

LVDS CLOCK OSCILLATOR

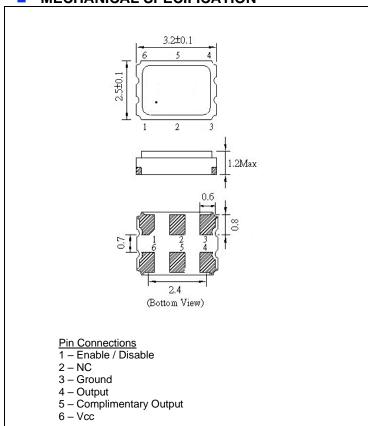
Page 1 of 3

CL3225-50.000-2.5-25-X-T-TR

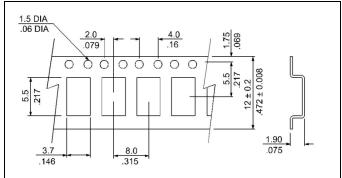
ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency	fo	Ta=25°C	50.000	MHz
Supply Voltage	Vcc	Vcc ±5%	2.5	VDC
Supply Current, max	Is	Vcc; Ta=+25°C;	40	mA
Operating Temperature Range	Ta		-40 to +85	°C
Storage Temperature Range	T _(stg)	Absolute max	-55 to +125	°C
Output Logic Type			LVDS	
Overall Freq. Stability, Max.	Δf/fo	Inclusive of 25°C Tolerance and Changes due to Operating Temperature, Supply Voltage, Load, Aging, Shock and Vibration	±25	ppm
Outrout Valtage	Vol	Logic "0" Level	0.9 Min	VDC
Output Voltage	V _{OH}	Logic "1" Level	1.6 Max	VDC
Output Load		Connected between Out and Complementary Out	100	Ω
Frankla / Disabla Francisco	E/D	Pin 1: N.C. (Open) or High (0.7 x Vcc)	Pin 4 & 5 – Oscillation (Enabled)	
Enable / Disable Function	E/D	Pin 1: Low (0.3 x Vcc)	Pin 4 & 5 – High Impedance (Disabled)	
Symmetry (Duty Cycle)	DC	@50% Vdd	45 to 55	%
Rise Time and Fall Time	tr / tf	@20% to 80% Vdd	1.0	ns
Jitter, RMS, max.	J	1σ, 12kHz < Fj < 20MHz	1.0	ps

MECHANICAL SPECIFICATION



CARRIER TAPE DIMENSIONS



NOTE: REFER TO EIA-481 FOR DIMENSIONS NOT LISTED

PACKAGING

178 mm REEL DIAMETER 12 mm TAPE WIDTH, 8 mm PITCH QUANTITY: 1000 PIECES PER REEL

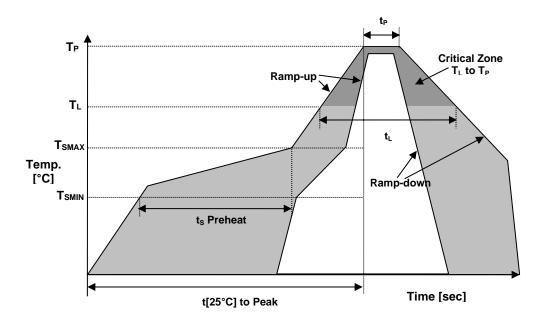


LVDS CLOCK OSCILLATOR

Page 2 of 3

CL3225-50.000-2.5-25-X-T-TR

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∟	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





LVDS CLOCK OSCILLATOR

Page 3 of 3

CL3225-50.000-2.5-25-X-T-TR

MARKING

Rx50.0 •2AEyw

x – Internal Production ID code

y - Year code

w - Week code

YEAR CODE		
Year	Code	
2015	5	
2016	6	
2017	7	
2018	8	
2019	9	
2020	0	
2021	1	
2022	2	
2023	3	
2024	4	
2025	5	

ALPHA WEEK CODE TABLE					
Week	Code	Week	Code	Week	Code
1	а	19	S	37	K
2	b	20	t	38	L
3	С	21	u	39	M
4	d	22	٧	40	N
5	е	23	W	41	0
6	f	24	Х	42	Р
7	g	25	У	43	Q
8	h	26	Z	44	R
9	i	27	Α	45	S
10	j	28	В	46	Т
11	k	29	С	47	U
12	I	30	D	48	V
13	m	31	E	49	W
14	n	32	F	50	X
15	0	33	G	51	Υ
16	р	34	Н	52	Z
17	q	35	I		
18	r	36	J		·

APPROVAL

RALTRON		
DRAWN BY:	AR, January 21, 2019	
APPROVED BY:	CP, January 21, 2019	
REVISION:	A, Initial Release	

Raltron Electronics/RAMI Technology USA, LLC, including its affiliates, employees, agents and other persons acting on its behalf (collectively Raltron/RAMI Tech), disclaim any and all liability for any errors or inaccuracies contained in this data sheet. While Raltron/RAMI Tech has made every reasonable effort to ensure the accuracy of all product information, specifications and data contained herein, Raltron/RAMI Tech does not guarantee that the information is accurate, reliable or current. The product information is provided for reference purposes only and is subject of an application or version, at any time without notice. Raltron/RAMI Tech does not assume any liability arising out of an application or use of any product described herein and disclaims any warranties expressed or implied. The user of products in such applications shall assume all risks of such use and will agree to hold Raltron/RAMI Tech, harmless against all damages.