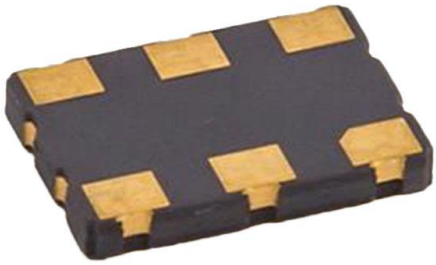
P5032-250.000-2.5-25-X-T-TR Datashe



DiGi Electronics Part Number	CP5032-250.000-2.5-25-X-T-TR-DG
Manufacturer	Raltron Electronics
Manufacturer Product Number	CP5032-250.000-2.5-25-X-T-TR
Description	XTAL OSC XO 250MHZ 2.5V LVPECL
Detailed Description	250 MHz XO (Standard) LVPECL Oscillator 2.5V Enable/Disable 6-SMD, No Lead

Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
CP5032-250.000-2.5-25-X-T-TR	Raltron Electronics
Series:	Product Status:
CP5032	Active
Base Resonator:	Type:
Crystal	XO (Standard)
Frequency:	Function:
250 MHz	Enable/Disable
Output:	Voltage - Supply:
LVPECL	2.5V
Frequency Stability:	Absolute Pull Range (APR):
±25ppm	-
Operating Temperature:	Spread Spectrum Bandwidth:
-40°C ~ 85°C	-
Current - Supply (Max):	Ratings:
80mA	-
Mounting Type:	Package / Case:
Surface Mount	6-SMD, No Lead
Size / Dimension:	Height - Seated (Max):
0.197" L x 0.126" W (5.00mm x 3.20mm)	0.051" (1.30mm)
Current - Supply (Disable) (Max):	
-	

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8542.39.0001	

A RAMI TECHNOLOGY Company

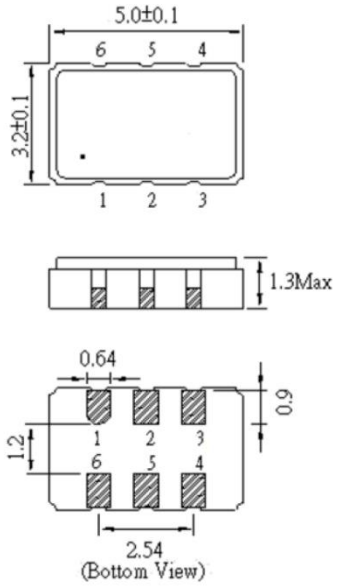
LVPECL CLOCK OSCILLATOR

CP5032-250.000-2.5-25-X-T-TR

ELECTRICAL SPECIFICATION

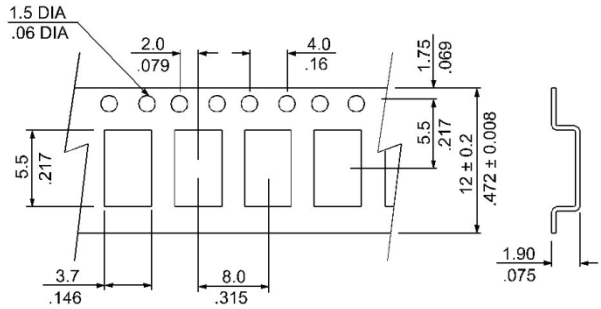
PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency	fo	Ta=25°C	250.000	MHz
Supply Voltage	V_{CC}	V_{CC} ±10%	2.5	VDC
Supply Current, max	I_S	Ta=25°C	80	mA
Operating Temperature Range	Ta		-40 to +85	°C
Storage Temperature Range	$T_{(stg)}$	Absolute max	-55 to +125	°C
Output Logic Type			LVPECL	
Overall Freq. Stability, max.	Δf/fo	Inclusive of 25°C Tolerance and Changes due to Operating Temperature	±25	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 x Vcc)	Pin 4 & 5 – Oscillation (Enabled)	
		Pin 1: Low (0.3 x Vcc)	Pin 4 & 5 – High Impedance (Disabled)	
Symmetry (Duty Cycle)	DC	@50% Vdd	45 ~ 55	%
Rise Time and Fall Time	tr / tf	@20% to 80% Vdd	1.0	ns
Jitter, RMS, typ / max	J	1σ, 12kHz < F_j < 20MHz	2.0	ps
Start-up Time, max	Ts		5	ms

