

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

# DATASHEET

DAPU P/N: **T32-F567-10.00MHz**  
**(X3225YF10002A)**

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DAPU			Customer Approval
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2016.02.16			

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## 1. Electrical Parameters

MODEL: T32-F567-10.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	10.00			MHz	
	Output Waveform	Clipped Sine Wave				
	Vp-p	0.8			V	
	Symmetry	40		60	%	
	Load	10KΩ//10pF				
	Start Up			2.0	ms	@90% of final Vout level
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.5		+0.5	$\times 10^{-6}$	T <sub>A</sub> varied from -40°C to 85°C, referenced to frequency(T <sub>A</sub> =25°C).
	Initial Frequency Tolerance	-1.5		+1.5	$\times 10^{-6}$	T <sub>A</sub> =25°C, after 2 times reflow, referenced to nominal frequency.(Leave after reflow more than 2 hours at room ambient)
	Frequency Tolerance vs. Supply Voltage	-0.2		+0.2	$\times 10^{-6}$	measurement referenced to frequency observed T <sub>A</sub> =25°C, V <sub>cc</sub> varied from 2.85V to 3.15V, and O <sub>Load</sub> =10KΩ//10pF.
	Frequency Tolerance vs. Load	-0.2		+0.2	$\times 10^{-6}$	10% load change measurement referenced to frequency observed with T <sub>A</sub> =25°C, V <sub>cc</sub> =3.0V, and O <sub>Load</sub> =10KΩ//10pF.
	Aging Tolerance 1Year	-1		+1	$\times 10^{-6}$	T <sub>A</sub> =Room ambient
Power Supply	Operating Current			1.5	mA	
	Supply Voltage	2.85	3.0	3.15	V	
Voltage Control	Frequency Tuning Range	-15		-9	$\times 10^{-6}$	V <sub>c</sub> = 0.5 V. measurement referenced to V <sub>c</sub> =1.5V
		+9		+15	$\times 10^{-6}$	V <sub>c</sub> = 2.5 V. measurement referenced to V <sub>c</sub> =1.5V
	Slope	Positive				
	Input Impedance	500			KΩ	
Phase Noise	Phase Noise			-135	dBc/Hz	1KHz

