

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

# DATASHEET

DAPU P/N: **079A-C419-10.00MHz-G007**

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DAPU			Customer Approval
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2025.02.12			

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**Table of amendment**

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	<i>Amway</i>	2025.02.12



## 1. Electrical Parameters

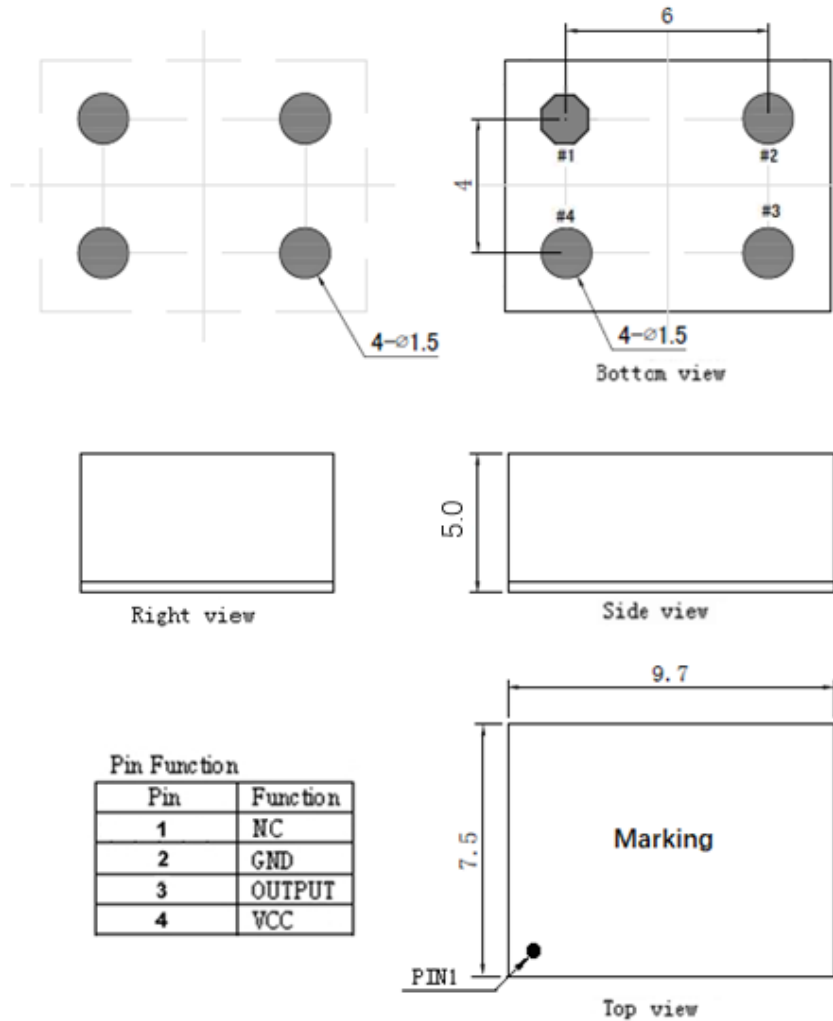
MODEL: O79A-C419-10.00MHz-G007						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	10.00			MHz	
	Output Waveform	Sine wave				
	Level	6		10	dBm	
	Load	50			$\Omega$	
	Harmonics Suppression			-30	dBc	
	Spurious Suppression			-60	dBc	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.02		+0.02	$\times 10^{-6}$	$T_A$ varied from $-40^\circ\text{C}$ to $60^\circ\text{C}$ , measurement referenced to frequency observed with $f_{\text{ref}}=(f_{\text{max}}+f_{\text{min}})/2$ , $V_{\text{cc}}=3.3\text{V}$ , $O_{\text{load}}=50\Omega$ , temperature variable speed less than $2^\circ\text{C}$ per minute.
	Initial Frequency Tolerance	-1		+1	$\times 10^{-6}$	Measurement referenced to frequency observed with $T_A=25^\circ\text{C}$ , $V_{\text{cc}}=3.3\text{V}$ , and after 15 minutes of operation, at time of shipment.
	Frequency Tolerance vs. Supply Voltage	-0.01		+0.01	$\times 10^{-6}$	measurement referenced to frequency observed $T_A=25^\circ\text{C}$ , $V_{\text{cc}}$ varied from 3.13V to 3.47V, $O_{\text{load}}=50\Omega$ .
	Frequency Tolerance vs. Load	-0.01		+0.01	$\times 10^{-6}$	10% load change measurement referenced to frequency observed with $T_A=25^\circ\text{C}$ , $V_{\text{cc}}=3.3\text{V}$ , and $O_{\text{Load}}=50\Omega$ .
	Short-Term Stability: Allan Variance			0.1	$\times 10^{-9}$	Temperature stability, no EMI/EMC or other interference, test after power for 1 hour ref. to $25^\circ\text{C}$ ; 1s.
	Aging Tolerance Per Day	-5		+5	$\times 10^{-9}$	$V_{\text{cc}}, T_A$ constant measurement referenced to frequency observed with $T_A=25^\circ\text{C}$ , $V_{\text{cc}}=3.3\text{V}$ , and after 30 days of operation.
	Aging Tolerance 1 Year	-1		+1	$\times 10^{-6}$	
Power Supply	Supply Voltage	3.13	3.3	3.47	V	
	Steady Consumption			250	mA	@ $25^\circ\text{C}$
	Warm up current			600	mA	



