

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

# DATASHEET

PRODUCT TYPE:                   DPTC2016                  

DAPU P/N:           T2016C-05A9-40.00MHz          

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
LIN Jianhua	David	William	
Date: 2023.07.04			

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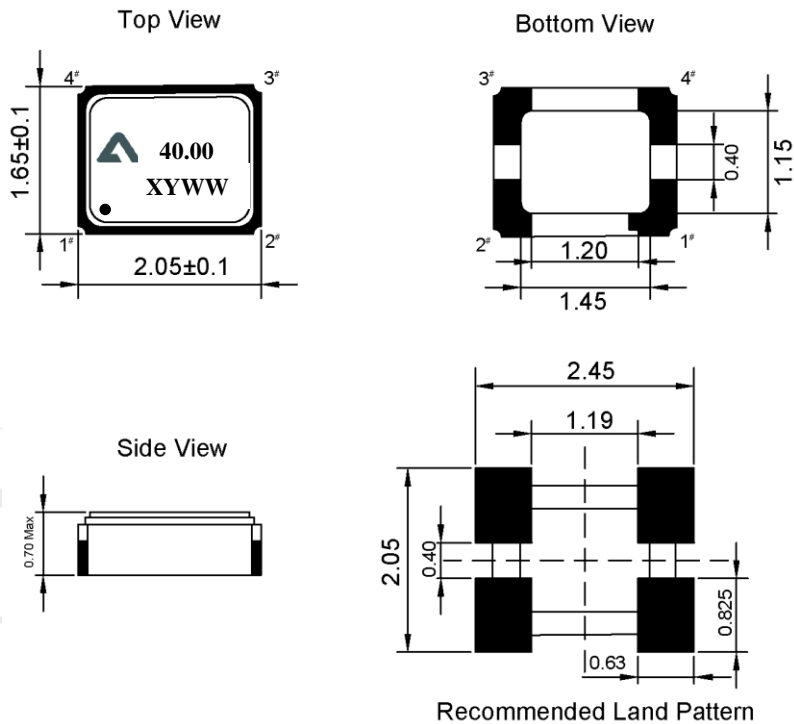
## 1. Electrical Parameters

MODEL: T2016C-05A9-40.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	40.00			MHz	
	Output Waveform	Clipped Sine Wave				
	Vp-p	0.8			V	
	Load	10KΩ//10pF				
Frequency Stabilities	Frequency Tolerance	-1.5		+1.5	$\times 10^{-6}$	@25 ± 2°C, 2H, after 2 times reflow soldering, base on nominal frequency.
	vs. Temperature	-1		+1	$\times 10^{-6}$	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> =10KΩ//10pF, temperature variable speed less than 2°C per minute.
		-2		+2		T <sub>A</sub> varied from 85°C to 105°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> =10KΩ//10pF, temperature variable speed less than 2°C per minute.
	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> = 3.3 ± 5%, and O <sub>Load</sub> =10KΩ//10pF.
	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> =3.3V, and O <sub>Load</sub> =10KΩ//10pF.
	Aging Tolerance 1 Year	-1		+1	$\times 10^{-6}$	T <sub>A</sub> =25°C, V <sub>cc</sub> =3.3V, and after 1h of operation.
	Frequency Slope	-0.2		0.2	ppm/°C	T <sub>A</sub> varied from -40°C to 85°C
Power Supply	Current consumption			3	mA	@25°C, V <sub>cc</sub> =3.3V, O <sub>Load</sub> =10KΩ//10pF.
	Start up Time			2	ms	More than 90% of final output voltage
	Supply Voltage	1.71	3.3	3.63	V	
SSB Phase Noise	Phase Noise@25 ± 2°C			-105	dBc/Hz	100Hz
				-125		1KHz
				-135		10KHz
				-145		100KHz



Environmental Conditions	Operable Temperature	-40		+105	°C	
	Storage Temperature	-55		+125	°C	
	ESD Level	Human Body Model, class2: 2000V; ANSI/ESDA/JEDEC JS-001-2010.				
		Machine Model, class B: 200V; JEDEC JESD22-A115C.				
	Moisture Sensitivity Level	Level 3.				
	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)**



