

Customer Code : _____

DATASHEET

DAPU P/N: DP7W11428501-C8

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2019.01.21			

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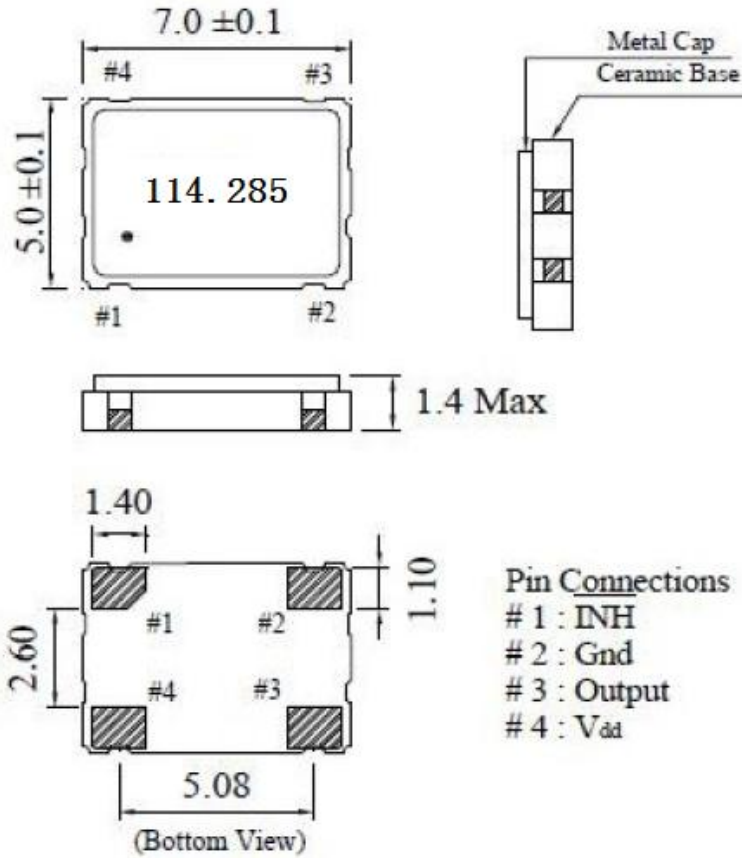


1、Electrical Parameters

MODEL: DP7W11428501-C8							
No.	Parameters	SYM.	Electrical Spec.				Notes
			Min.	Typ.	Max.	Units	
1	Nominal Frequency	FL	114.285			MHz	
2	Output Waveform		CMOS				
3	Frequency Stability		-50		+50	$\times 10^{-6}$	-40~85℃
4	Operating Temperature	Topr	-40		+85	℃	
5	Storage Temperature	Tstg	-55		+125	℃	
6	Supply Voltage	VDD	2.375	2.5	2.625	V	
7	Current	Icc			30	mA	At maximum supply voltage
8	Output Load		15			pF	
9	Aging	-	-3	-	+3	$\times 10^{-6}/\text{yr.}$	1st. Year at 25℃
10	Output Voltage High	VoH	0.8Vdd	-	-	V	
11	Output Voltage Low	Vol	-	-	0.2Vdd	V	
12	Duty Cycle	-	40	50	60	%	
13	Rise Time	Tr	-	-	3.0	ns	
14	Fall Time	Tf	-	-	3.0	ns	



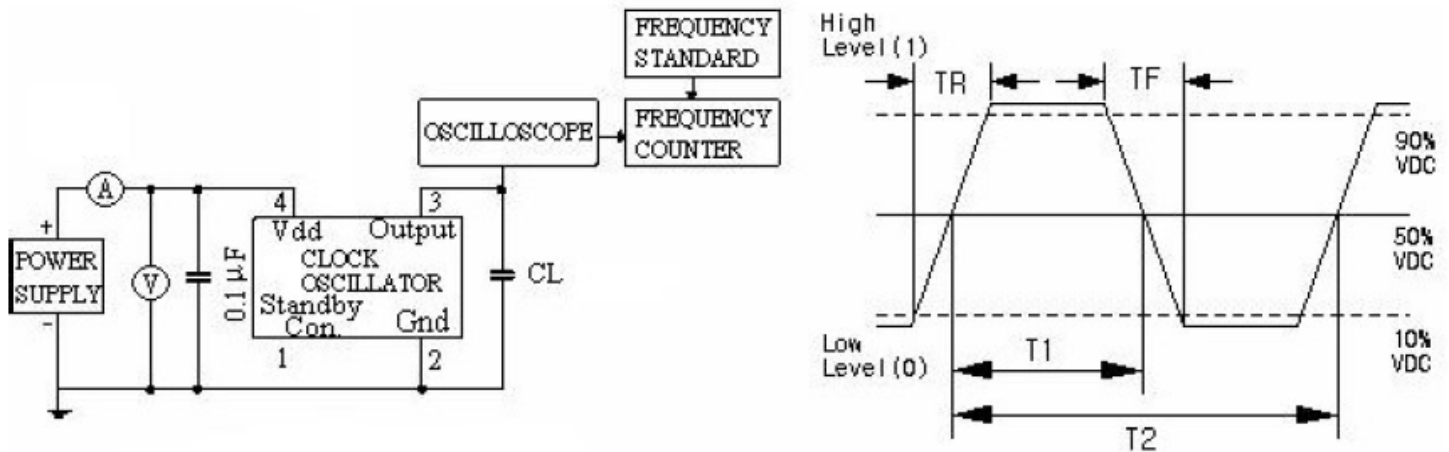
2、Mechanical Structure(mm)



