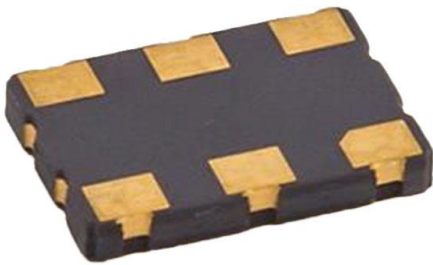


# P7050-50.000-2.5-25-X-T-TR Datasheet

[www.digi-electronics.com](http://www.digi-electronics.com)



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	CP7050-50.000-2.5-25-X-T-TR-DG
Manufacturer	<a href="#">Raltron Electronics</a>
Manufacturer Product Number	CP7050-50.000-2.5-25-X-T-TR
Description	XTAL OSC XO 50MHZ 2.5V LVPECL
Detailed Description	50 MHz XO (Standard) LVPECL Oscillator 2.5V Enable/Disable 6-SMD, No Lead



Tel: +00 852-30501935

RFQ Email: [Info@DiGi-Electronics.com](mailto:Info@DiGi-Electronics.com)

DiGi is a global authorized distributor of electronic components.

## Purchase and inquiry

Manufacturer Product Number:

CP7050-50.000-2.5-25-X-T-TR

Series:

CP7050

Base Resonator:

Crystal

Frequency:

50 MHz

Output:

LVPECL

Frequency Stability:

±25ppm

Operating Temperature:

-40°C ~ 85°C

Current - Supply (Max):

80mA

Mounting Type:

Surface Mount

Size / Dimension:

0.276" L x 0.197" W (7.00mm x 5.00mm)

Current - Supply (Disable) (Max):

-

Manufacturer:

Raltron Electronics

Product Status:

Active

Type:

XO (Standard)

Function:

Enable/Disable

Voltage - Supply:

2.5V

Absolute Pull Range (APR):

-

Spread Spectrum Bandwidth:

-

Ratings:

-

Package / Case:

6-SMD, No Lead

Height - Seated (Max):

0.063" (1.60mm)

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8542.39.0001

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99





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## LVPECL CLOCK OSCILLATOR

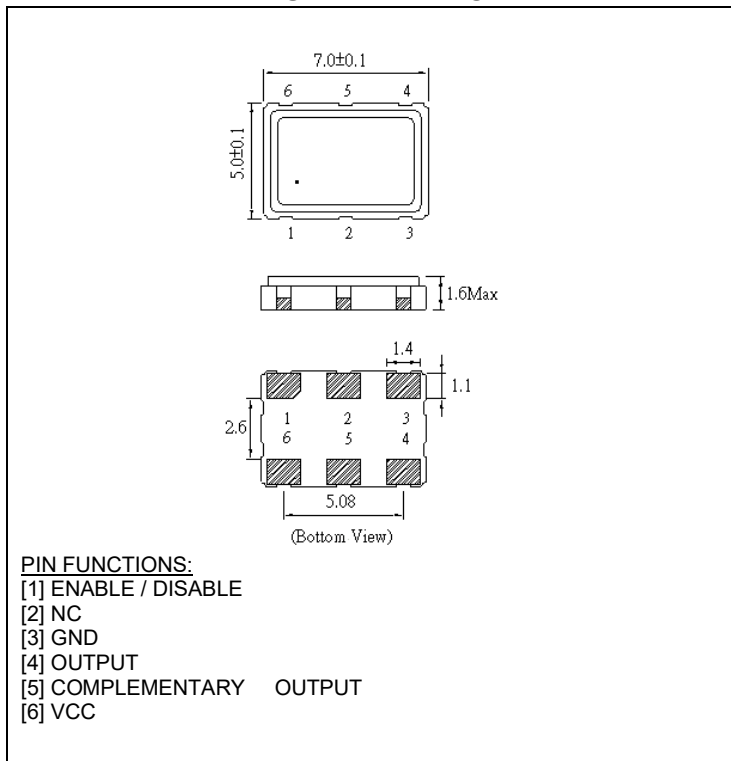
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## CP7050-50.000-2.5-25-X-T-TR

