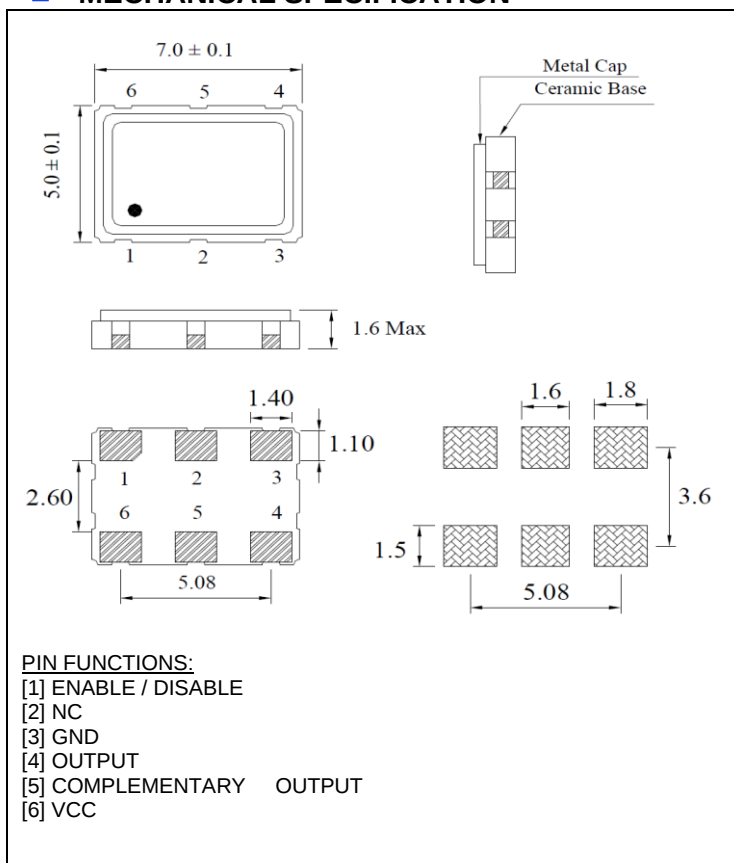


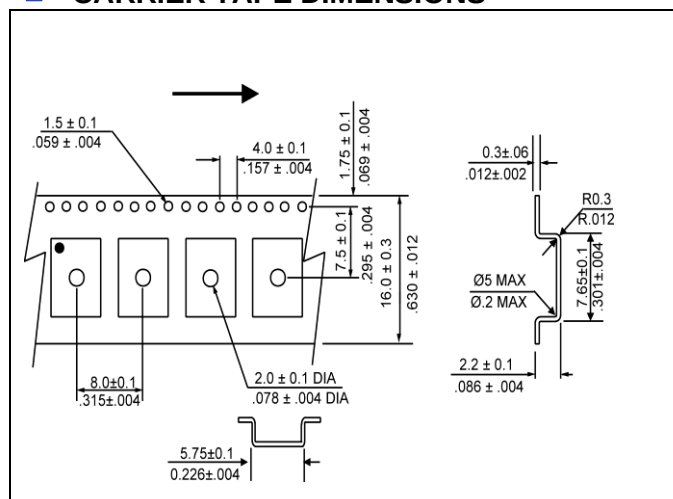
ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency	f_o	$T_a = 25^\circ\text{C}$	100.000	MHz
Supply Voltage	V_{CC}	$V_{CC} \pm 10\%$	3.3	VDC
Supply Current, max	I_s	$T_a = +25^\circ\text{C}$	80	mA
Operating Temperature Range	T_a		-40 to +85	$^\circ\text{C}$
Storage Temperature Range	$T_{(stg)}$	Absolute max	-55 to +125	$^\circ\text{C}$
Output Logic Type			LVPECL	
Overall Freq. Stability, max.	$\Delta f/f_o$	Inclusive of 25° Tolerance, Operating Temperature Range, Voltage, Load Variations	± 25	ppm
Aging, max		$T_a = 25^\circ\text{C}$, First year	± 3	ppm
Output Voltage	V_{OL}	V_{OL} , max	$V_{CC} - 1.620$	VDC
	V_{OH}	V_{OH} , min	$V_{CC} - 1.025$	VDC
Output Load		Terminus to $V_{CC} - 2V$	50	Ω
Enable / Disable Function	E/D	Pin 1: N.C. (Open) or High ($0.7 \times V_{CC}$)	Pin 4 & 5 – Oscillation (Enabled)	
		Pin 1: Low ($0.3 \times V_{CC}$)	Pin 4 & 5 – High Impedance (Disabled)	
Symmetry (Duty Cycle)	DC	@50% Vdd	45 to 55	%
Rise Time and Fall Time, max	t_r / t_f	@20% to 80% Vdd	0.5	ns
Phase Jitter, RMS, max	J	1σ , $12\text{kHz} < F_j < 20\text{MHz}$	0.5	ps
Start-up Time, max	T_s		10	ms

MECHANICAL SPECIFICATION



CARRIER TAPE DIMENSIONS

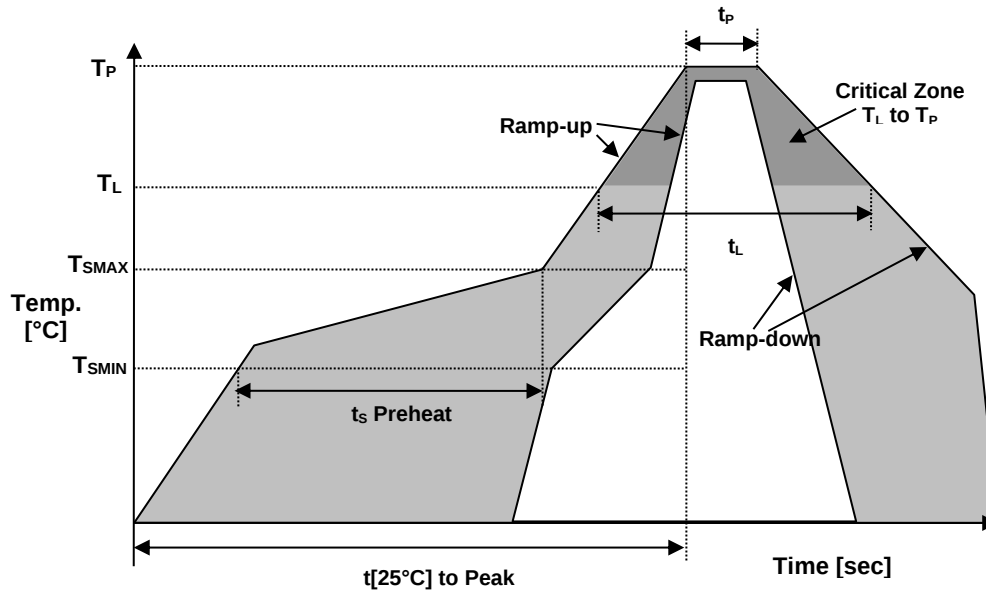


NOTE: REFER TO EIA-481 FOR DIMENSIONS NOT LISTED

PACKAGING

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

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°C] to Peak Temperature	t[25°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



MARKING

Rx100.0T

•3AEyw

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

RALTRON	
DRAWN BY:	AR, January 17, 2019
APPROVED BY:	CP, January 17, 2019
REVISION:	A, Initial Release B, Updated to current spec levels by XLiu, September 30, 2022

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