

Travelling Merchant: \_\_\_\_\_

# DATASHEET

Standard: DP7Q16370004

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2013.06.27			

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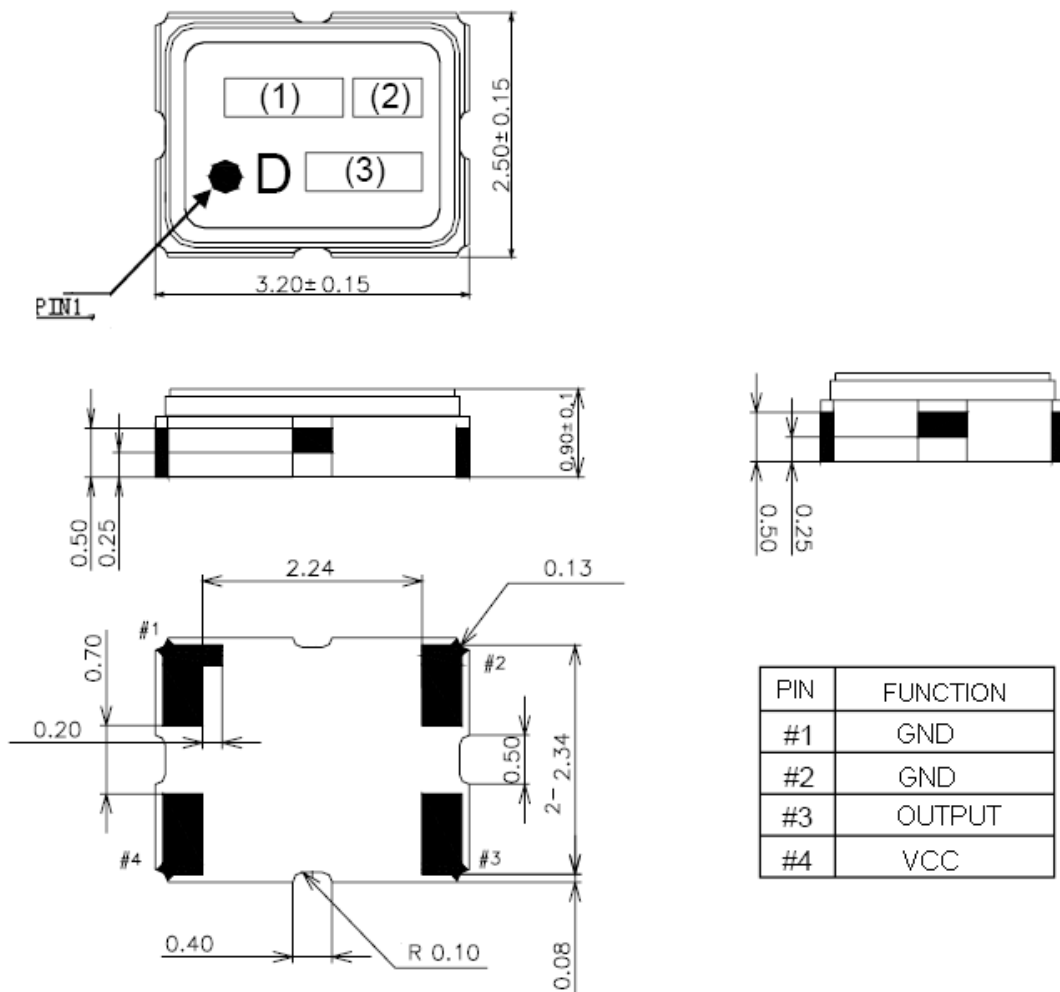
## 1、 Electrical Parameters