INH Function	
#1	#3(Output)
Open	Active
"H"Level	Active
"L"Level	High Z(Oscillation Stopped)

Note1:Tolerance ± 0.2mm without mark

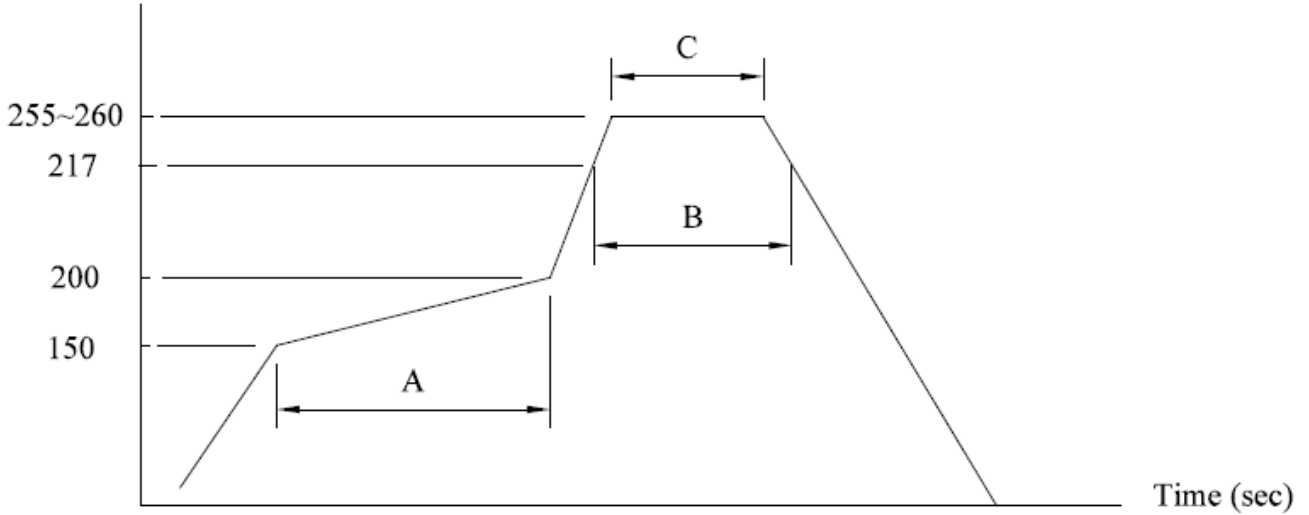
3、Test Circuit





4、Slodering Reflow

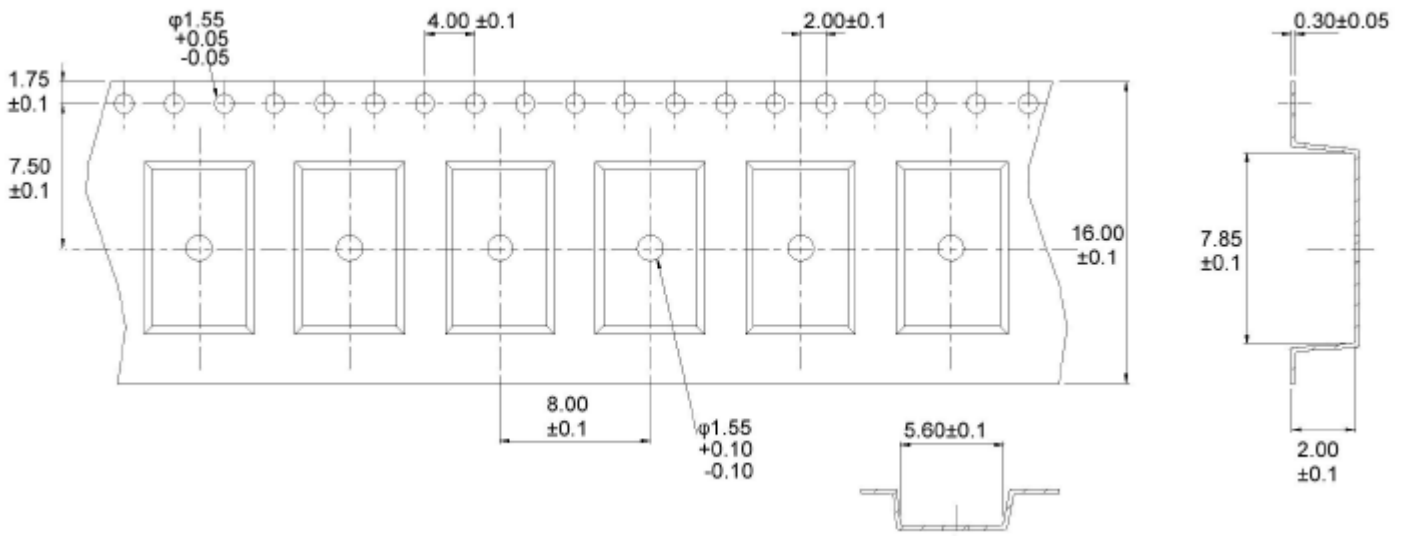
Temp. (deg.C)



