

SPECIFICATIONS

PARAMETER		VALUE
NOMINAL FREQUENCY		32.000 MHz
MODE OF OSCILLATION		Fundamental
FREQUENCY TOLERANCE AT 25°C		±10 ppm max
FREQUENCY STABILITY OVER TEMPERATURE	-30°C to +70°C	±10 ppm max ↕
	-40°C to +85°C	±15 ppm max
OPERATING TEMPERATURE RANGE		-40°C to +85°C
STORAGE TEMPERATURE RANGE		-40°C to +85°C
AGING		±2 ppm first year max
LOAD CAPACITANCE		10 pF
EQUIVALENT SERIES RESISTANCE		30 Ω typ, 50 Ω max ↕
SHUNT CAPACITANCE		1.04 typ, 2 pF max ↕
UNWANTED MODE(from F _n to F _n +500 kHz),R _p /R ₁		2 min ↕
DRIVE LEVEL		200 μW max

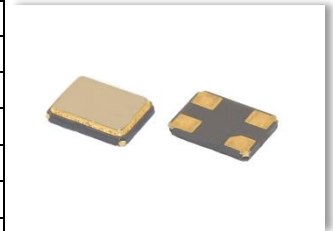
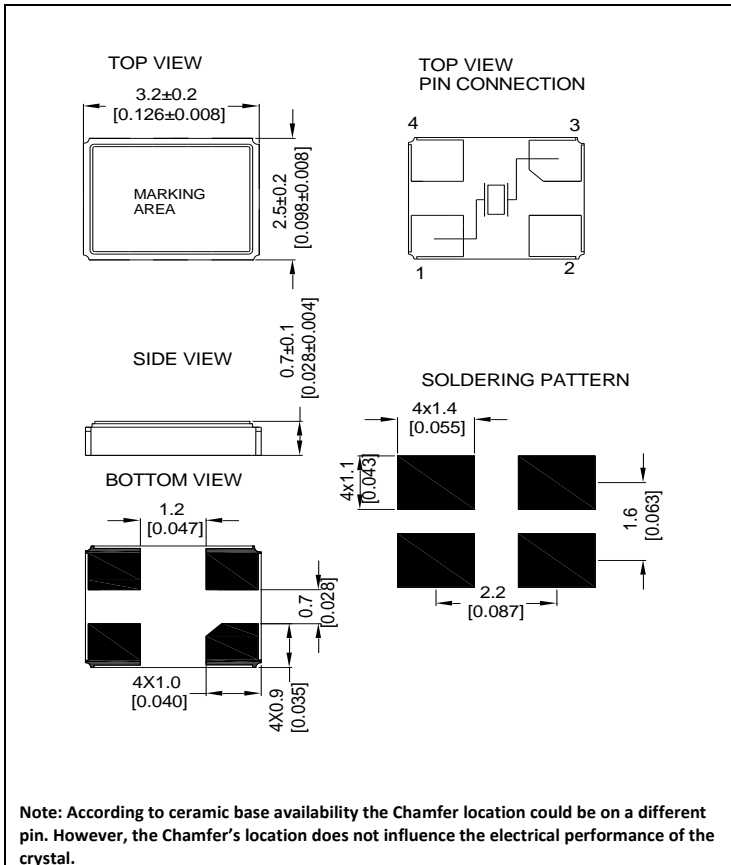
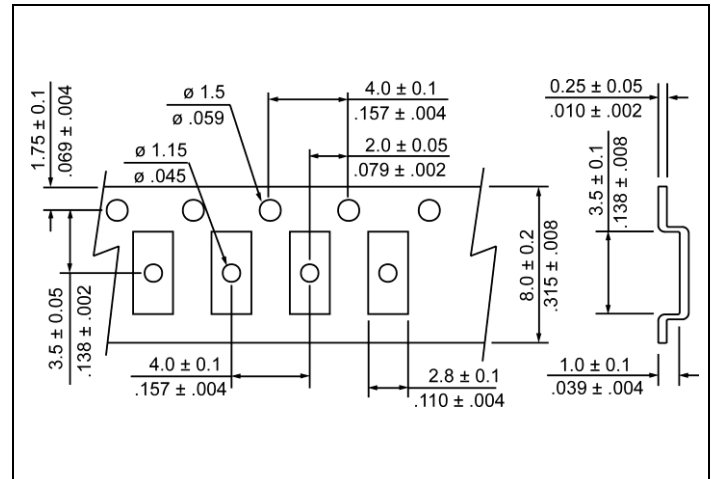


Photo is not actual part

MECHANICAL SPECIFICATION



CARRIER TAPE DIMENSIONS

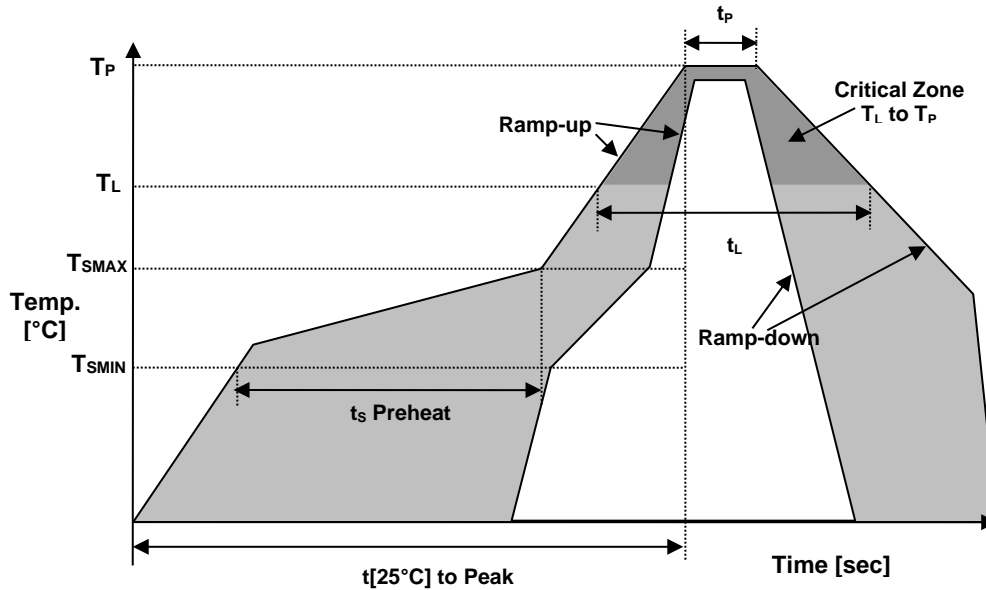


NOTE: REFER TO EIA-481 FOR DIMENSIONS

PACKAGING

178 mm REEL DIAMETER
 8 mm TAPE WIDTH, 4 mm PITCH
 QUANTITY: 3000 PIECES PER REEL
 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	Compliant
REACH SVHC	Compliant
HALOGEN-FREE	Compliant
ESD CLASSIFICATION LEVEL	N/A
TERMINATION FINISH	Au





A RAMI TECHNOLOGY Company

MARKING

R32.000
xKEyw

x – 1 or 2 Digits as Internal Production ID code
y – Year code
w – Week code

YEAR CODE	
Year	Code
2018	8
2019	9
2020	0
2021	1
2022	2
2023	3
2024	4
2025	5
2026	6
2027	7
2028	8
2029	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	AR, June 18, 2019
APPROVED BY	CP, June 18, 2019
REVISION	A, Initial Release B, Updated to current spec levels by XLiu, March 5, 2021

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