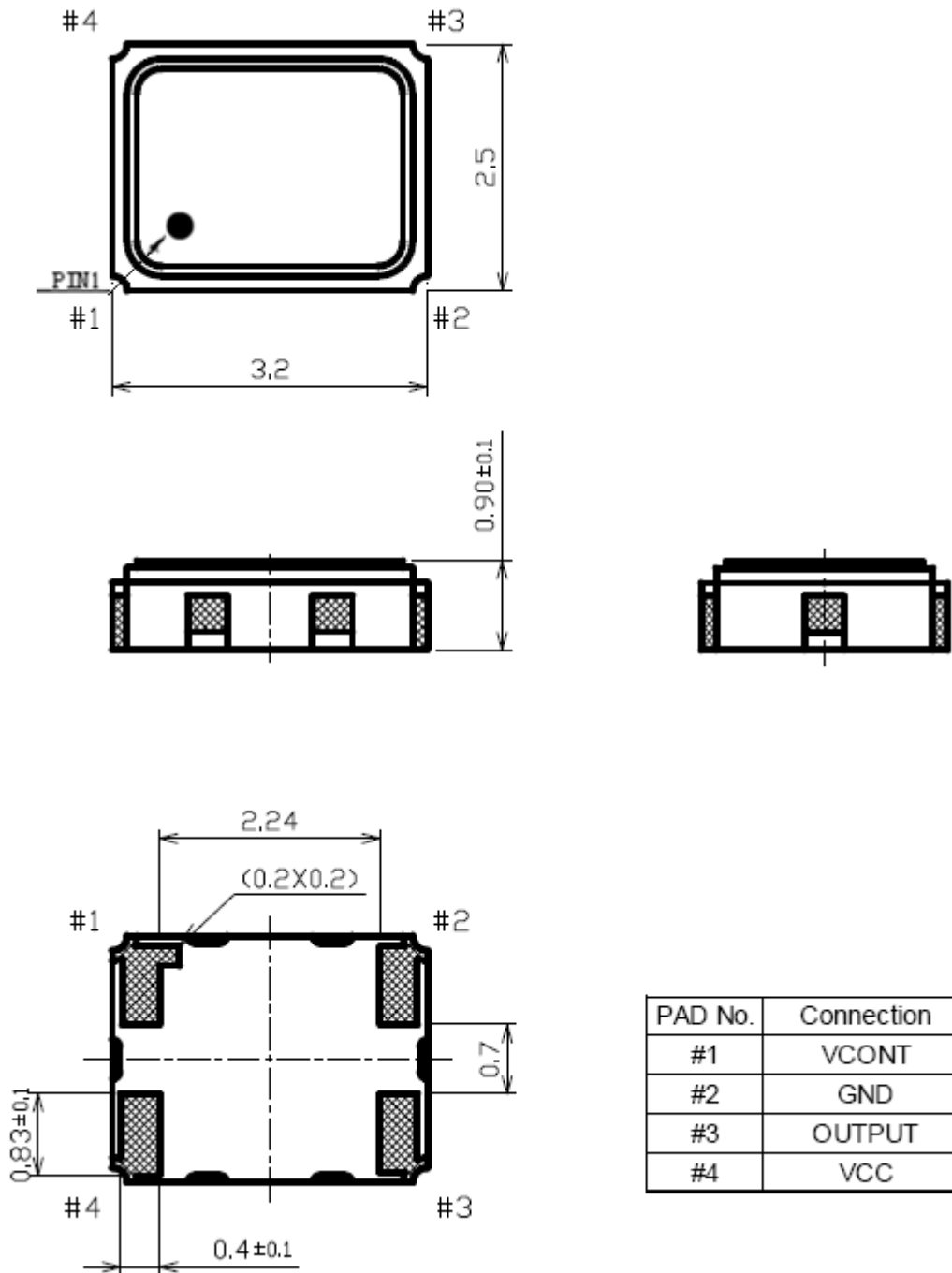


Environmental Conditions	Operable Temperature	-40		+85	°C	
	Storage Temperature	-40		+85	°C	
	ESD Level	Human Body Model,class2: 2000V to 4000V; ANSI/ESDA/JEDEC JS-001-2010.				
		Machine Model, class B: 200V to 400V; ANSI/ESDA/JEDEC JS-001-2010.				
	Moisture Sensitivity Level	Level 2.				
	Vibration	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 directions X ,Y , Z ),IEC 68-2-27 Test Ea/Severity 50A.					
Full Package Storage	Relative humidity (%)	20% ~70%				
	Temperature (°C)	-10~35°C				

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## 2. Mechanical Structure(mm)



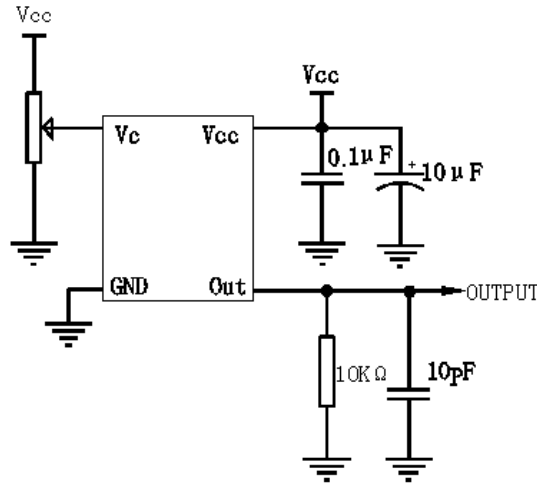
PAD No.	Connection
#1	VCONT
#2	GND
#3	OUTPUT
#4	VCC

**Note1:** Tolerance  $\pm 0.20\text{mm}$  without mark

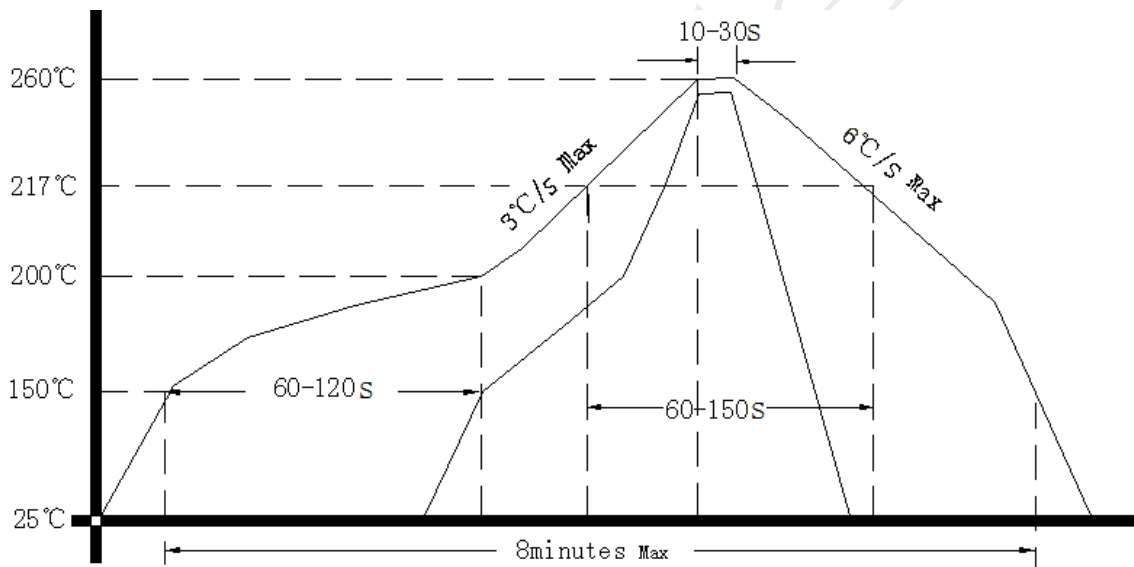
**Note2:** Referential Weight 0.03g



### 3. Test Circuit



### 4. Reflow Soldering Curve (RoHS)



Note: If soldering with a hot air gun, ensure the temperature < 320°C , soldering time < 15 seconds.

### 5. Package: Tape & Reel (mm)