MODEL: DP7Q16370004								
No.	Parameters	SYM.	Electrical Spec.				Notes	
			Min.	Typ.	Max.	Units		
1	Nominal Frequency	FL	16.368			MHz		
2	Supply Voltage	VDD	2.66	2.8	2.94	V		
3	Output Type	-	Clipped Sine wave					
4	Current Consumption	-	-	-	1.5	mA	With standard output load.	
5	Output Level	-	0.8	-	-	Vp-p		
7	Standard Output Load	-	10kΩ // 10pF			-		
8	vs. Tolerance	-	-0.5	~	+0.5	$\times 10^{-6}$	Initial Tolerance (TA=+25°C)	
		-	-1.0	~	+1.0	$\times 10^{-6}$	After 2 times reflow(TA=+25°C)	
9	Frequency Stability	vs. Temperature	-	-0.5	-	+0.5	$\times 10^{-6}$	@-30°C to +85°C
10		vs. Slope	-	-0.1	-	+0.1	$\times 10^{-6}/^{\circ}\text{C}$	@-30°C to +85°C
11		vs. Load	-	-0.1	-	+0.1	$\times 10^{-6}$	10kΩ //10pF $\pm 10\%$ each
12		vs. Supply Voltage	-	-0.1	-	+0.1	$\times 10^{-6}$	Vcc=+2.8V $\pm 5\%$
13	Operating Temperature Range	-	-30	~	+85	°C		
14	Storage Temperature	-	-40	~	+85	°C		
15	Reflow frequency drift		-1.0	~	+1.0	$\times 10^{-6}$	1hour after two reflow cycle	
16	Duty Cycle	-	40	~	60	%		
17	Short term Stability	-			1.0	$\times 10^{-9}$	Tau=1s	
18	Aging	-	-1.0	~	+1.0	$\times 10^{-6}$	PER YEAR	
19	Start- up time		-	-	2.0	ms	@90% of final Vout level	
20	Phase Noise	@1Hz offset	-	-	-	-54	dBc/Hz	
21		@ 10Hz offset	-	-	-	-85		
22		@ 100Hz offset	-	-	-	-110		
23		@ 1kHz offset	-	-	-	-130		
24		@ 10kHz offset	-	-	-	-140		
25	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.						



26	Moisture Sensitivity Level	Level 2.
27	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.
28	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)

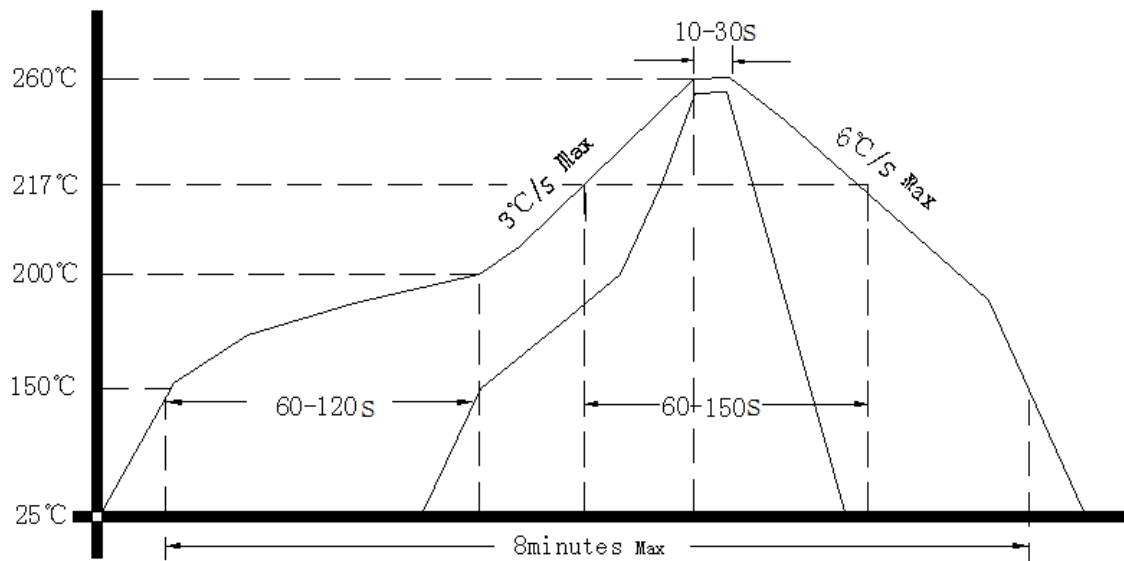


**Note1:** Tolerance ±0.2mm

**Note2:** Marking: (1) Frequency 16.36(MHz,4digits)  
(2) Modle code T  
(3) Date code Year(1digit) +Week(2digits)  
e.g.2009/1/1 → 901



### 3、 Reflow Soldering Curve (RoHS)



### 4、 Package: Tape & Reel (mm)