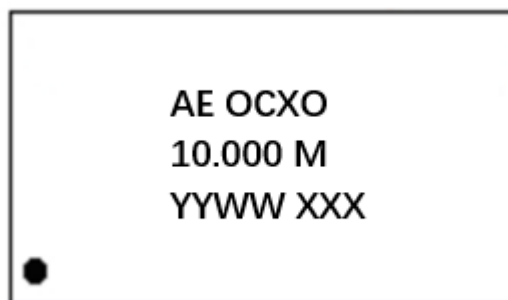
Phase Noise	Phase Noise		-110	-105	dBc/Hz	10Hz
			-140	-135		100Hz
			-155	-150		1KHz
			-160	-155		10KHz
			-160	-155		100KHz
			-165	-160		1MHz
Environmental Conditions	Operable Temperature	-40		+60	°C	
	Storage Temperature	-55		+105	°C	
	ESD Level	Human Body Model, class2: 2000V to 4000V; ANSI/ESDA/JEDEC JS-001-2010.				
		Machine Model, class B: 200V to 400V; JEDEC JESD22-A115C.				
	Moisture Sensitivity Level	Level 3.				
	Vibration	Test Condition: 0.75mm ;acceleration:10g;10Hz~500Hz, one cycle per 30 min, test 2 hour. (3 times for each 3 directions X , Y , Z), IEC 68-2-06 Test Fc.				
Shock	50g; 11ms; 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)



Marking:



**Note1:** Tolerance  $\pm 0.3\text{mm}$  without mark

**Note2:** The YY representative: year, WW representative: week

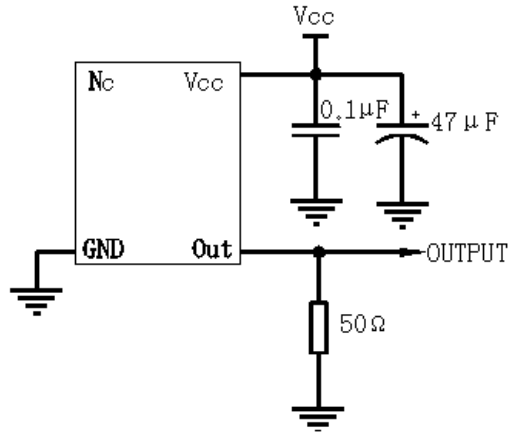
Last three X represents product serial number, eg: 001, 002, 003...

