

**Customer Code:** \_\_\_\_\_

# DATASHEET

**DAPU P/N:** T3225C-B0A9CD-8.00MHz-N0

DAPU			Customer Approval
Drew	Audited	Approved	Stamp, please! Thanks!
Jieshu ZHENG	Jianhua LIN	Gangtao FENG	
Date:	2025/2/24		

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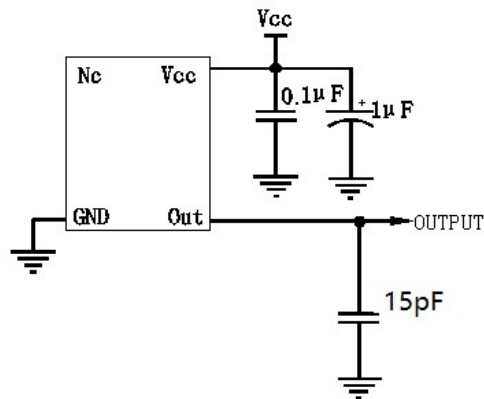


### 1. Electrical Parameter

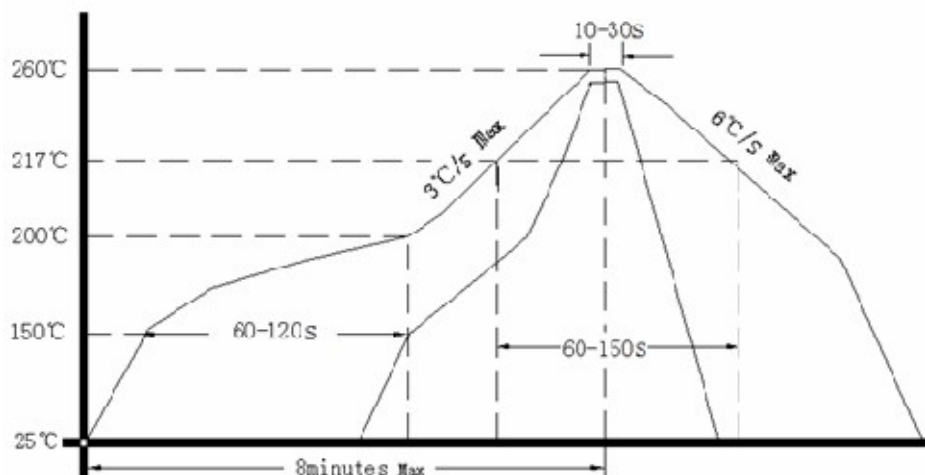
MODEL:		T3225C-B0A9CD-8.00MHZ-N0				
No.	Description	Parameters			Units	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	8.000			MHz	
	Output Waveform	CMOS			-	
	High Level	0.9V <sub>DD</sub>			V	
	Low Level			0.1V <sub>DD</sub>	V	
	Rise & Fall Time			5	ns	10% V <sub>DD</sub> to 90% V <sub>DD</sub>
	Symmetry	45		55	%	
	Load	15pF			-	
Frequency Stabilities	Frequency Tolerance	-1.5		1.5	×10 <sup>-6</sup>	@25±2°C, 2h, after 2 times reflow soldering, base on nominal frequency.
	vs. Temperature	-0.5		0.5	×10 <sup>-6</sup>	T <sub>A</sub> varied from -40°C to 85°C, measurement referenced to frequency observed with f <sub>ref</sub> =(f <sub>max</sub> +f <sub>min</sub> )/2, V <sub>CC</sub> =3.3V, O <sub>load</sub> =15pF, temperature variable speed less than 2°C per minute.
	vs. Supply Voltage	-0.2		0.2	×10 <sup>-6</sup>	measurement referenced to frequency observed T <sub>A</sub> =25°C, V <sub>cc</sub> =3.3±5%, and O <sub>Load</sub> =15pF.
	vs. Load	-0.2		0.2	×10 <sup>-6</sup>	10% load change measurement referenced to frequency observed with T <sub>A</sub> =25°C, V <sub>cc</sub> =3.3V, and O <sub>Load</sub> =15pF.
	Aging Tolerance 1 Year	-1		1	×10 <sup>-6</sup>	T <sub>A</sub> =25°C, V <sub>cc</sub> =3.3V, and after 1h of operation.
Power Supply	Current consumption			3	mA	@25°C, V <sub>cc</sub> =3.3V, O <sub>Load</sub> =15pF.
	Start up Time			2	ms	More than 90% of final output voltage.
	Supply Voltage	1.71	3.30	3.63	V	
SSB Phase Noise	Phase Noise@25±2°C			-80	dBc/Hz	10Hz
				-111		100Hz
				-135		1KHz
				-145		10KHz
				-153		100KHz
				-155		1MHz

