



1、 Electrical Parameters

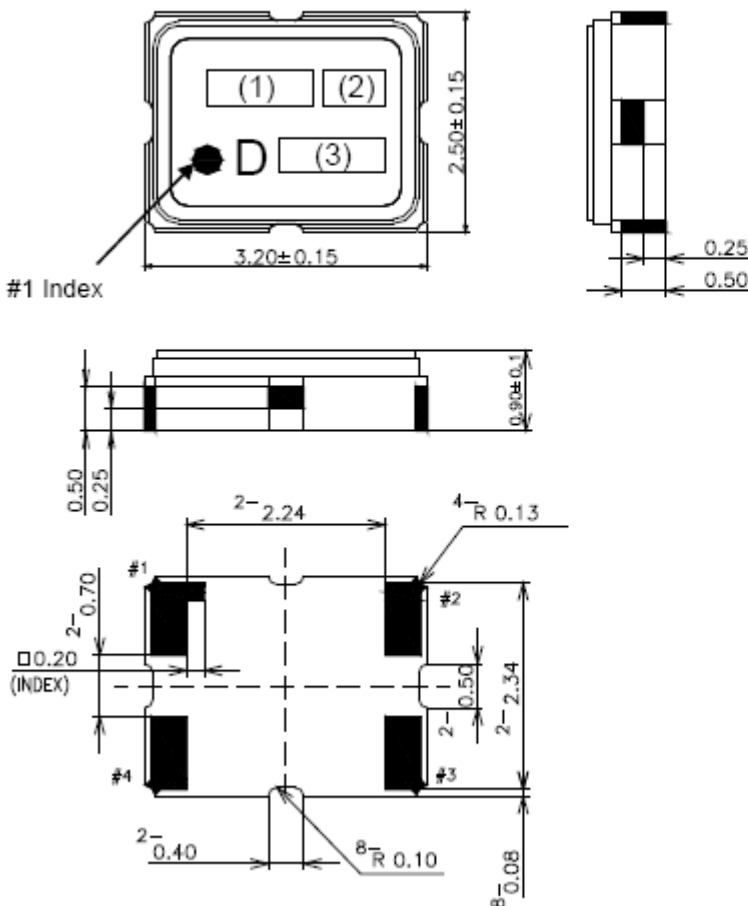
MODEL: D32-10.00MHz								
No	Parameters	SYM.	Electrical Spec.				Notes	
			Min.	Typ.	Max.	Units		
1	Nominal Frequency	FL	10.00			MHz	One frequency-division	
2	Supply Voltage	VDD	3.135	3.3	3.465	V		
3	Current consumption	-	-	-	1.5	mA		
4	Output Level	-	0.8	-	-	Vp-p		
5	Output Waveform	-	Clipped Sine wave			-		
6	Standard Output Load	-	1K Ω //5pF			-		
7	Frequency Stability	vs. Tolerance	-1.5	-	+1.5	$\times 10^{-6}$	After 2 times reflow	
8		vs. Temperature	-	-0.5	-	+0.5	$\times 10^{-6}$	TA=-30~+85 $^{\circ}$ C Ref. to Frequency (TA=+25 $^{\circ}$ C)
			-	-1.0	-	+1.0	$\times 10^{-6}$	TA=-40~+85 $^{\circ}$ C Ref. to Frequency (TA=+25 $^{\circ}$ C)
9		vs. Load	-	-0.2	-	+0.2	$\times 10^{-6}$	Load:1K Ω //5Pf , $\pm 10\%$ each
10		vs. Supply Voltage	-	-0.2	-	+0.2	$\times 10^{-6}$	+3.3 V +/-5%.
11	Operating Temperature Range	-	-40	~	+85	$^{\circ}$ C		
12	Storage Temperature	-	-40	~	+85	$^{\circ}$ C		
13	Start Up Time	-	-	-	2.0	ms	@90% of final Vout level	
14	Duty Cycle	-	40	~	60	%		
15	Aging	-	-1.0	-	+1.0	$\times 10^{-6}$ /year	TA=Room ambient	
16	Frequency Tuning Range	-	-15	-	-9	$\times 10^{-6}$	V _c = 0.5 V. measurement referenced to V _c =1.5V	
17		-	+9	-	+15	$\times 10^{-6}$	V _c =2.5V.measurement referenced to V _c =1.5V	
18	Linearity	-	-	-	10	%		
19	slope		Positive					
20	Input Impedance	-	500	-	-	K Ω		
21	Phase Noise	@ 10Hz Offset	-	-	-95	dBc/Hz		
22		@ 100Hz Offset	-	-	-115			
23		@ 1KHz Offset	-	-	-135			
24		@ 10KHz Offset	-	-	-145			
25		@ 100KHz Offset	-	-	-145			
26		@ 1MHz Offset	-	-	-150			