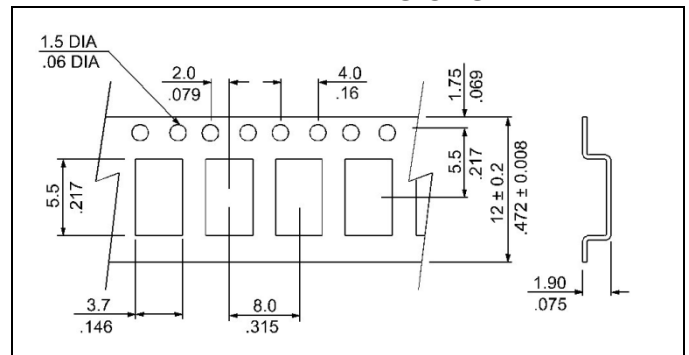
## ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency	$f_o$	$T_a=25^\circ\text{C}$	50.000	MHz
Supply Voltage	$V_{CC}$	$V_{CC} \pm 5\%$	2.5	VDC
Supply Current, max	$I_s$	$V_{CC}; T_a=+25^\circ\text{C};$	80	mA
Operating Temperature Range	$T_a$	---	-40 to +85	$^\circ\text{C}$
Storage Temperature Range	$T_{(stg)}$	Absolute max	-55 to +125	$^\circ\text{C}$
Output Logic Type	---		LVPECL	
Overall Freq. Stability, Max.	$\Delta f/f_o$	Inclusive of $25^\circ\text{C}$ Tolerance and Changes due to Operating Temperature	$\pm 25$	ppm
Output Voltage	$V_{OL}$	$V_{OL, \text{max}}$	$V_{CC} - 1.620$	VDC
	$V_{OH}$	$V_{OH, \text{min}}$	$V_{CC} - 1.025$	VDC
Output Load	---	Terminus to $V_{CC} - 2V$	50	$\Omega$
Enable / Disable Function	E/D	Pin 1: N.C. (Open) or High ( $0.7 \times V_{CC}$ )	Pin 4 & 5 – Oscillation (Enabled)	
		Pin 1: Low ( $0.3 \times V_{CC}$ )	Pin 4 & 5 – High Impedance (Disabled)	
Symmetry (Duty Cycle)	DC	@50% Vdd	45 to 55	%
Rise Time and Fall Time	$t_r / t_f$	@20% to 80% Vdd	1.0	ns
Jitter, RMS, max.	J	$1\sigma, 12\text{kHz} < F_j < 20\text{MHz}$	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



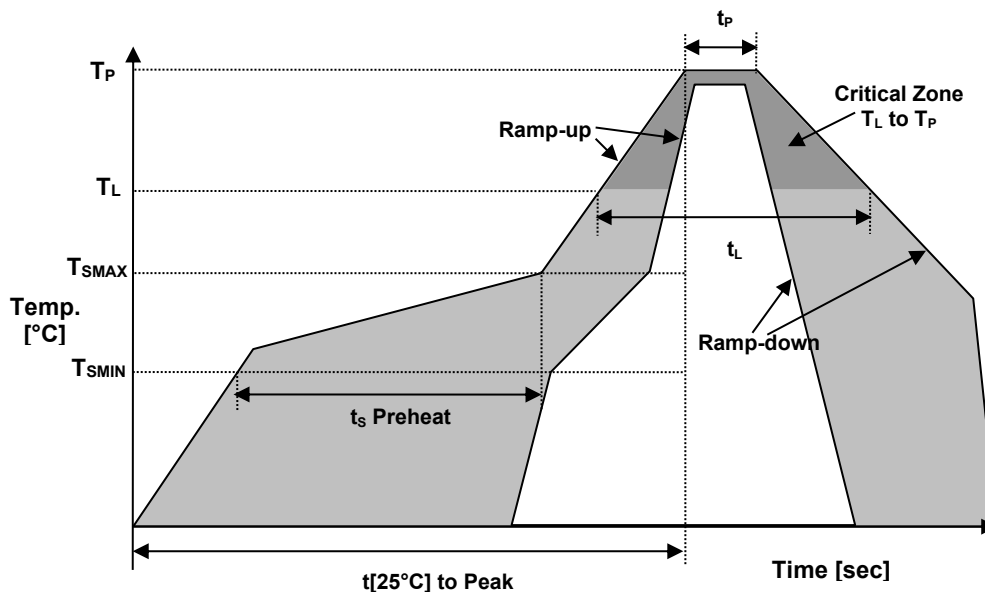
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## LVPECL CLOCK OSCILLATOR

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CP7050-50.000-2.5-25-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	$T_L$	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





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## LVPECL CLOCK OSCILLATOR

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**CP7050-50.000-2.5-25-X-T-TR**

### MARKING

Rx50.0  
•P2AEyw

x – Internal Production ID code (1 or 2 digits)

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	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



## OUR CERTIFICATE

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