

ELECTRICAL SPECIFICATION

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNIT
Nominal Frequency	f_o	$T_a=25^{\circ}\text{C}$	8.000	MHz
Supply voltage, nom.	V_{cc}	$V_{cc} \pm 10\%$	5	V
Supply current, max.	I_s	$V_{cc}=5.0\text{ VDC}; T_a=+25^{\circ}\text{C}; \text{Load}=15\text{ pF CMOS}$	30	mA
Operating temperature range	T_a	-	-40 to +85	$^{\circ}\text{C}$
Storage temperature range	$T(\text{stg})$	-	-55...+125	$^{\circ}\text{C}$
Frequency Stability	$\Delta f/f_o$	Inclusive of 25°C Tolerance and Changes due to Operating Temperature, Supply Voltage, Load, Aging, Shock and Vibration	± 100	ppm
Output Voltage Levels	V_{OL}	Logic "0" Level,	$10\% \times V_{cc}$	VDC
	V_{OH}	Logic "1" Level	$90\% \times V_{cc}$	
Output Load	---	1 to 10 TTL Output	--	--
Symmetry (Duty cycle)	DC	@ 50% of signal (V_{dd})	40...60	%
Rise time / Fall time, max.	t_r / t_f	20%~80% V_{out} , 80%~20% V_{out} ,	15	ns

MECHANICAL SPECIFICATION

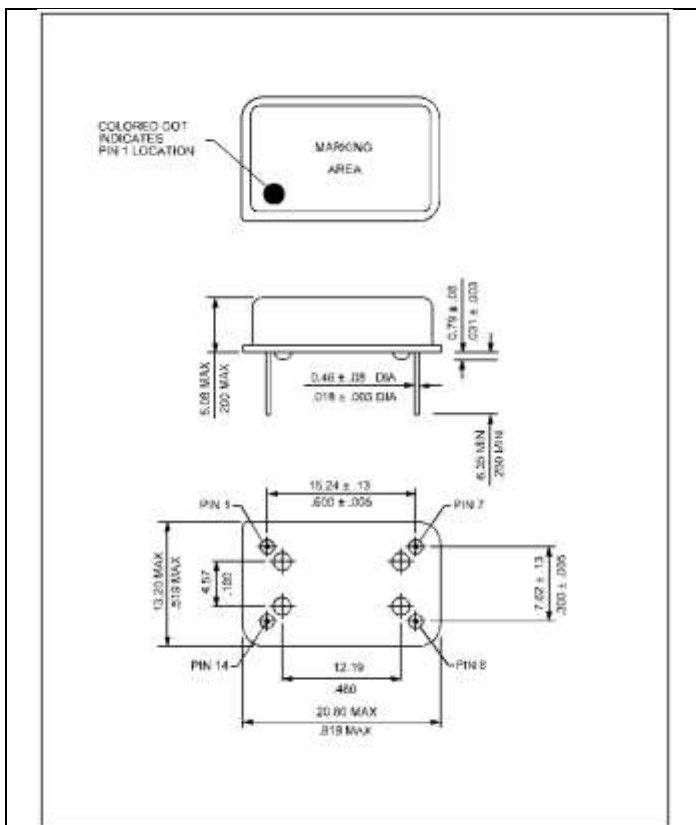
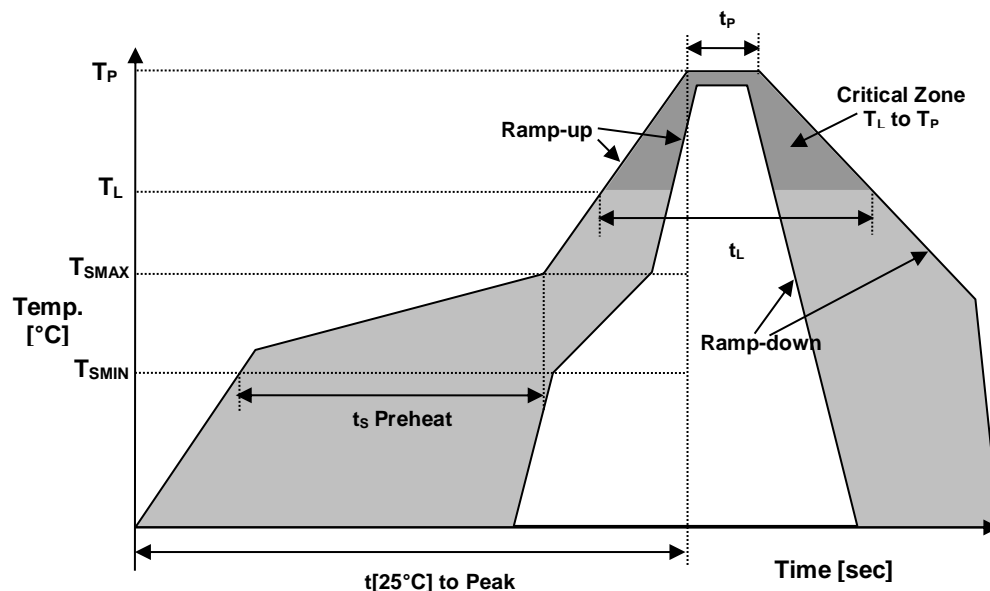


Photo is not actual part

PIN CONNECTION	
PIN	FUNCTION
1	<u>nc</u>
7	<u>Ground</u>
8	<u>Output</u>
14	<u>Vcc</u>

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 max.
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	Sn



MARKING

CO1100
8.000-EXT
•Rxxyyww

x – Internal Production ID code
y – Year code
w – Week code

YEAR CODE	
Year	Code
2011	1
2012	2
2013	3
2014	4
2015	5
2016	6
2017	7
2018	8
2019	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:	KJackson, February 26, 2020
APPROVED BY:	Jlvns, February 26, 2020
REVISION:	A, Initial Release

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