Environmental Conditions	Operable Temperature	-40		85	°C	
	Storage Temperature	-55		105	°C	
	ESD Level	Human Body Model, class 2: 2000V to 4000V; ANSI/ESDA/JEDEC JS-001-2010.				
		Machine Model, class B: 200V to 400V; JEDEC JESD22-A115C.				
	Moisture Sensitivity Level	Level 1.				
	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.				
Shock	100g; 6ms; half sine wave (3 times for each 3 direction s X ,Y, Z ), IEC 68-2-27 Test Ea/Severity 50A.					
Full Package Storage	Relative humidity (%)	20%~70%				
	Temperature (°C)	-10~35°C				

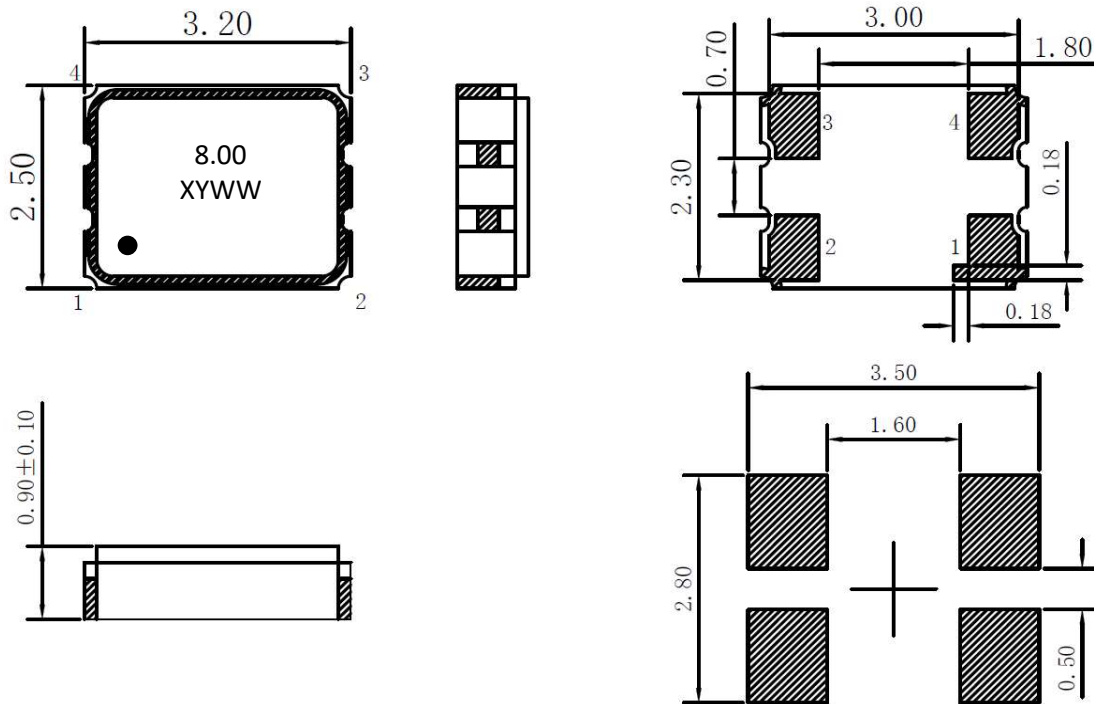
