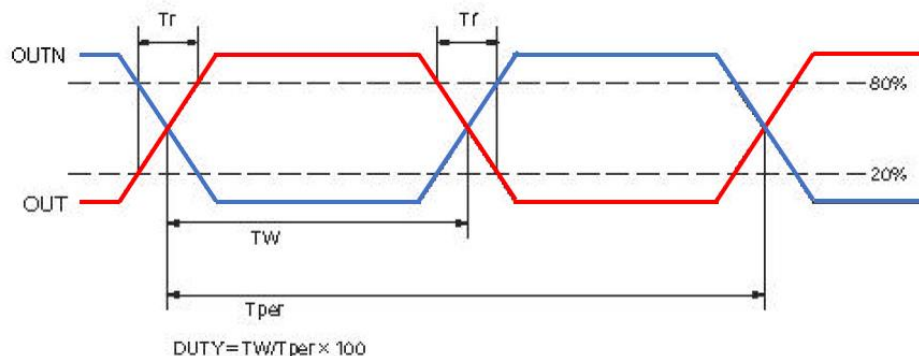


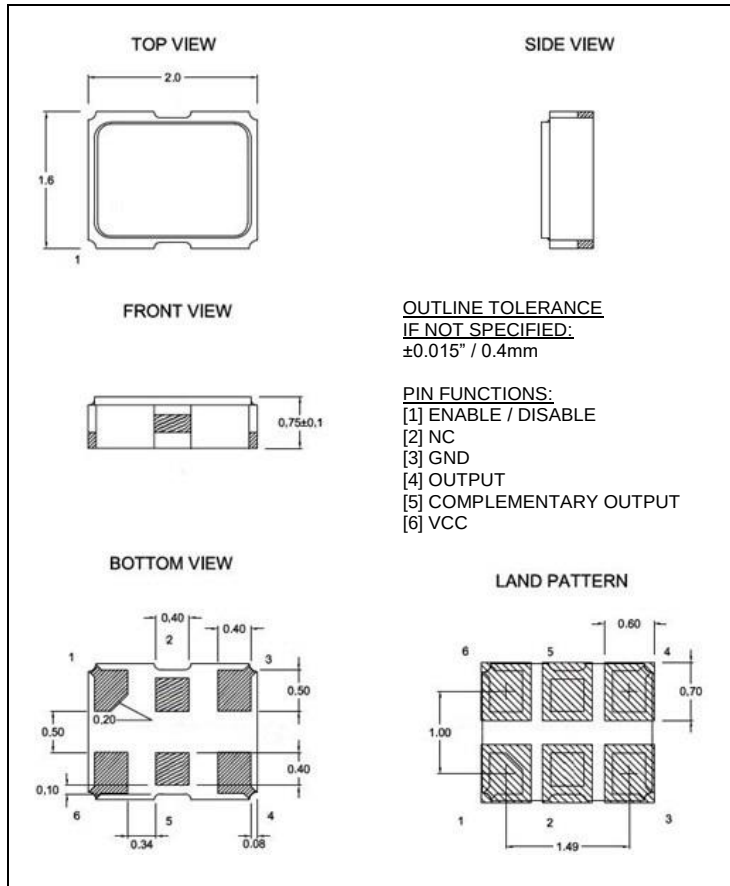
ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency	f_0	$T_a = 25^\circ\text{C}$	156.250	MHz
Oscillation Mode			Fundamental	-
Supply Voltage	V_{CC}	$V_{CC} \pm 10\%$	3.3	VDC
Current Consumption, max			20	mA
Operating Temperature Range	T_a	---	-40 ~ +105	$^\circ\text{C}$
Storage Temperature Range	$T_{(stg)}$	Absolute max	-55 ~ +125	$^\circ\text{C}$
Output Logic Type	---		LVDS	
Freq. Stability, max	$\Delta f/f_0$	Inclusive of 25°C Tolerance and Changes due to Operating Temperature, Supply Voltage, Load and Aging	± 100	ppm
Output Voltage	V_{OL}	Logic "0" Level, min	0.9	VDC
	V_{OH}	Logic "1" Level, max	1.6	VDC
Output Load	---	Out-OutN	100	Ω
Enable / Disable Function	E/D	Pin 1: High, Pins 4 & 5 – Oscillation (Enabled), min	$0.7 \times V_{CC}$	V
		Pin 1: Low, Pins 4 & 5 – High Impedance (Disabled), max	$0.3 \times V_{CC}$	V
Symmetry (Duty Cycle)	DC	@50% Wave Form	45 ~ 55	%
Stand by Current, max			10	μA
Offset Voltage, min/typ/max			1.125/1.250/1.375	V
Output Swing, min			0.4	V
Rise Time and Fall Time, max	t_r / t_f	@20% to 80% Wave Form	350	ps
Start up Time, max	t_{start}		2	ms
Jitter, RMS, max	J	$1\sigma, 12\text{kHz} < F_j < 20\text{MHz}$	50	fs
Phase Noise, typ	$E(\Delta f)$	@10Hz	-73.74	dBc/Hz
		@100Hz	-104.71	
		@1kHz	-133.87	
		@10kHz	-149.44	
		@100kHz	-153.29	
		@1MHz	-162.25	
		@40MHz	-167.62	

