

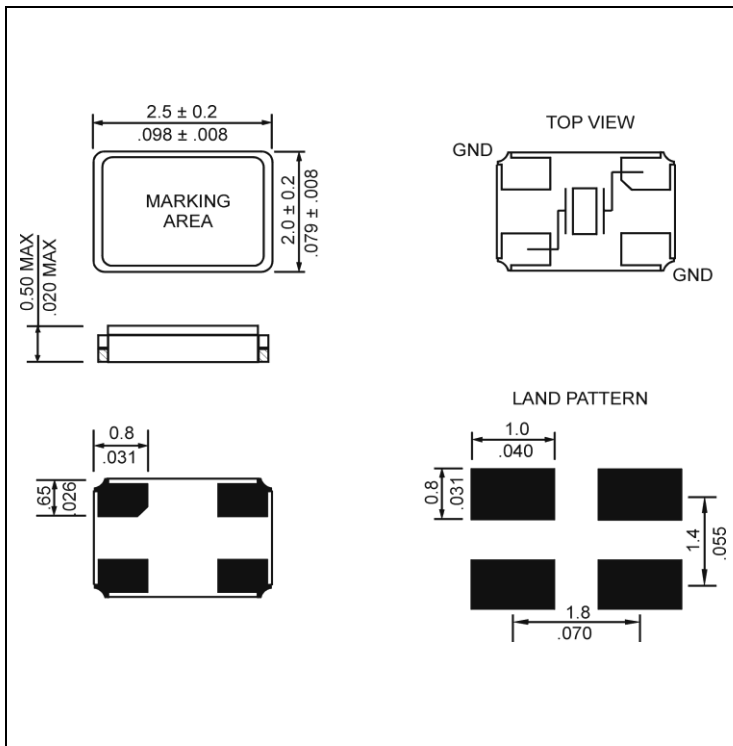
● SPECIFICATIONS

PARAMETER	VALUE
FREQUENCY RANGE	32.000 MHz
MODE OF OSCILLATION	Fundamental
FREQUENCY TOLERANCE AT 25°C	±20 ppm max
FREQUENCY STABILITY OVER TEMPERATURE	± 13 ppm @ -10~+60°C
	±20 ppm max
OPERATING TEMPERATURE RANGE	-25°C to +70°C ↔
STORAGE TEMPERATURE RANGE	-40°C to +85°C
AGING	±3 ppm per year max
LOAD CAPACITANCE	12 pF
EQUIVALENT SERIES RESISTANCE	50 Ω
SHUNT CAPACITANCE	5 pF max
DRIVE LEVEL	300 μW typ 500 μW max ↔
SHOCK RESISTANCE	±5 ppm max 75 cm Drop Test In 3 Axes Onto a Hard Surface
REFLOW CONDITIONS	260°C ±5°C for 10s max