MECHANICAL SPECIFICATION



PIN FUNCTIONS:
[1] ENABLE / DISABLE
[2] NC
[3] GND
[4] OUTPUT
[5] COMPLEMENTARY OUTPUT
[6] VCC

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

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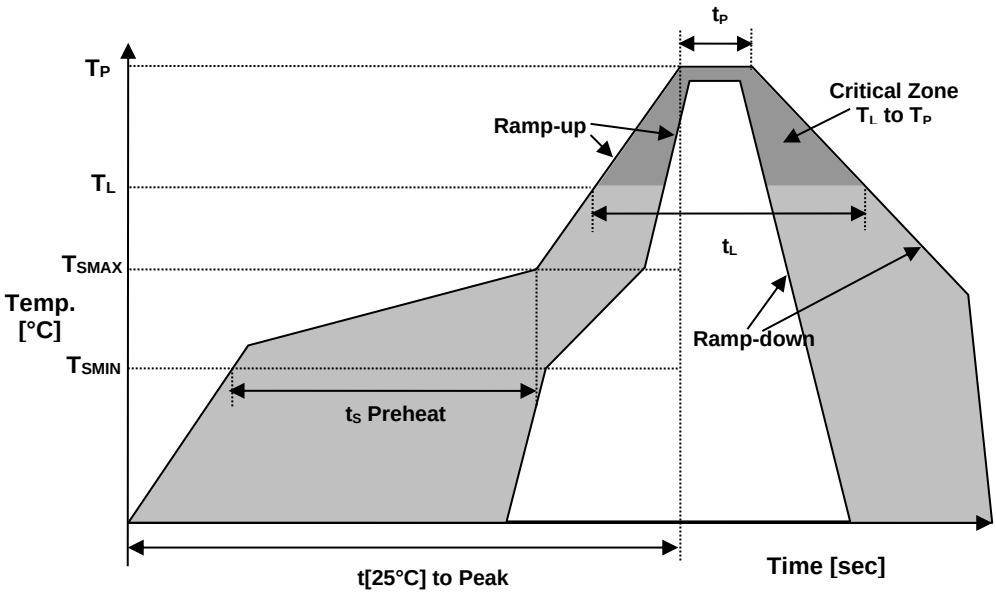
LVPECL CLOCK OSCILLATOR

CP5032-250.000-2.5-25-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_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

RoHS Compliant

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LVPECL CLOCK OSCILLATOR

CP5032-250.000-2.5-25-X-T-TR

MARKING

Rx250.0T
•2AEyw

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
2029	8
2029	9

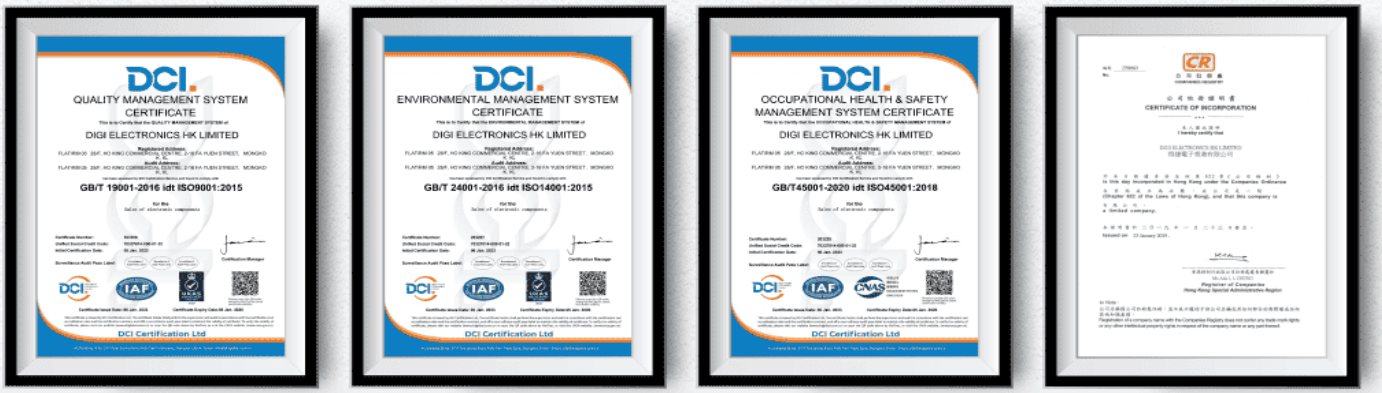
ALPHA WEEK CODE TABLE					
Week	Code	Week	Code	Week	Code
1	a	19	s	37	K
2	b	20	t	38	L
3	c	21	u	39	M
4	d	22	v	40	N
5	e	23	w	41	O
6	f	24	x	42	P
7	g	25	y	43	Q
8	h	26	z	44	R
9	i	27	A	45	S
10	j	28	B	46	T
11	k	29	C	47	U
12	l	30	D	48	V
13	m	31	E	49	W
14	n	32	F	50	X
15	o	33	G	51	Y
16	p	34	H	52	Z
17	q	35	I		
18	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 21, 2022

OUR CERTIFICATE

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we striciy control the quality of products and services. Welcome your RFQ to Email: Info@DiGi-Electronics.com



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DiGi is a global authorized distributor of electronic components.