CAPACITANCE RATIO	450 typ
DRIVE LEVEL	1 µW max
INSULATION RESISTANCE	500 MΩ min @ DC 100 V



MECHANICAL SPECIFICATION



CARRIER TAPE DIMENSIONS



PACKAGING

330 mm REEL DIAMETER 16 mm TAPE WIDTH, 8 mm PITCH QUANTITY: 2000 PIECES PER REEL

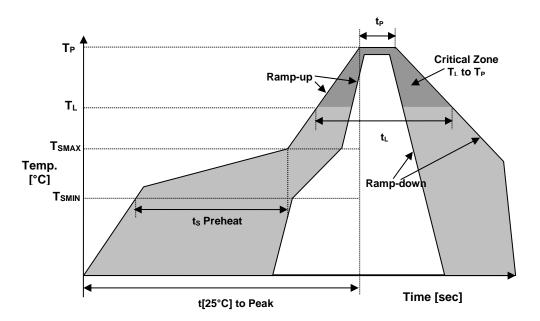
IN ACCORDANCE WITH EIA-481



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• REFLOW PROFILE



Reflow profile		
Temperature Min Preheat	T _{SMIN}	125°C
Temperature Max Preheat	T _{SMAX}	150°C
Time (T _{SMIN} to T _{SMAX})	t _S	60-180sec.
Temperature	TL	217°C
Peak Temperature	T _P	260°C
Ramp-up rate	R _{UP}	3°C/sec max.
Ramp-down rate	R _{DOWN}	6°C/sec max.
Time within 5°C of Peak Temperature	t _P	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	Sn





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MARKINGS

1) 32.768KHZ yy ww

2) x36myR

- x Internal Production ID code
- $m-Month \ code$
- $y-Year \; code$

MONTH CODE		
MONTH	CODE	
JANUARY	A	
FEBRUARY	В	
MARCH	C	
APRIL	D	
MAY	E	
JUNE	F	
JULY	G	
AUGUST	Н	
SEPTEMBER	J	
OCTOBER	К	
NOVEMBER	L	
DECEMBER	М	

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	

APPROVAL

DRAWN BY	KJackson, June 25, 2020	
APPROVED BY	Jlvens, June 25, 2020	
REVISION	A, Initial Release	
	B, Marking specs updated 12/10/20 KJ	
	C, Updated to current spec levels by XLiu, December 17, 2021	

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