

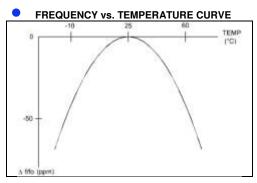
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RSM200S-32.768-6-TR, Rev C

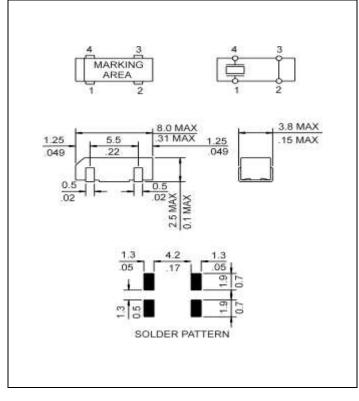
### SPECIFICATIONS

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 <sup>2</sup>
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
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

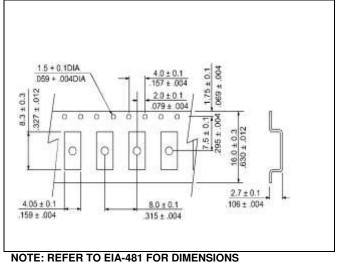




# MECHANICAL SPECIFICATION



### CARRIER TAPE DIMENSIONS



#### • PACKAGING

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

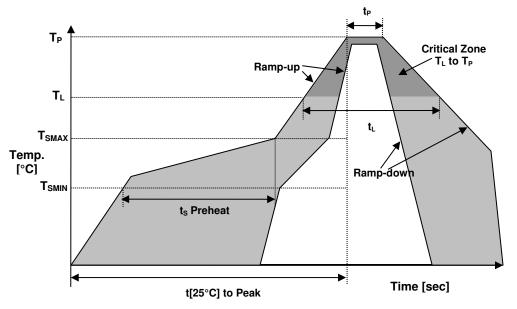
IN ACCORDANCE WITH EIA-481



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### REFLOW PROFILE



Reflow profile		
Temperature Min Preheat	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> )	ts	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	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	Exemption 7A
REACH SVHC	Compliant
HALOGEN-FREE	Compliant
ESD CLASSIFICATION LEVEL	N/A
TERMINATION FINISH	Sn
UNIT WEIGHT (GRAMS)	0.14





#### SURFACE MOUNT TUNING FORK CRYSTAL

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## RSM200S-32.768-6-TR, Rev C

#### 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	E	
JUNE	F	
JULY	G	
AUGUST	Н	
SEPTEMBER	J	
OCTOBER	К	
NOVEMBER	L	
DECEMBER	М	

YEAR CODE		
Year	Code	
2011	1	
2012	2	
2013	3	
2014	4	
2015	5	
2016	6	
2017	7	
2018	8	
2019	9	

#### APPROVAL

Drawn By:	FP, 28 February 2014
Approved By:	FP, 28 February 2014
Revision:	A, Initial Release
	B, CP, December 08, 2016
	Modified Operating Temp range
	C, Updated to current spec levels KJ
	6/6/19

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