PIN NAME	CONNECTION
PIN1	NC
PIN2	GND
PIN3	OUTPUT
PIN4	VCC

Note1: N/C is not connected



### 3. Marking Information

**40.00: Frequency 40.00Mhz**

**▲: DAPU logo**

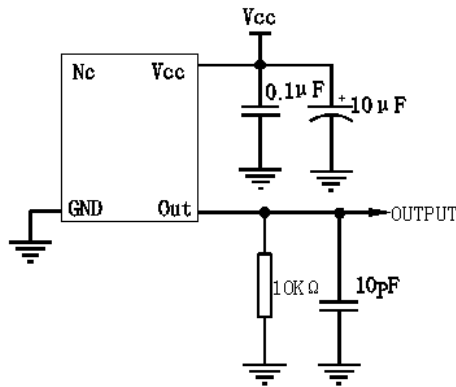
**X: Lot No.**

**Y: Year**

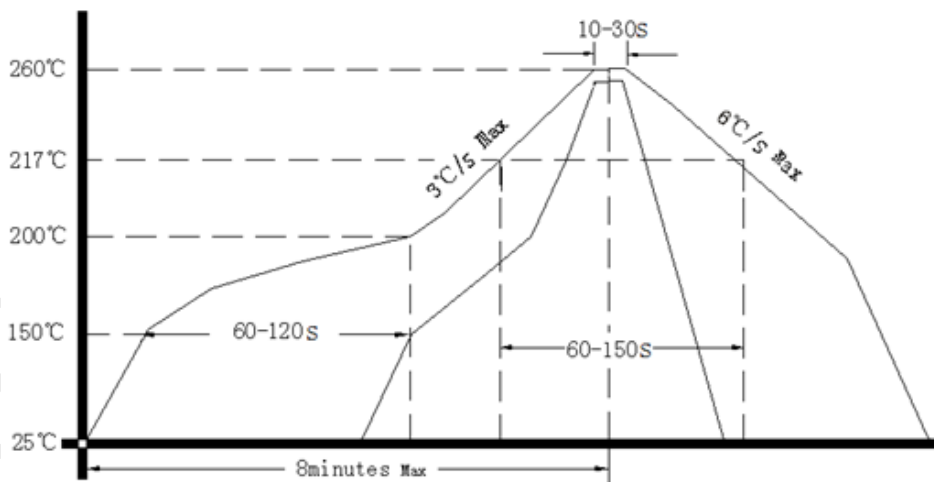
**WW: Week**

**● : Pin1 Index**

### 4. Test Circuit



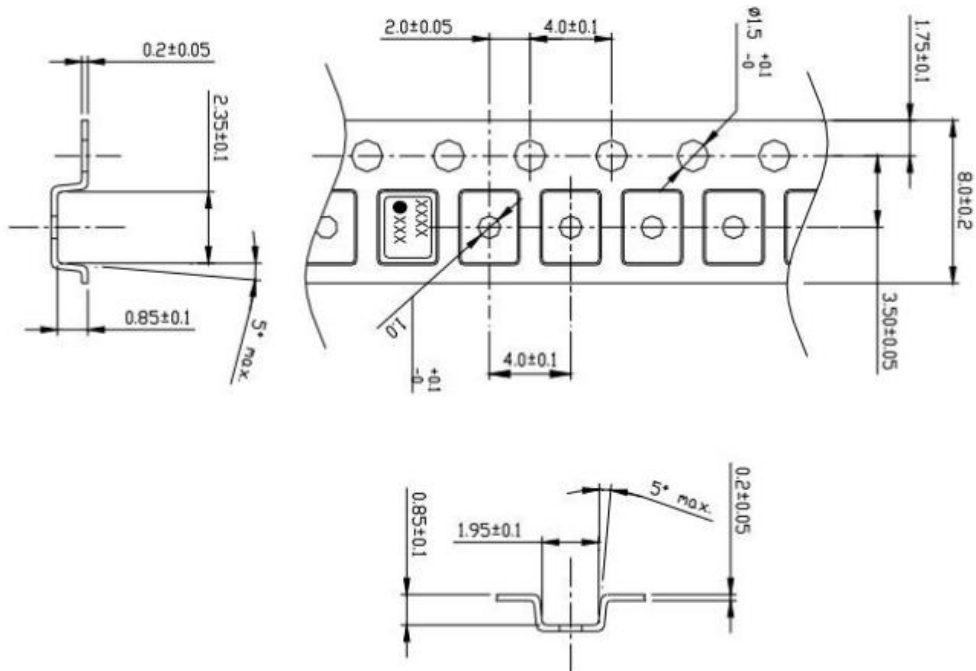
### 5. Reflow Soldering Curve (RoHS)





## 6. Packing Information

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

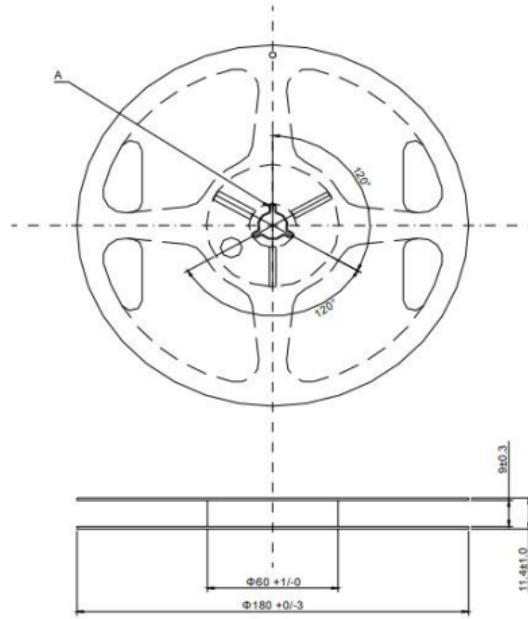


1. Clearance of an embossing tape, and a product unit: mm

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

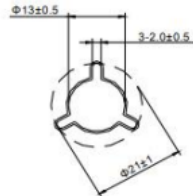
2. Quality : Polystyrene (Conductivity)

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



Material:Polystyrene (Conductivity)  
unit:mm

Section A



DAPU Cont.