27	ESD Level	Human Body Model,class2: 2000V to 4000V; ANSI/ESDA/JEDEC JS-001-2010.
		Machine Model, class B: 200V to 400V; ANSI/ESDA/JEDEC JS-001-2010.
28	Moisture Sensitivity Level	Level 2.
29	Vibration	Test Condition: 0.75mm ;acceleration:10g;10Hz~2000Hz, one cycle per 30 min, test 2 hour. (3 times for each 3 directions X ,Y , Z) .IEC 68-2-06 Test Fc.
30	Shock	100g; 6ms; half sine wave (3 times for each 3 directions X ,Y , Z),IEC 68-2-27 Test Ea/Severity 50A.

2、 Mechanical Structure(mm)

Outline



Pin Connections

Pin No.	Connection
#1	V_{CONT}
#2	GND
#3	Output
#4	V_{CC}

Marking

(1) Frequency	10.00 (MHz, 4digits)
(2) Model code	AN
(3) Date code	Year (1digit) +Week (2digits) e.g.2017/01/01 → 701

unit: mm

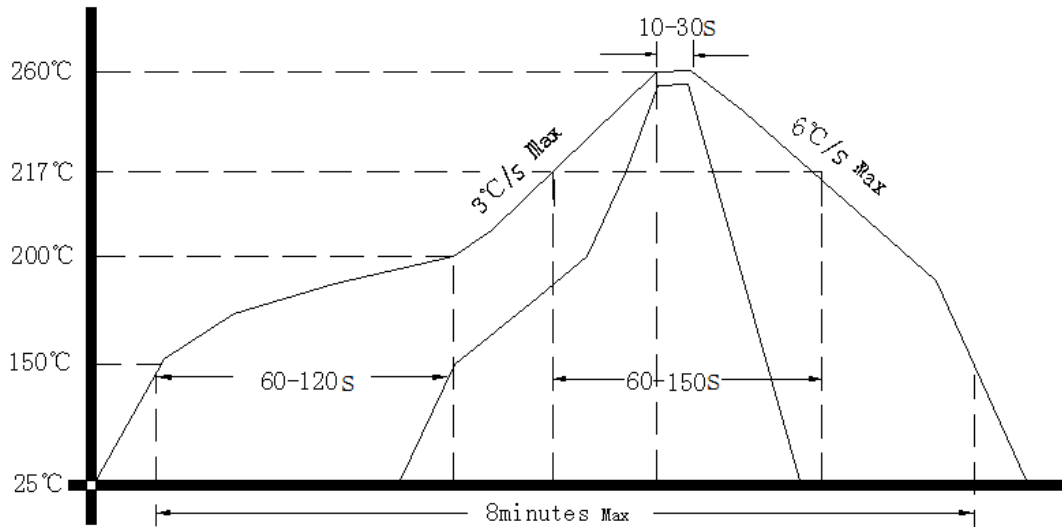
Dimensional Tolerance: ± 0.15

(Unless otherwise noted)

Note1: Tolerance ± 0.2 mm



3、 Reflow Soldering Curve (RoHS)



4、 Package: Tape & Reel (mm)