**Note3:** Referential Weight 0.7g

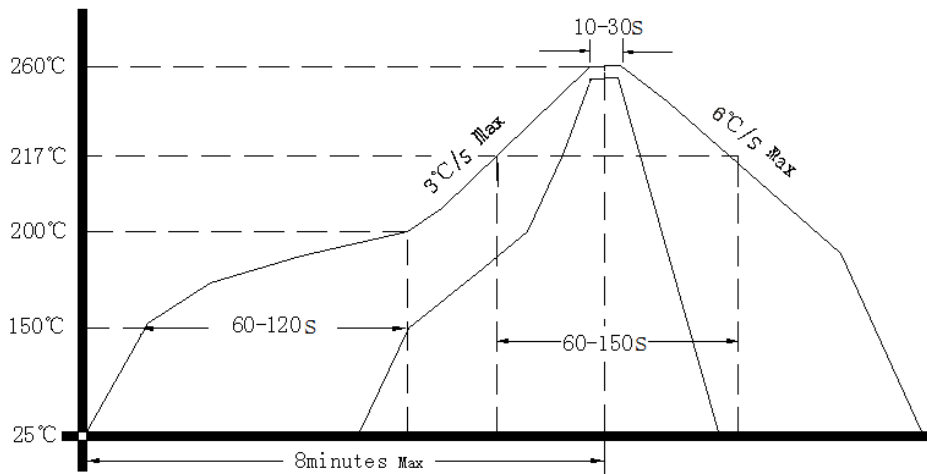
**Note4:** NC is not connect



### 3. Test Circuit



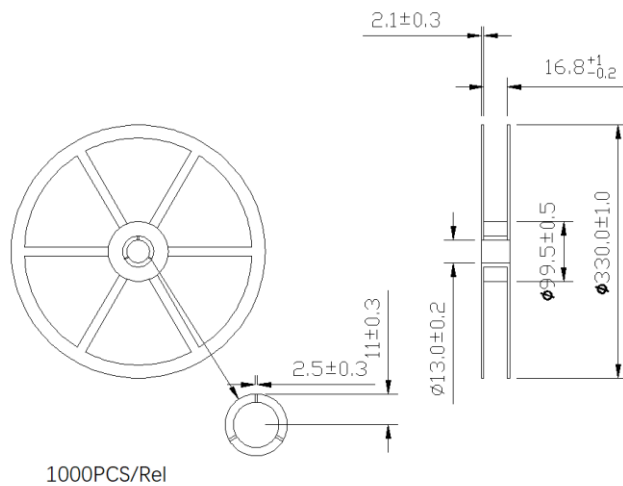
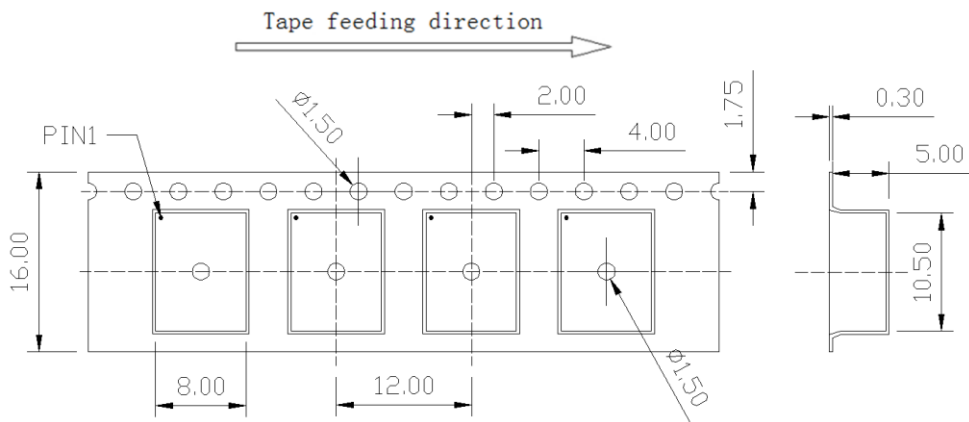
### 4. Reflow Soldering Curve (RoHS)



Passing through reflow upside down is not supported



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



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