

CUSTOMER: \_\_\_\_\_

# DATASHEET

PRODUCT TYPE: \_\_\_\_\_ DPTC2016 \_\_\_\_\_

DAPU P/N: T2016C-F5A9-26.00MHz

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Jianhua LIN	William	Allen	
Date: 2023.05.19			

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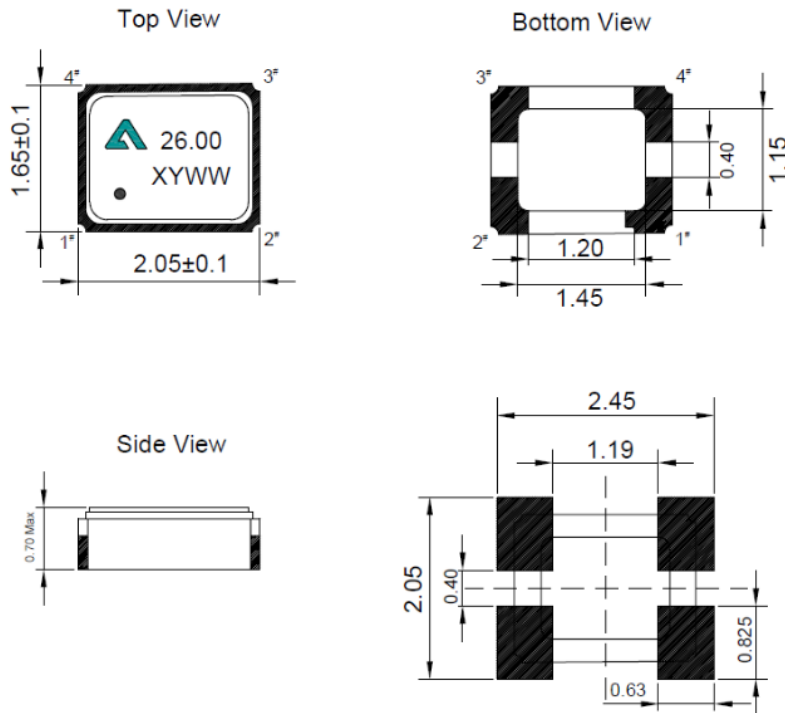
## 1. Electrical Parameters

MODEL: T2016C-A5A9-26.00MHz						
Item	Parameters	Specifications				Test Condition
		Min.	Typ.	Max.	Unit	
Output	Nominal Frequency	26			MHz	
	Output Waveform	Clipped Sine Wave				
	Output Level	0.8			Vp-p	
	Spurious Suppression			-8	dBc	
	Output Load	10KΩ//10pF				
Frequency Stabilities	Frequency Tolerance	-1.5		1.5	ppm	@25±2°C, after 2 times reflow soldering, Ref. to nominal frequency
	vs. Temperature	-0.5		0.5	ppm	T <sub>A</sub> = -40°C ~ 85°C, VCC=3.3V, Ref. to f = (fmax-fmin)/2
	vs. Supply Voltage	-0.1		0.1	ppm	VCC = 3.3V ± 5% @ TA=25°C
	vs. Load	-0.1		0.1	ppm	Load = (10KΩ//10pF) ± 10%, VCC=3.3V @ TA=25°C
	Aging Tolerance 1Year	-1		1	ppm	@T <sub>A</sub> =25°C, Vcc=3.3V
	Aging Tolerance 2Year	-2		+2	ppm	
	Aging Tolerance 10Year	-4		+4	ppm	
	Frequency Slope	-0.1		+0.1	ppm/°C	T <sub>A</sub> varied from -40°C to 85°C
	G-Sensitivity Random			1.5	ppb/g	vibration 30Hz to 1.5kHz,3 axes
Power Supply	Current consumption			2	mA	@TA=25°C, VCC=3.3V, Load=10KΩ//10pF.
	Start up Time			2	ms	More than 90% of final output voltage
	Supply Voltage	1.7	3.3	3.6	V	
SSB Phase Noise	Phase Noise@25 ± 2°C		-55	-51	dBc/Hz	1Hz
			-90	-88		10Hz
			-118	-116		100Hz
			-144	-138		1KHz
			-155	-148		10KHz
			-158	-152		100KHz
			-159	-153		1MHz
Environmental	Operable	-40		85	°C	



Conditions	Temperature						
	Storage Temperature	-55		105	°C		
	Shock	-0.5		+0.5	×10 <sup>-6</sup>	Frequency shift after 1000G 250 us sine	
	ESD Level	Human Body Model,class2: 3000V; ANSI/ESDA/JEDEC JS-001-2010.					
		Machine Model, class B: 200V; 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 directions X , Y , Z ),IEC 68-2-27 Test Ea/Severity 50A.						
Full Package Storage	Relative humidity (%)	20%~70%					
	Temperature (°C)	-10~35°C					

