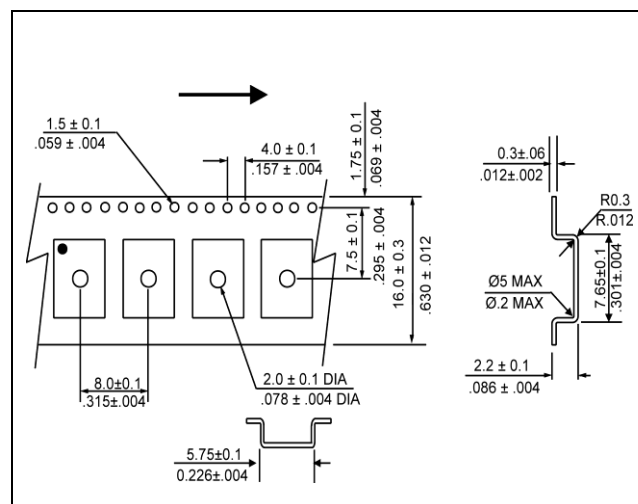
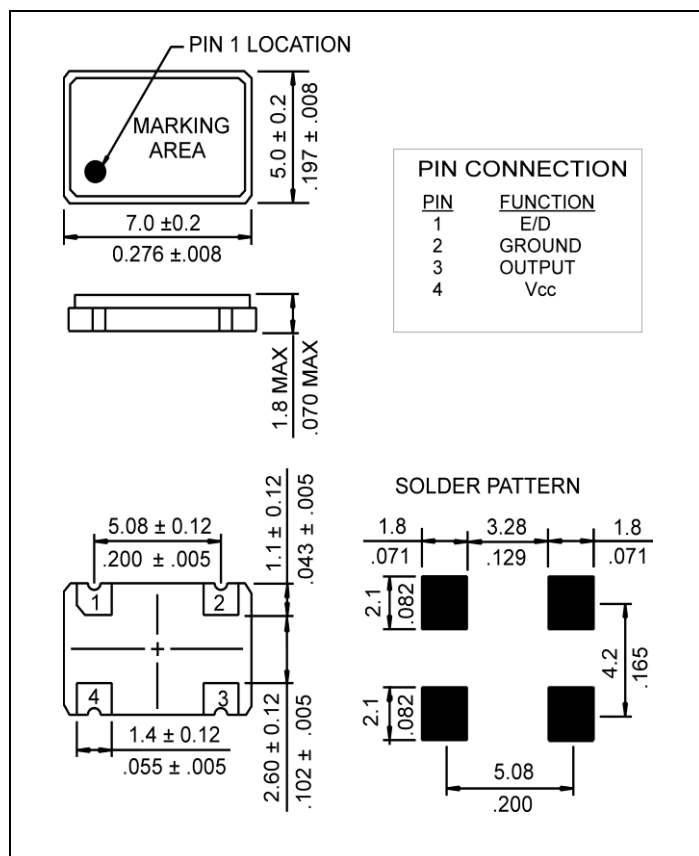


ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Frequency, nom	f_o	-	32.768	kHz
Supply voltage, nom.	V_{CC}	$V_{CC} \pm 10\%$	3.3	V
Supply current, max.	I_s	$V_{CC}=3.3$ VDC; $T_a=+25^\circ\text{C}$; Load=15 pF CMOS	0.5	mA
Output Voltage Levels	V_{OH} V_{OL}	Logic 1, min Logic 0, max	$0.9V_{CC}$ $0.1V_{CC}$	VDC VDC
Duty cycle	DC	@ 50% of signal	45...55	%
Rise time / Fall time, max.	t_r / t_f	20%~80% V_{out} , 80%~20% V_{out} ,	15	ns
Jitter, RMS, max.	J	1σ , $12\text{kHz} < F_i < 20\text{MHz}$	1.0	ps
Overall freq. stability, max.	$\Delta f/f_c$	Inclusive of 25° Tolerance, Operating Temperature Range, Voltage & Load Variations, Aging, Shock and Vibration.	± 20	ppm
Output Enabled / Disabled	E_n Dis	Pin 1: High Voltage or No Connect, Pin 3 Enabled Pin 1: Ground, Pin 3 Disabled	2.2 MIN 0.8 MAX	VDC VDC
Operating temperature range	T_a	-	-40...+85	$^\circ\text{C}$
Storage temperature range	$T(stg)$	-	-45...+90	$^\circ\text{C}$

MECHANICAL SPECIFICATION

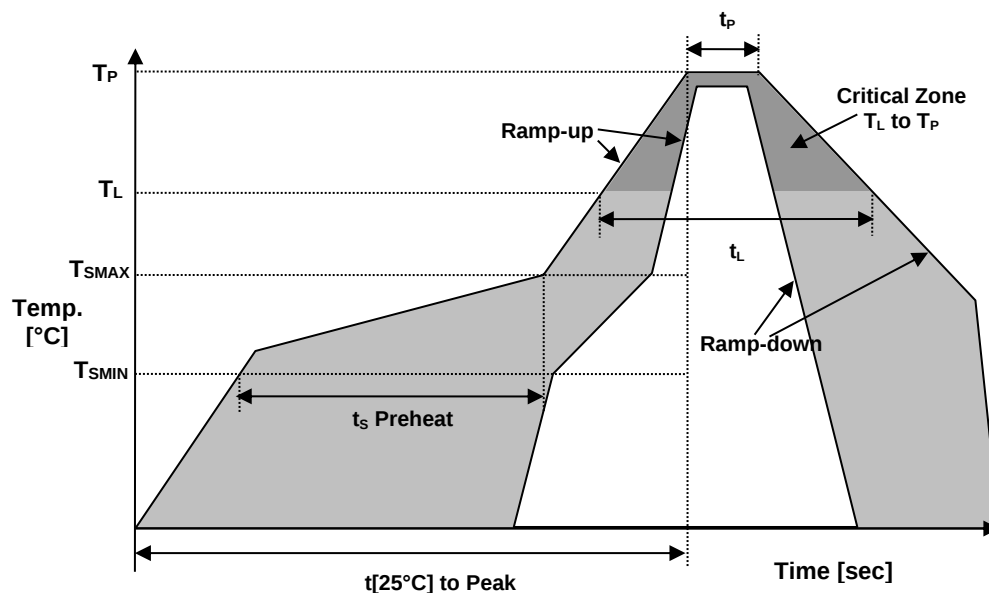


PACKAGING

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

OUTLINE TOLERANCE: $\pm 0.015"$ / 0.4mm (Unless otherwise specified)

REFLOW PROFILE



Reflow profile		
Temperature Min Preheat	$T_{S\text{MIN}}$	150°C
Temperature Max Preheat	$T_{S\text{MAX}}$	200°C
Time ($T_{S\text{MIN}}$ to $T_{S\text{MAX}}$)	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 LEAD FREE
REACH-SVHC	COMPLIANT
HALOGEN-FREE	COMPLIANT
TERMINATION FINISH	Au
UNIT WEIGHT (grams)	0.155





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CLOCK OSCILLATOR

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CO4302-0.032768-EXT-T-TR

● MARKING

Rxx32.7

•3Dyww

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, March 21, 2016
APPROVED BY:	CP, March 21, 2016
REVISION:	A, Initial Release

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