## 2. Test Circuit



## 3. Reflow Soldering Curve (RoHS)



### 4. Mechanical Structure(mm)

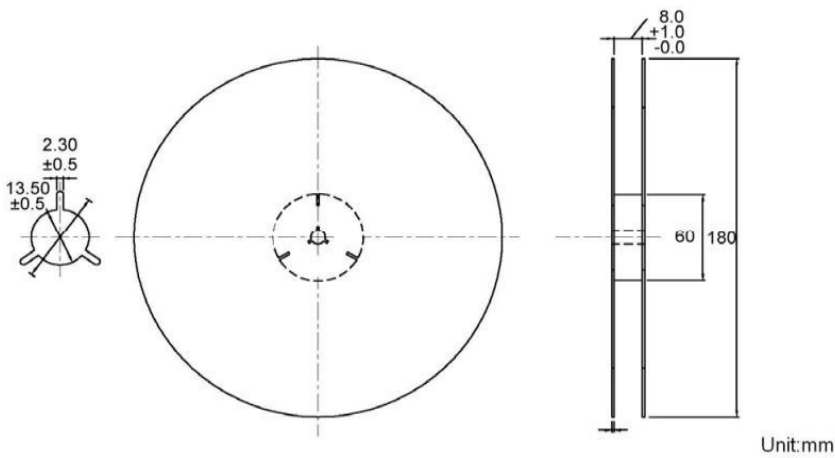
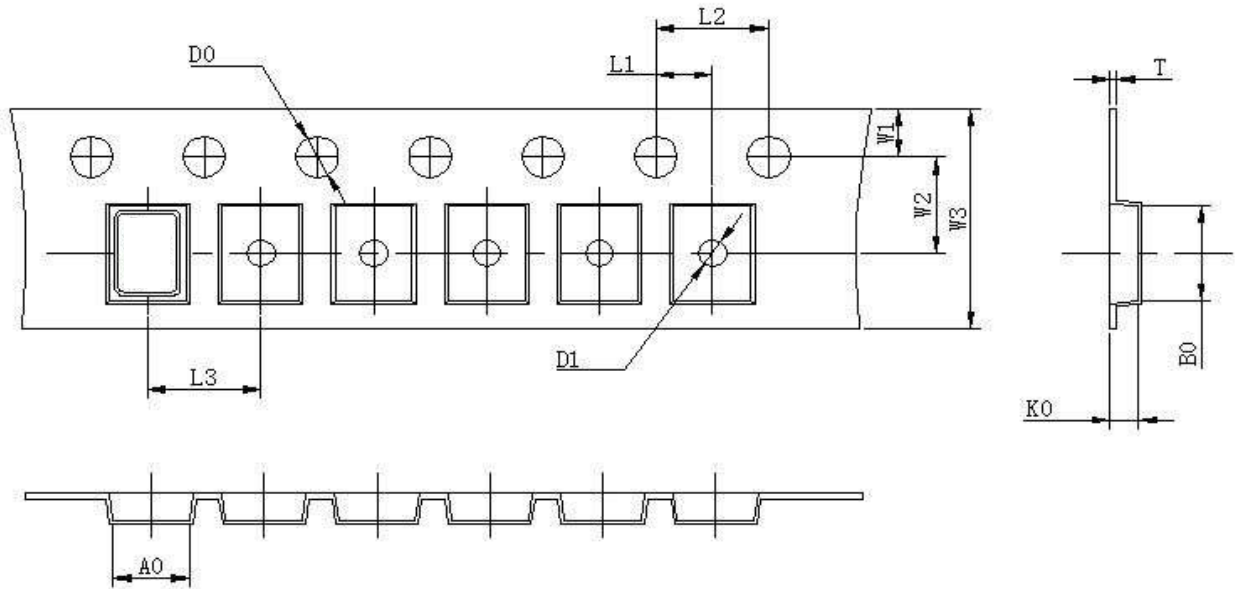


PIN NAME	CONNECTION
PIN1	NC (Floating)
PIN2	GND
PIN3	OUTPUT
PIN4	VCC

### 5. Marking Information

8.00:	Frequency 8.00MHz
X:	Internal code.
Y:	Year
WW:	Week
● :	Pin1 Index

## 6. Packing Information



L1	2.00 ± 0.1
L2	4.00 ± 0.1
L3	4.00 ± 0.1
D0	1.55 ± 0.05
D1	1.20 ± 0.5
W1	1.75 ± 0.1
W2	3.50 ± 0.1
W3	8.00 ± 0.2
A0	2.7 ± 0.1
B0	3.4 ± 0.1
K0	1.40 ± 0.1
T	0.25 ± 0.05