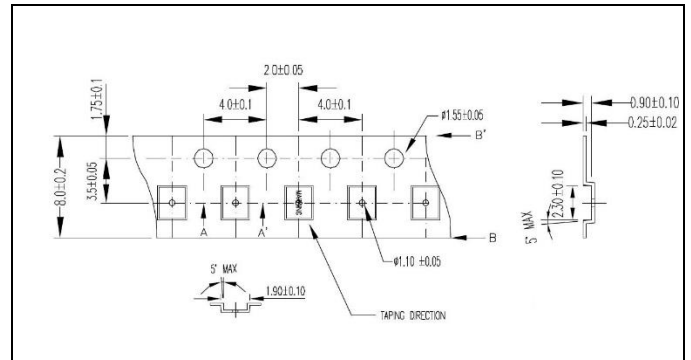
OUTPUT WAVEFORM



MECHANICAL SPECIFICATION



CARRIER TAPE DIMENSIONS

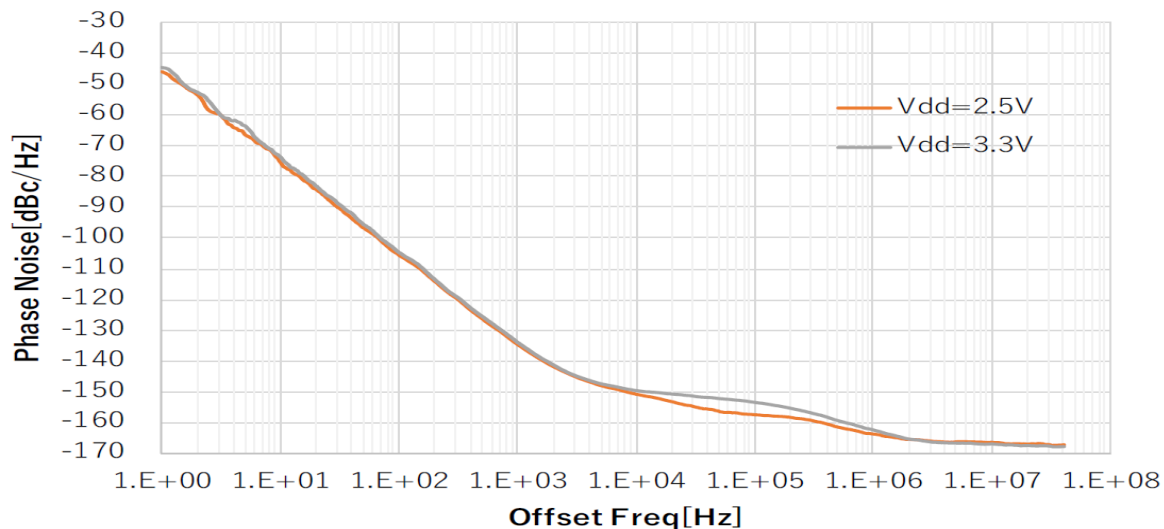


NOTE: REFER TO EIA-481 FOR DIMENSIONS NOT LISTED

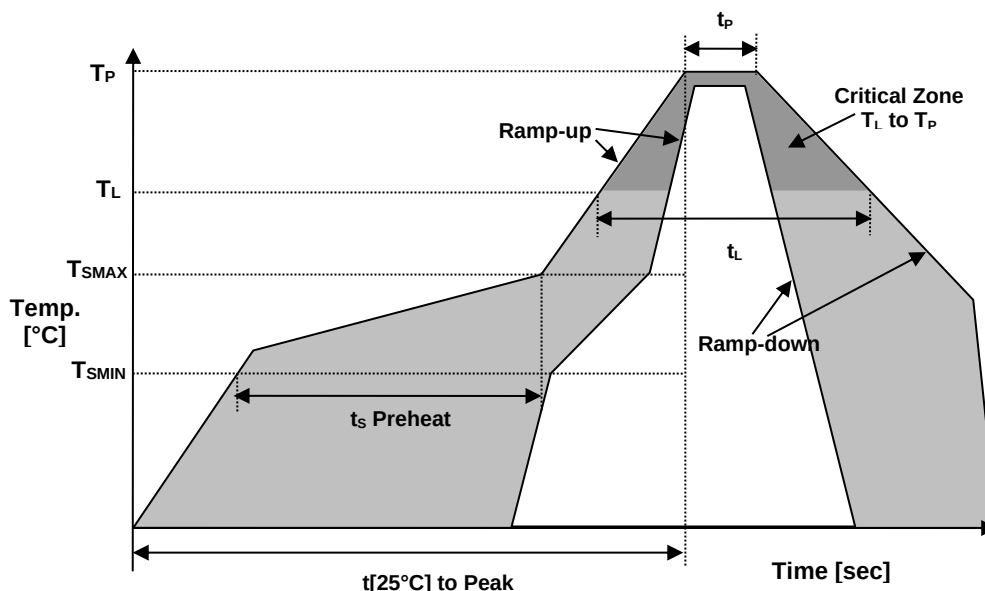
PACKAGING

180 mm REEL DIAMETER
8 mm TAPE WIDTH, 4 mm PITCH
QUANTITY: 3000 PIECES PER REEL

PHASE NOISE GRAPH



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



MARKING

Rxx156
•3CEyw

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

YEAR CODE	
Year	Code
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		
18	r	36	J		

APPROVAL

RALTRON	
DRAWN BY:	JS, February 6, 2025
APPROVED BY:	LS, February 6, 2025
REVISION:	A, Initial Release B, Updated Marking, JS, 02/14/25

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