

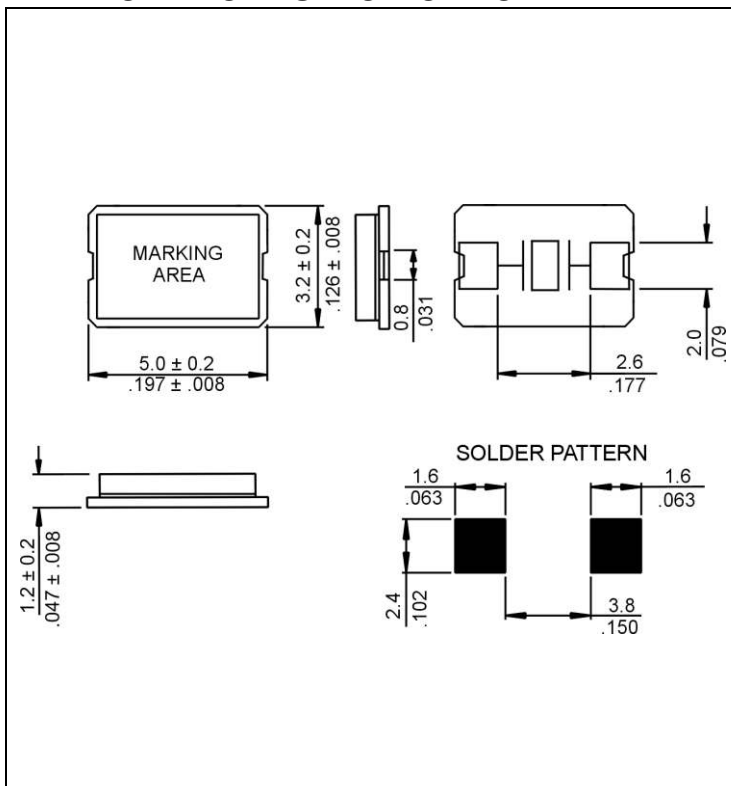
● SPECIFICATIONS

PARAMETER	VALUE
NOMINAL FREQUENCY	8.000 MHz
MODE OF OSCILLATION	Fundamental
FREQUENCY TOLERANCE AT 25°C	±20 ppm max
FREQUENCY STABILITY OVER TEMPERATURE	±30 ppm max
OPERATING TEMPERATURE RANGE	-20°C to +70°C
STORAGE TEMPERATURE RANGE	-40°C to +85°C
AGING	±3 ppm first year max ±1 ppm per year max thereafter
LOAD CAPACITANCE	8 pF
EQUIVALENT SERIES RESISTANCE	85 Ω max
SHUNT CAPACITANCE	5 pF max
MOTIONAL CAPACITANCE C1	3 fF typ, 5 fF max
DRIVE LEVEL	300 μW max
METHOD OF SEALING	Glass seal
REFLOW CONDITIONS	260°C for 10 sec max

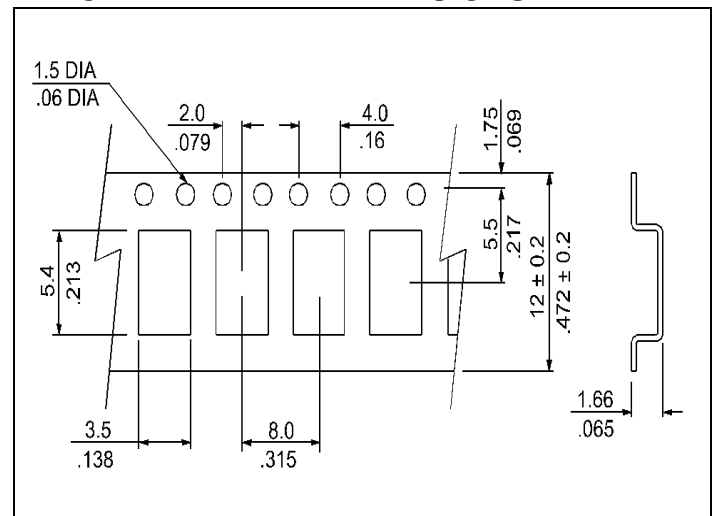


Photo is not actual part

● MECHANICAL SPECIFICATION



● CARRIER TAPE DIMENSIONS

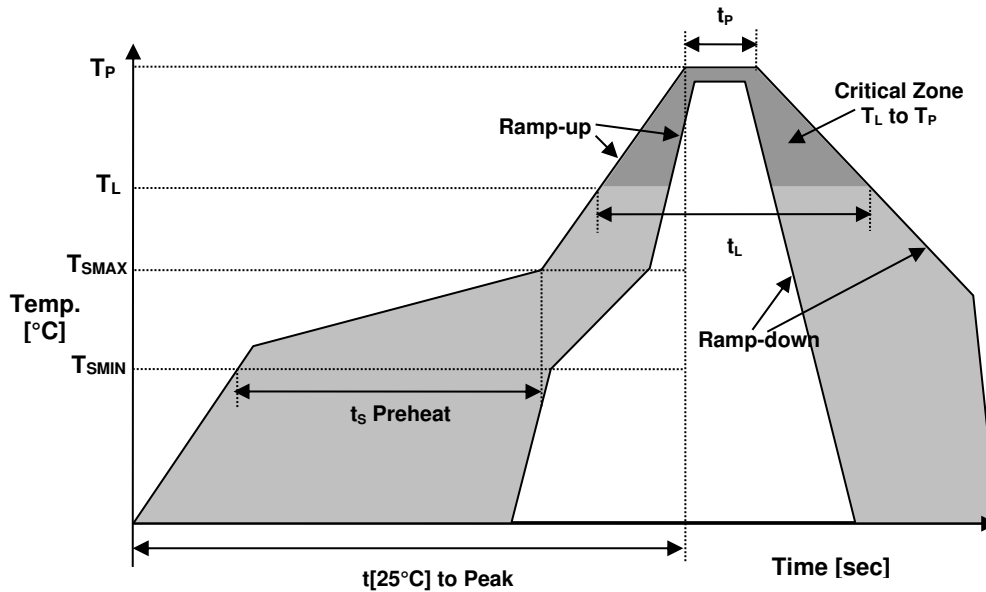


NOTE: REFER TO EIA-481 FOR DIMENSIONS

● PACKAGING

178 mm REEL DIAMETER  
12 mm TAPE WIDTH, 8 mm PITCH  
QUANTITY: 1000 PIECES PER REEL  
  
IN ACCORDANCE WITH EIA-481

● REFLOW PROFILE



Reflow profile		
Temperature Min Preheat	$T_{SMIN}$	125°C
Temperature Max Preheat	$T_{SMAX}$	150°C
Time ( $T_{SMIN}$ to $T_{SMAX}$ )	$t_s$	60-180 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





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H130A-8.000-8-2030-TR Rev C  
GLASS SEALED

● MARKING

R8.000  
xx8Dyw

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

YEAR CODE	
Year	Code
2015	5
2016	6
2017	7
2018	8
2019	9
2020	0
2021	1
2022	2
2023	3
2024	4
2025	5

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

RALTRON	
DRAWN BY:	KJackson, June 16, 2016
APPROVED BY:	KJackson, June 16, 2016
REVISION:	A, Initial Release
	B, Updated to current spec levels KJ 4/9/18
	C, Aging, motional capacitance, sealing method specs updated 7/10/20

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**SURFACE MOUNT MICROPROCESSOR CRYSTAL**

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**GLASS SEALED**