- (A)→Preheating area : 150~200°C, 60~120sec.
- (B)→Heating area : 217°C, 60~150sec.
- (C)→Peak temperature : 255~260°C, 30sec. Max.
- Ramp-up rate (217→260°C) : 3°C/sec. Max.
- Ramp-down rate (260→217°C) : 6°C/sec. Max.
- Time 25°C→260°C : 480sec. Max.

*Referance JEDEC J-STD-020

6、Package: Tape & Reel (mm)





7、 Reliability Test

Test Items	Test Condition	Specification	
		General OSC (Note:1)(Note:3)	General X'tal (Note:2)
1. Gross Leak Test	Electronic test fluid 125°C/30sec	No continuous bubble	
2. Fine Leak Test	Bombing of He 4.5kg/cm ² for 1.5 hours	Less than 1*10 ⁻⁸ atm.c.c./sec, Helium	
3. Drop Test	a ~19.999MHz(Fund.) →75 cm height b. 20~29.999MHz(Fund.) →50 cm height c. 30~ MHz(Fund.) →20 cm height on hard wooden surface / 3 times (thickness more than 30 mm)	$\Delta F \leq \pm 10\text{PPM}$, Duty within spec.	$\Delta F \leq \pm 10\text{PPM}$, $\Delta C.I. \leq \pm 10\text{ohms}$
4. Vibration Test	Freq. range: 10~55Hz Peak to peak amplitude:1.5mm 3 direction(X,Y,Z) · each 60min. Vibration protected 28G	$\Delta F \leq \pm 10\text{PPM}$, Duty within spec.	$\Delta F \leq \pm 10\text{PPM}$, $\Delta C.I. \leq \pm 10\text{ohms}$
5. Shearing Test	Weight : 5N, Test duration : 10±1 sec	$\Delta F \leq \pm 10\text{PPM}$, Duty within spec.	$\Delta F \leq \pm 10\text{PPM}$, $\Delta C.I. \leq \pm 10\text{ohms}$
6. Substrate Bending Test	Test duration : 5±1 sec Amount of substrate : 3mm	$\Delta F \leq \pm 10\text{PPM}$, Duty within spec.	$\Delta F \leq \pm 10\text{PPM}$, $\Delta C.I. \leq \pm 10\text{ohms}$
7. Resistance to Soldering Test	IR Reflow furnace with the condition 2 times. Peak temp.260±3°C · 10sec(Min.)	$\Delta F \leq \pm 10\text{PPM}$, Duty within spec.	$\Delta F \leq \pm 10\text{PPM}$, $\Delta C.I. \leq \pm 10\text{ohms}$
8. Low Temp. Exposure Test	-40±3°C, 240±12 hrs	$\Delta F \leq \pm 10\text{PPM}$, Duty within spec.	$\Delta F \leq \pm 10\text{PPM}$, $\Delta C.I. \leq \pm 10\text{ohms}$
9. Aging Test	125±3°C, 240±12hrs	$\Delta F \leq \pm 10\text{PPM}$, Duty within spec.	$\Delta F \leq \pm 10\text{PPM}$, $\Delta C.I. \leq \pm 10\text{ohms}$
10. High Temp. & Humidity Test	+85°C±5°C & 85%±5% R.H. , 240±12 hrs	$\Delta F \leq \pm 10\text{PPM}$, Duty within spec.	$\Delta F \leq \pm 10\text{PPM}$, $\Delta C.I. \leq \pm 10\text{ohms}$
11. Temperature Cycling Test	-40±3°C/15±3min ~ +85±3°C/15±3min 15cycles	$\Delta F \leq \pm 10\text{PPM}$, Duty within spec.	$\Delta F \leq \pm 10\text{PPM}$, $\Delta C.I. \leq \pm 10\text{ohms}$

Note:1 → For communication application the spec. demanded " $\Delta F \leq \pm 5\text{ PPM}$. Duty within spec."

Note:2 → For communication application the spec. demanded " $\Delta F \leq \pm 5\text{ PPM}$. $\Delta C.I. \leq \pm 5\text{ ohms}$ "

Note:3 → For TCXO series products demanded " $\Delta F \leq \pm 2\text{PPM}$.Duty(Vpp) within spec."