**2. Mechanical Structure(mm)**



Recommended Land Pattern

PIN NAME	CONNECTION
PIN1	NC
PIN2	GND
PIN3	OUTPUT
PIN4	VCC

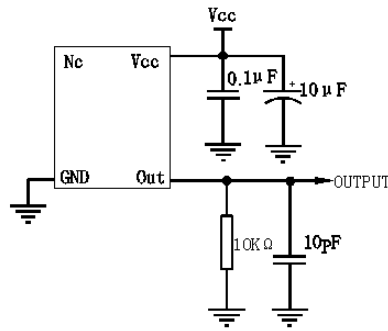


Note1: N/C is not connected

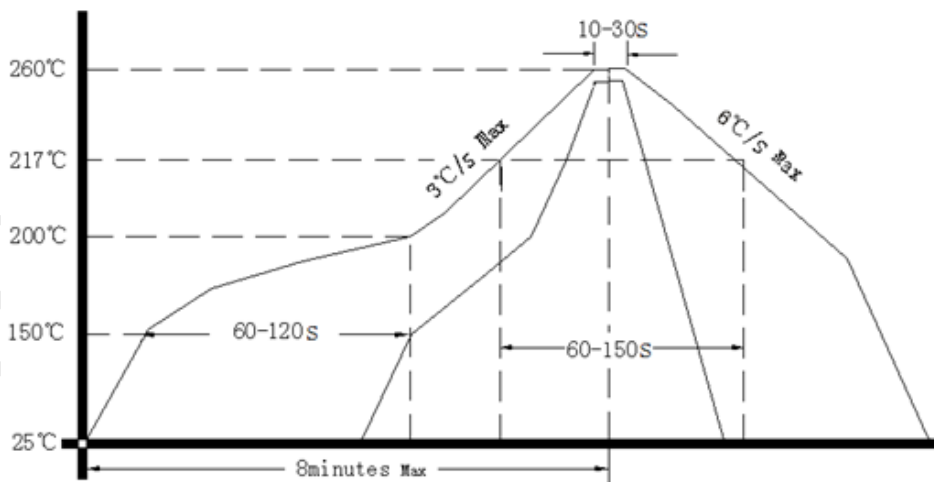
### 3. Marking Information

<p><b>26.00: Frequency 26.00Mhz</b>  <b>X: Lot No.</b>  <b>Y: Year</b>  <b>WW: Week</b>  <b>● : Pin1 Index</b></p>	
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### 4. Test Circuit



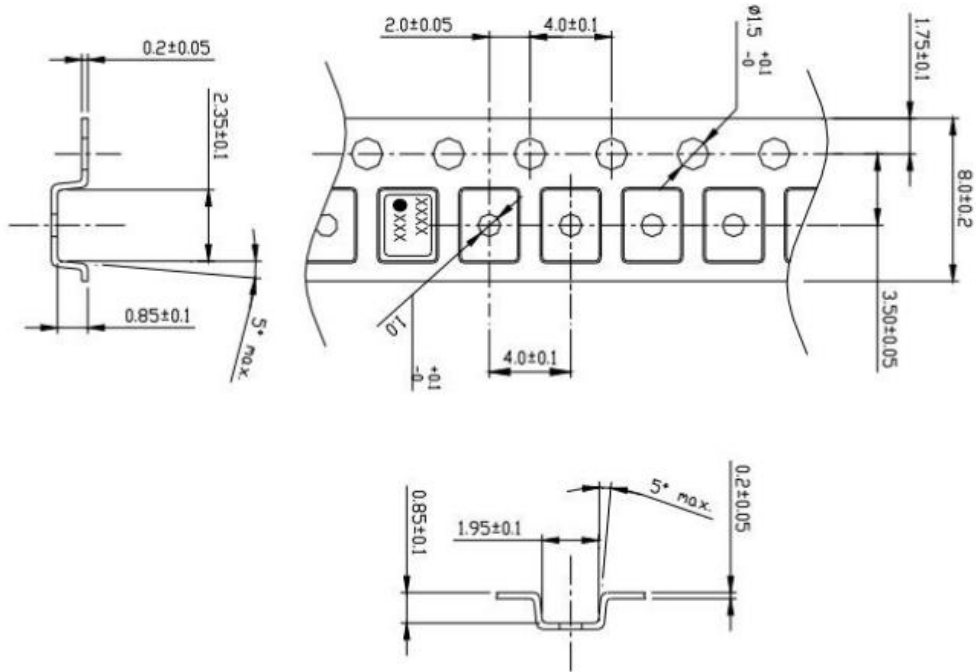
### 5. Reflow Soldering Curve (RoHS)





## 6. Packing Information

1) Carrier tape and taping reel sizes (Unit: mm)

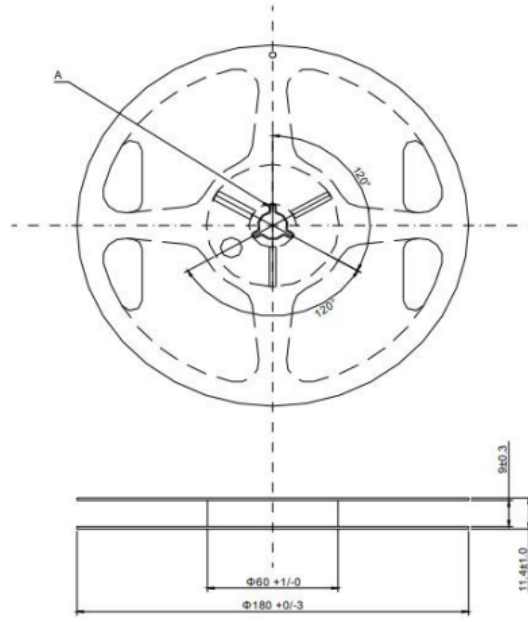


1. Clearance of an embossing tape, and a product unit: mm

Direction	Pocket size	TCXO size	Clearance
L	2.35±0.10	2.00±0.15	0.35±0.25
W	1.95±0.10	1.60±0.15	0.35±0.25
H	0.85±0.05	0.70±0.10	0.15±0.15

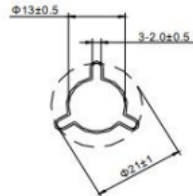
2. Quality : Polystyrene (Conductivity)

3. Tensile strength of an embossing tape : more than 14N



Material:Polystyrene (Conductivity)  
unit:mm

Section A



DAPU Cont.