

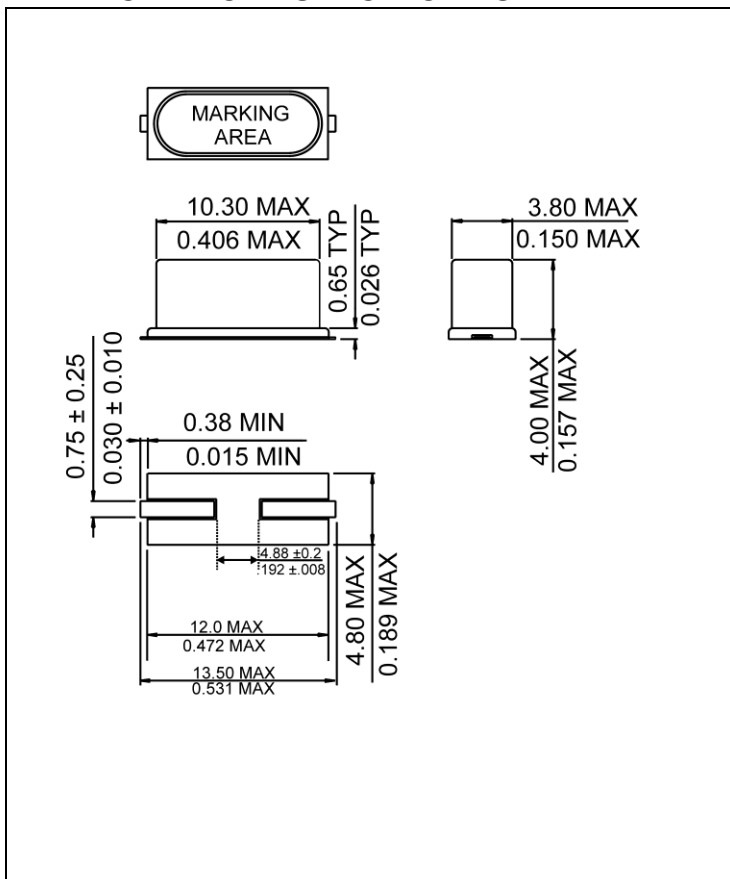
• SPECIFICATIONS

PARAMETER	VALUE
FREQUENCY RANGE	16.000 MHz
MODE OF OSCILLATION	FUNDAMENTAL
FREQUENCY TOLERANCE AT 25°C	±30 PPM MAXIMUM
FREQUENCY STABILITY OVER TEMPERATURE	±50 PPM MAXIMUM
OPERATING TEMPERATURE RANGE	-20°C TO +70°C STANDARD
STORAGE TEMPERATURE RANGE	-40°C TO +90°C
Max long term stability - AGING	±5 PPM PER YEAR MAXIMUM
LOAD CAPACITANCE	20 pF
EQUIVALENT SERIES RESISTANCE	40 Ω
SHUNT CAPACITANCE	5 pF MAXIMUM
DRIVE LEVEL	100 μW TYPICAL, 500 μW MAXIMUM
REFLOW CONDITIONS	260°C ±5°C FOR 10s MAXIMUM

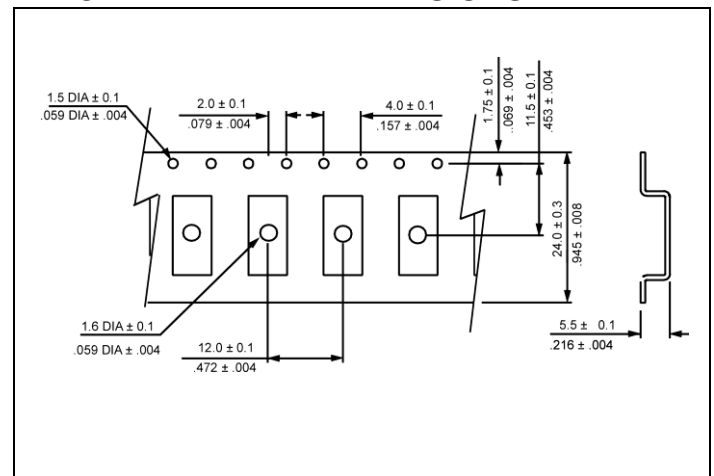


Photo is not actual part

• MECHANICAL SPECIFICATION



• CARRIER TAPE DIMENSIONS

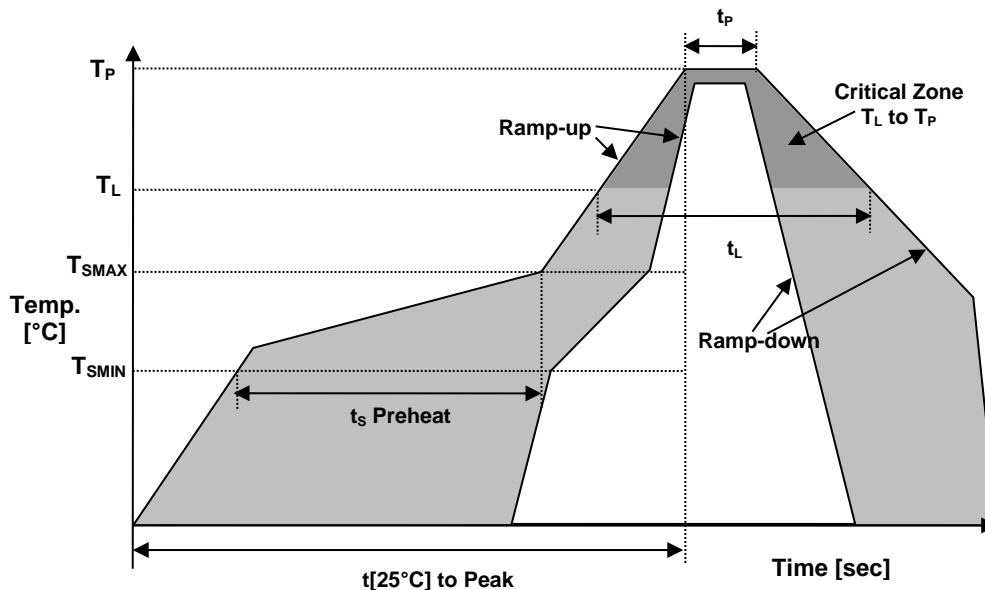


NOTE: REFER TO EIA-481 FOR DIMENSIONS

• PACKAGING

178 mm REEL DIAMETER  
24 mm TAPE WIDTH, 12 mm PITCH  
QUANTITY: 1000 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	Sn



● **MARKING**

R160xxAyw

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**

RALTRON	
DRAWN BY:	KJackson, Sept. 18. 2014
APPROVED BY:	KJackson, Sept. 18. 2014
REVISION:	A, Initial Release
	B, Per customer request; Parameter "Aging", added Max long term stability; Modified drawing to show pin-pin spacing; F. Parra, 11 November 2015