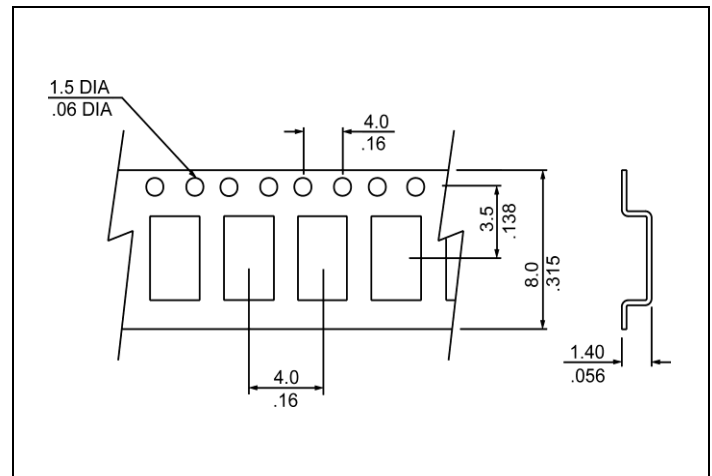


Photo is not actual part

● MECHANICAL SPECIFICATION



● CARRIER TAPE DIMENSIONS



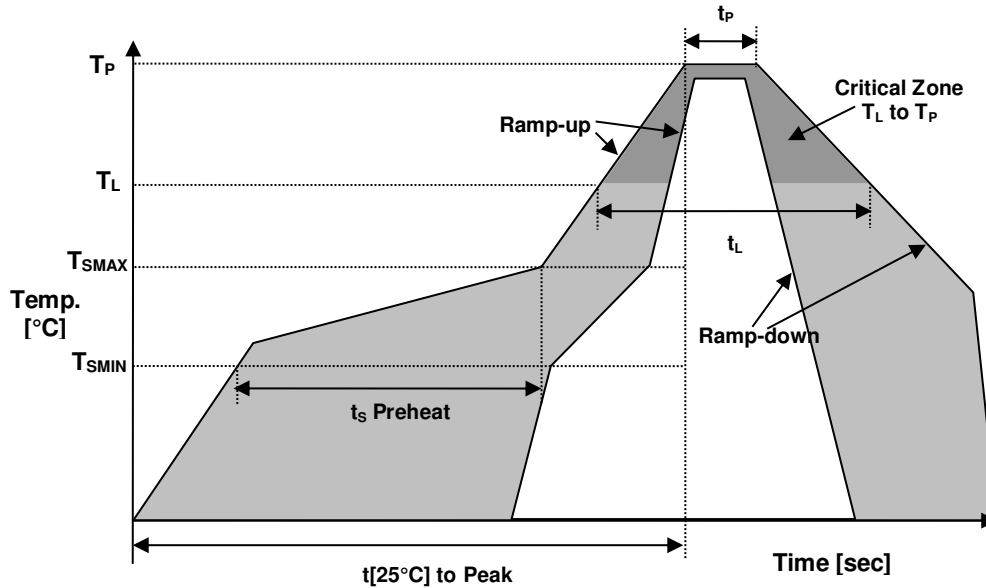
NOTE: REFER TO EIA-481 FOR DIMENSIONS

● PACKAGING

178 mm REEL DIAMETER
 8 mm TAPE WIDTH, 4 mm PITCH
 QUANTITY: 3000 PIECES PER REEL

IN ACCORDANCE WITH EIA-481

● 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	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 $t[25^\circ\text{C}]$ to Peak Temperature	$t[25^\circ\text{C}]$ to Peak	480 sec.
Time	t_L	60-150 sec.

● ENVIRONMENTAL

PARAMETER	VALUE
MOISTURE SENSITIVITY LEVEL	1
RoHS-2	6/6 COMPLIANT & LEAD FREE
REACH SVHC	COMPLIANT
HALOGEN-FREE	COMPLIANT
ESD CLASSIFICATION LEVEL	N/A
TERMINATION FINISH	Au



● **MARKING**

R32.0
xxJyw

xx – Internal Production ID code
y – Year code
w – Week code

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

ALPHA WEEK CODE TABLE					
Week	Code	Week	Code	Week	Code
1	a	19	s	37	K
2	b	20	t	38	L
3	c	21	u	39	M
4	d	22	v	40	N
5	e	23	w	41	O
6	f	24	x	42	P
7	g	25	y	43	Q
8	h	26	z	44	R
9	i	27	A	45	S
10	j	28	B	46	T
11	k	29	C	47	U
12	l	30	D	48	V
13	m	31	E	49	W
14	n	32	F	50	X
15	o	33	G	51	Y
16	p	34	H	52	Z
17	q	35	I		
18	r	36	J		

● **APPROVAL**

DRAWN BY	KJackson, August 1, 2014
APPROVED BY	KJackson, August 1, 2014
REVISION	A, Initial Release
	B, Corrected Mechanical Drawing, F. Parra, 02 September 2015
	C, Added Stability over Temperature Range ± 13 PPM @ -10~+60°C (KJ 11/23/15)