

LVDS CLOCK OSCILLATOR

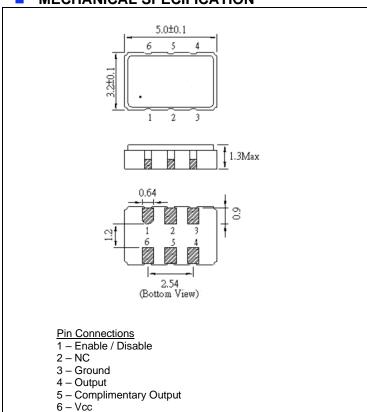
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CL5032-100.000-2.5-25-X-T-TR

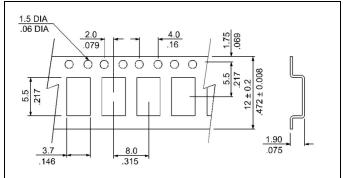
ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency	fo	Ta=25°C	100.000	MHz
Supply Voltage	Vcc	Vcc ±5%	2.5	VDC
Supply current, max	Is	Vcc; Ta=+25°C;	60	mΑ
Operating Temperature Range	Та		-40 to +85	°C
Storage temperature	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
Output Voltage	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
5 H /B: H 5 /:	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.		ns
Jitter, RMS, max.	J	1σ , $12kHz < F_j < 20MHz$ 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

NOTE: A capacitor of 0.01 µF between Vcc and Ground is recommended

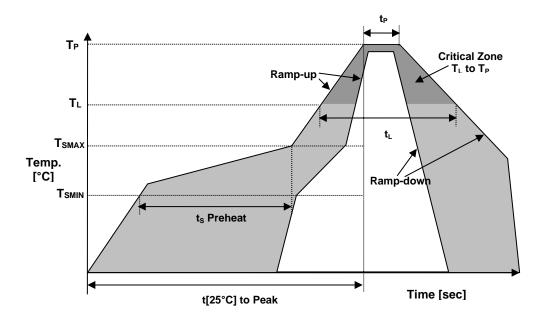


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REFLOW PROFILE



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





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MARKING

Rx100.0 •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	М
4	d	22	V	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	Е	49	W
14	n	32	F	50	Χ
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 18, 2019	
APPROVED BY:	CP, January 18, 2019	
REVISION:	A, Initial Release	

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