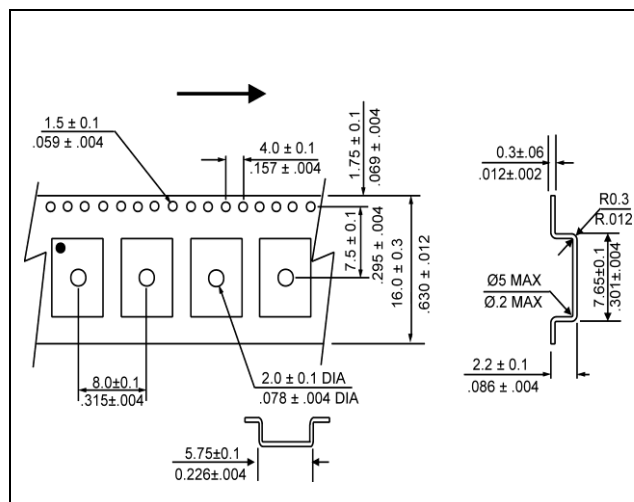
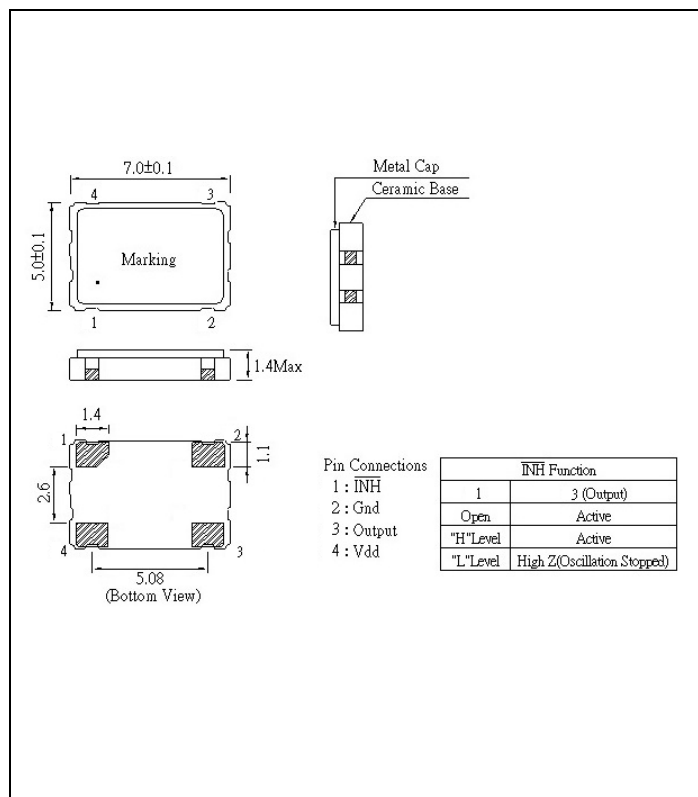


ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Frequency, nom	fo		24.000	MHz
Supply voltage, nom	Vcc	Vcc ±10%	3.3	V
Supply Current, max	Is	Ta=+25°C Load=15 pF CMOS or 5 TTL max	25	mA
Output Voltage Levels	V _{OH} V _{OL}	Logic 1 Logic 0	2.8 min 0.4 max	VDC VDC
Duty Cycle	DC	@ 50% of signal	45 ~ 55	%
Rise Time / Fall Time, max	tr / tf	20%~80% Vout, 80%~20% Vout,	4	ns
Start-up Time, max			10	ms
Jitter, RMS, max	J	1σ, 12kHz < Fj < 20MHz	1	ps
Freq. Stability, max	Δf/fc	Inclusive of 25° Tolerance, Operating Temperature Range, Voltage, Load Variations & First Year Aging	±50	ppm
Output Enabled / Disabled	En Dis	Pin 1: High Voltage or No Connect, Pin 3 Enabled Pin 1: Low voltage or Ground, Pin 3 Disabled (high impedance)	2.2 min 0.8 max	VDC VDC
Operating Temperature Range	Ta		-40 ~ +85	°C
Storage Temperature Range	T(stg)		-55 ~ +125	°C

MECHANICAL SPECIFICATION

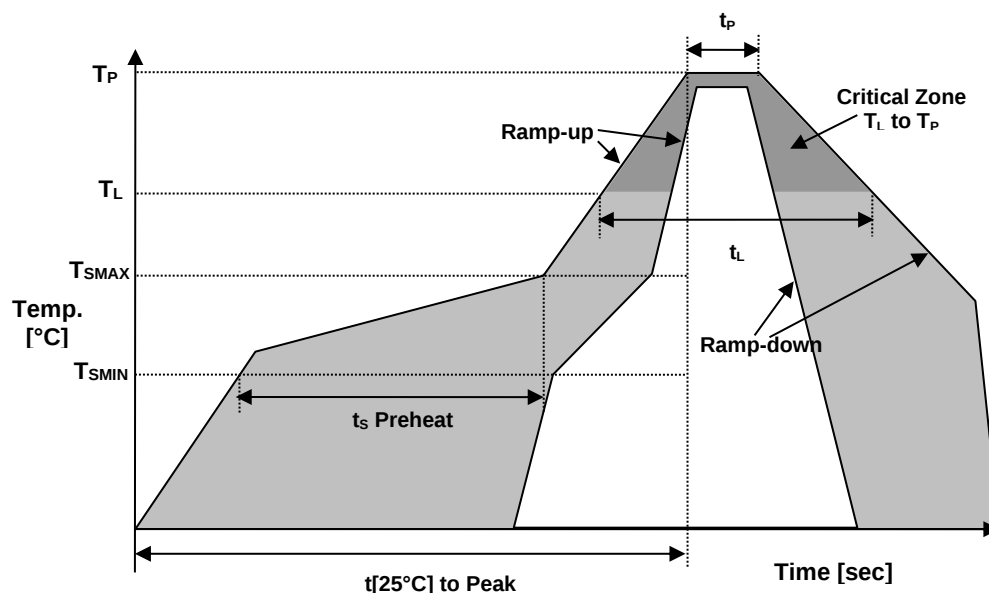


PACKAGING

254 mm REEL DIAMETER
16 mm TAPE WIDTH, 8 mm PITCH
QUANTITY: 1000 PIECES PER REEL

IN ACCORDANCE WITH EIA-481

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
TERMINATION FINISH	Au
UNIT WEIGHT (grams)	0.155





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CLOCK OSCILLATOR

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CO4305-24.000-EXT-T-TR

MARKING

Rx24.00T

•3BEyww

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:	KJackson, April 12, 2016
APPROVED BY:	KJackson, April 12, 2016
REVISION:	A, Initial Release B, Updated to current spec levels by XLiu, January 25, 2021

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