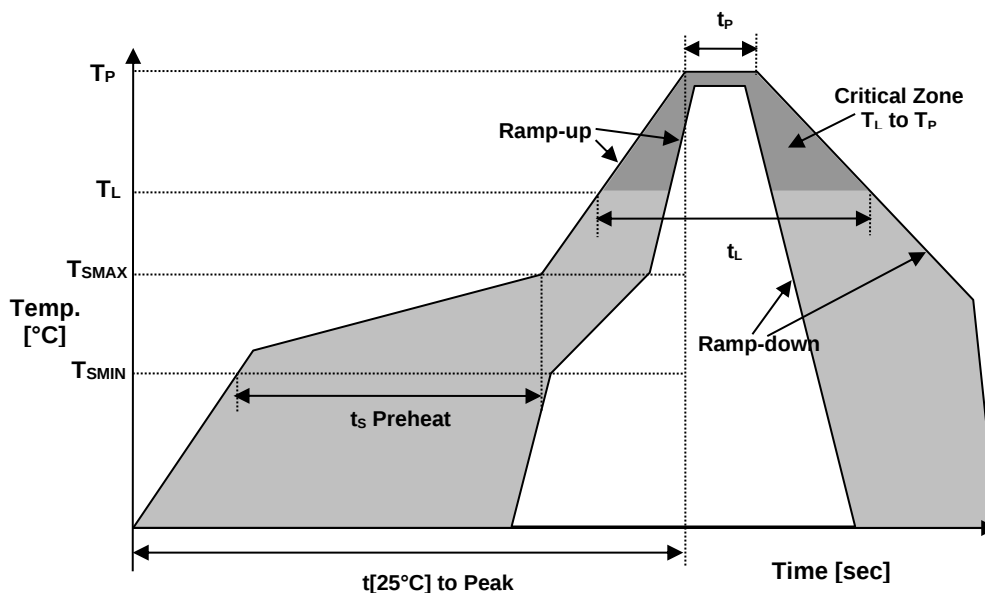


■ ELECTRICAL SPECIFICATION

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}	$V_{CC} \pm 5\%$	1.8	VDC
Supply Current, max			35	mA
Operating Temperature Range	T_a	---	-40 ~ +85	$^\circ\text{C}$
Storage Temperature Range	$T_{(stg)}$	Absolute max	-55 ~ +125	$^\circ\text{C}$
Output Logic Type	---		HCSL	
Freq. Stability, max	$\Delta f/f_0$	Inclusive of 25°C Tolerance and Changes due to Operating Temperature, Supply Voltage, Load, and Aging	± 50	ppm
Output Voltage	V_{OL}	Logic "0" Level, min	-0.15	V
	V_{OH}	Logic "1" Level, max	1.0	V
Output Load	---	To GND and $R_s = 33\Omega$ or 0Ω	50	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			5	μA
Differential Output Swing, min/max	V_{opp}		0.55/1.1	V
Rise Time and Fall Time, max	t_r / t_f	@20% to 80% Wave Form	0.6	ns
Start up Time, max	t_{start}		2	ms
Jitter, RMS, typ	J	$1\sigma, 12\text{kHz} < F_j < 20\text{MHz}$	50.7	fs
Phase Noise @1.8V, typ	$\mathcal{E}(\Delta f)$	@10Hz	-75.14	dBc/Hz
		@100Hz	-105.69	
		@1kHz	-133.25	
		@10kHz	-147.69	
		@100kHz	-156.14	
		@1MHz	-161.14	
		@40MHz	-161.98	

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
•1BEyw

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 26, 2025
APPROVED BY:	CP, February 26, 2025
REVISION:	A, Initial Release

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