

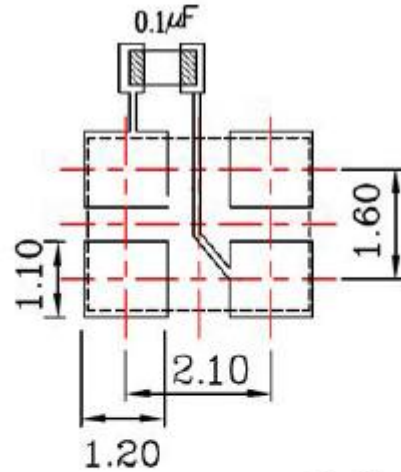
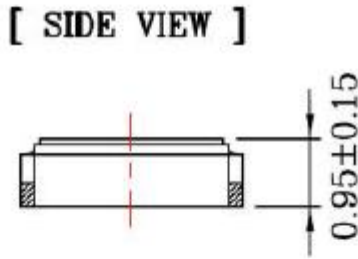
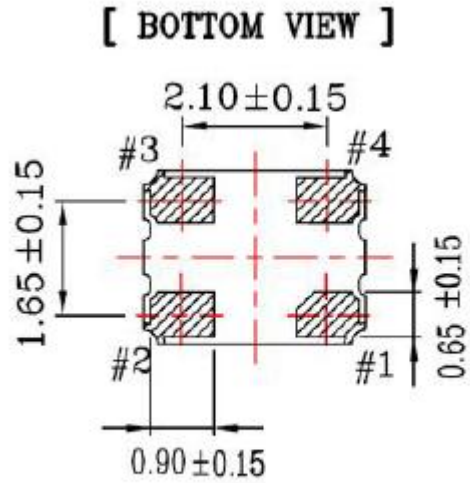
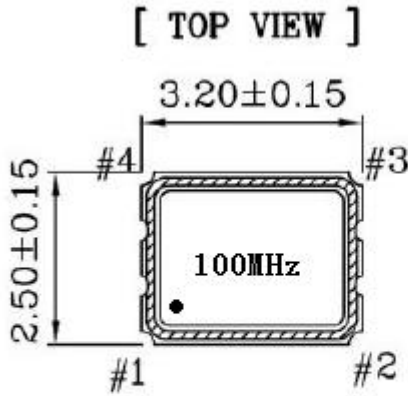


1、Electrical Parameters

MODEL: DP7X1000009							
No.	Parameters	SYM.	Electrical Spec.				Notes
			Min.	Typ.	Max.	Units	
1	Nominal Frequency	FL	100.00			MHz	
2	Output Waveform		CMOS				
3	Frequency Stability(Over all)	-	-25		+25	$\times 10^{-6}$	Frequency stability includes frequency tolerance@25°C and frequency stability vs. operating temperature range.
4	Operating Temperature	Topr	-40	~	+85	°C	The operating temperature range over which the frequency stability is measured.
5	Storage Temperature	Tstg	-55	~	+125	°C	
6	Supply Voltage		2.97	3.3	3.63	V	
7	Current		-	-	25	mA	At maximum supply voltage
8	Output Load	CL			15	pF	
9	Period Jitter(pk-pk)	-			40	pS	
10	Output Voltage High	VoH	2.97	-	-	V	
11	Output Voltage Low	Vol	-	-	0.33	V	
12	Output Symmetry	-	45	50	55	%	
13	Rise Time	Tr	-	-	3	ns	
14	Fall Time	Tf	-	-	3	ns	
15	Start-up Time	Tosc	-	-	2	ms	
16	Enable Control	-	Yes			-	Pin 1
17	Output Enable	V _{HI}	2.31 or Floating			V	
18	Output Disable	V _{LO}			0.99	V	
19	Vibration Test	MIL-STD-883 2007 Condition A			10~2000Hz, 1.52mm, 20g, each axis for 4 hrs		
		JESD22-B103 Condition 1					
20	Thermal Shock	MIL-STD-883 1010 Condition B			-55°C, 125°C; soak time is 10 mins, with total 200 cycles		
		JESD22-A104 Condition B					
21	Mechanical Shock	MIL-STD-883 2002 Condition B			1500g half-sine, 0.5ms, each axis for 3 times.		
		JESD22-B104 Condition B					



2、Mechanical Structure(mm)

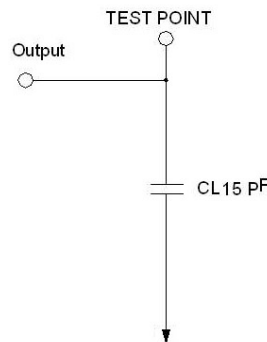


Pin	Function
#1	Tri-State
#2	GND
#3	Output
#4	V _{DD}

Unit:mm

☆ To ensure optimal oscillator performance, Place a by-pass capacitor of 0.1µF as close to the part as possible between V_{DD} and GND pads.

3、Test Circuit

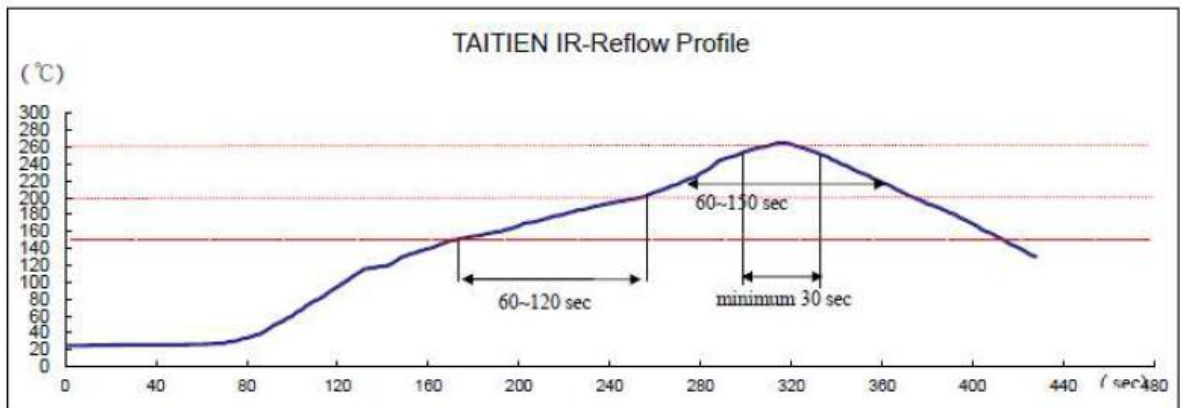




4、 Recommended IR Reflow Profile

➤ IR REFLOW PROFILE OF CERAMIC SMD PRODUCTS FOR Pb FREE PROCESS

TAITIEN ELECTRONICS CO., LTD.



Reference Standard: JEDEC-STD 020

Test conditions: Pre-heating : 150°C to 200°C , 60~120secs.

Heating : 217°C , 60~150sec.

Peak temperature at least : 260°C , The time above 255 °C : minimum 30sec.

5、 Package: Tape & Reel (mm)

