

**SPECIFICATIONS**

PARAMETER	VALUE
FREQUENCY RANGE	24.00 MHz
MODE OF OSCILLATION	Fundamental
FREQUENCY TOLERANCE AT 25°C	±10 ppm max
FREQUENCY STABILITY OVER TEMPERATURE	±10 ppm max
OPERATING TEMPERATURE RANGE	-20°C to +85°C ↕
STORAGE TEMPERATURE RANGE	-40°C to +85°C
AGING, 1 <sup>st</sup> YEAR	±2 ppm ↕
LOAD CAPACITANCE	9 pF
EQUIVALENT SERIES RESISTANCE	40 Ω ↕
SHUNT CAPACITANCE	2 pF max ↕
MOTIONAL CAPACITANCE	3.2 fF typ ↕
INSULATION RESISTANCE	500 MΩ min
DRIVE LEVEL	100 μW max ↕

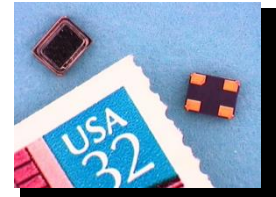
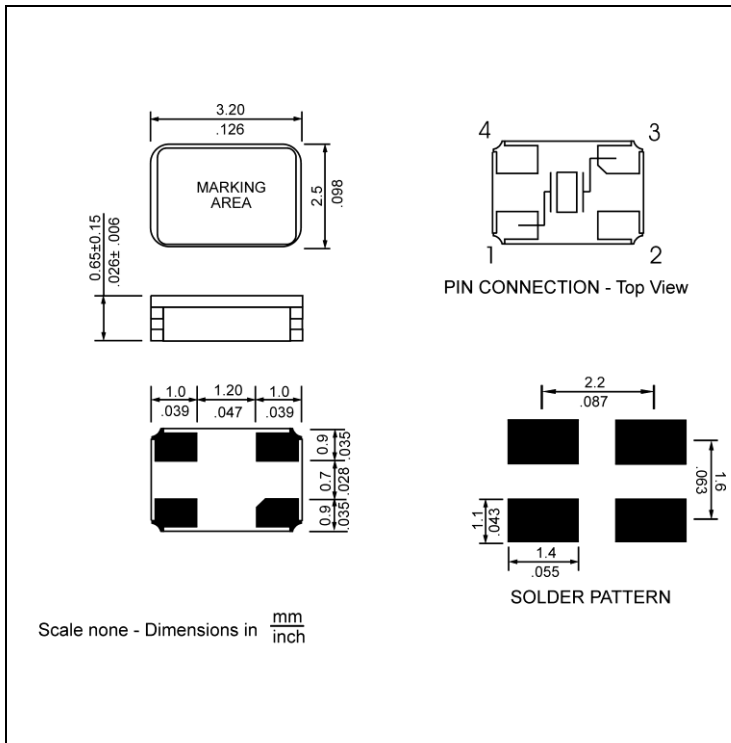
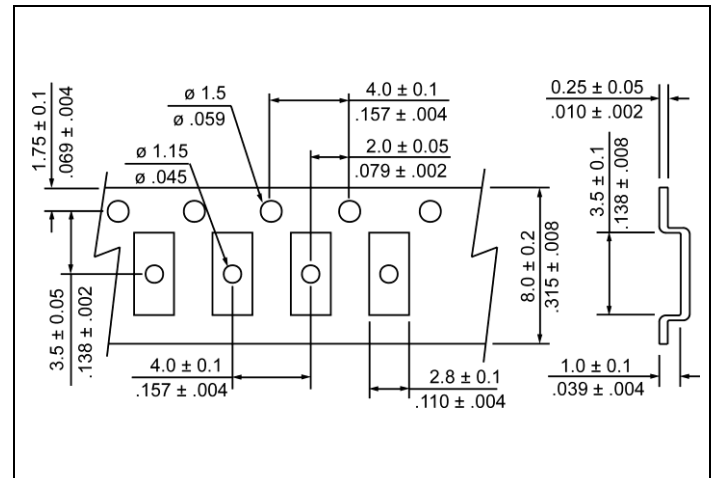


Photo is not actual part

**MECHANICAL SPECIFICATION**



**CARRIER TAPE DIMENSIONS**

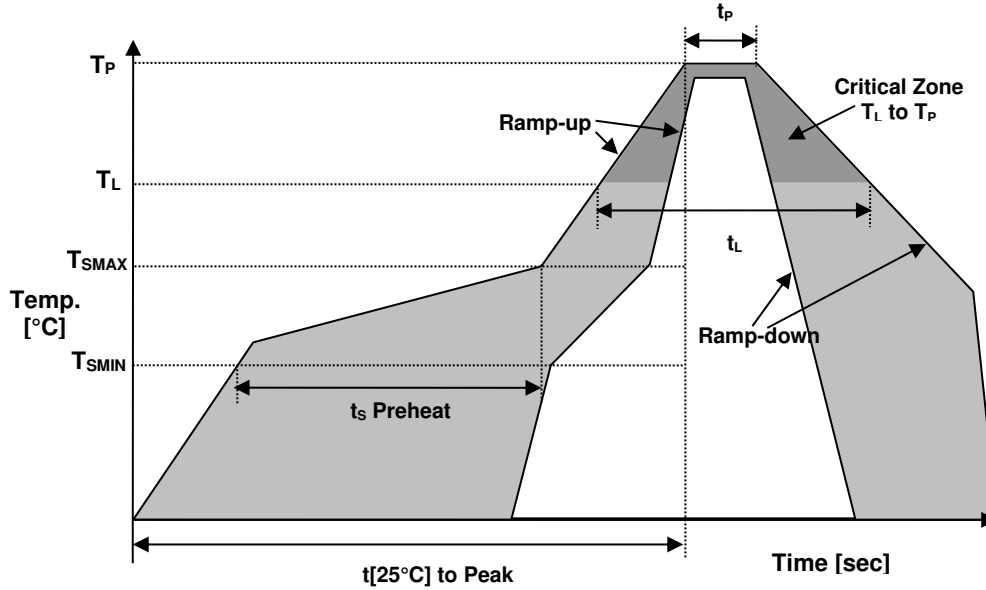


NOTE: REFER TO EIA-481 FOR DIMENSIONS

**PACKAGING**

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

● REFLOW PROFILE



Reflow profile		
Temperature Min Preheat	$T_{SMIN}$	125°C
Temperature Max Preheat	$T_{SMAX}$	150°C
Time ( $T_{SMIN}$ to $T_{SMAX}$ )	$t_s$	30-60 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 $t[25°C]$ to Peak Temperature	$t[25°C]$ to Peak	480 sec.
Time	$t_L$	60-150 sec.

● ENVIRONMENTAL

PARAMETER	VALUE
MOISTURE SENSITIVITY LEVEL	1
RoHS	COMPLIANT
REACH SVHC	COMPLIANT
HALOGEN-FREE	COMPLIANT
TERMINATION FINISH	Au



### ● MARKING

R24.00  
xx9Eyw

x – 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	LP, June 13, 2017
APPROVED BY	JI, June 13, 2017
REVISION	A, Initial Release