Customer Code : _____

DATASHEET

DAPU P/N: **T22-B582-26.00MHz**

Customer P/N: _____

DAPU			Customer Approval
Drew	Audited	Approved	
Date: 2023.12.12			Stamp, please! Thanks!

Guangdong Dapu Telecom Technology Co.,Ltd

Building 5, No.24, Industrial East Road, Songshanhu Park, Dongguan, Guangdong, P.R. China

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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	Amway	2022.09.02
1.1	The “Supply Voltage” changed	Amway	2023.12.12

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1. Electrical Parameters

MODEL： T22-B582-26.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	26.00			MHz	
	Output Waveform	Clipped Sine Wave				
	Vp-p	0.8			V	
	Symmetry	40		60	%	GND level(DC cut)
	Start up time			2	ms	@90% of final Vout level
	Load	10KΩ//10pF				
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.5		+0.5	$\times 10^{-6}$	T_A varied from -30℃ to 85℃, measurement referenced to frequency observed with T_A=25℃, V_{cc}=2.8V, O_{load}=10KΩ//10pF, temperature variable speed less than 2℃per minute.
		-2.5		+2.5	$\times 10^{-6}$	T_A varied from -40℃ to -30℃, measurement referenced to frequency observed with T_A=25℃, V_{cc}=2.8V, O_{load}=10KΩ//10pF, temperature variable speed less than 2℃per minute.
	Initial Frequency Tolerance	-2		+2	$\times 10^{-6}$	T_A=25℃, V_c=1.4V ,After 2 times reflow, Ref.to nominal frequency, please leave after reflow in 2h or more at room ambient.
	Frequency Tolerance vs. Supply Voltage	-0.2		+0.2	$\times 10^{-6}$	measurement referenced to frequency observed T_A=25℃, V_{cc} varied from 2.66V to 2.94V, V_c=1.4V, and O_{Load}=10KΩ//10pF.
	Frequency Tolerance vs. Load	-0.2		+0.2	$\times 10^{-6}$	10% load change measurement referenced to frequency observed with T_A=25℃, V_{cc}=2.8V ,V_c=1.4V,and O_{Load}=10KΩ//10pF.
	Aging Tolerance 1 Year	-1		+1	$\times 10^{-6}$	T_A=Room ambient.
Power Supply	Operating Current			1.5	mA	@25℃, V_{cc}=2.8V.
	Supply Voltage	1.71	2.8	2.94	V	
Voltage Control Characteristics	Frequency Tuning Range	-15		-9	$\times 10^{-6}$	V_c=0V. measurement referenced to V_c=1.4V.
		-2		+2	$\times 10^{-6}$	V_c=1.4V. measurement referenced to exactly 26.00MHz.
		+9		+15	$\times 10^{-6}$	V_c=2.8V. measurement referenced to V_c=1.4 V.
	Slope	Positive				
	Input Impedance	500			KΩ	

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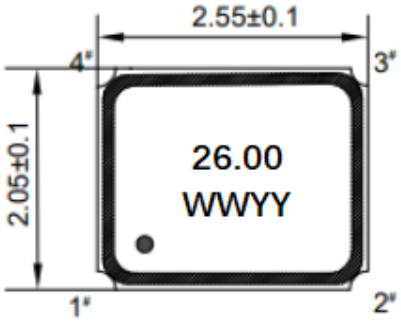
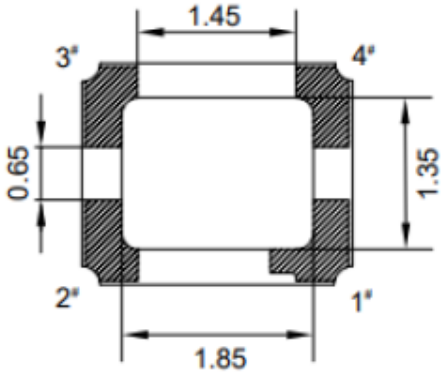
Phase Noise	Phase Noise			-80	dBc/Hz	10Hz
				-105		100Hz
				-130		1KHz
				-140		10KHz
				-150		100KHz
				-150		1MHz
Environmental Conditions	Operable Temperature	-40		+85	℃	
	Storage Temperature	-40		+85	℃	
	ESD Level	Human Body Model, class2: 2000V to 4000V; ANSI/ESDA/JEDEC JS-001-2010.				
		Machine Model, class B: 200V to 400V; JEDEC JESD22-A115C.				
	Moisture Sensitivity Level	Level 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 (℃)	-10~35℃				

2. Mechanical Structure(mm)

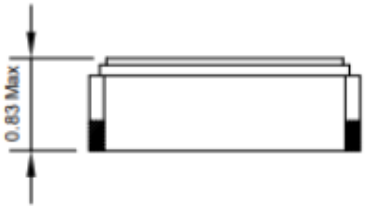
Top View



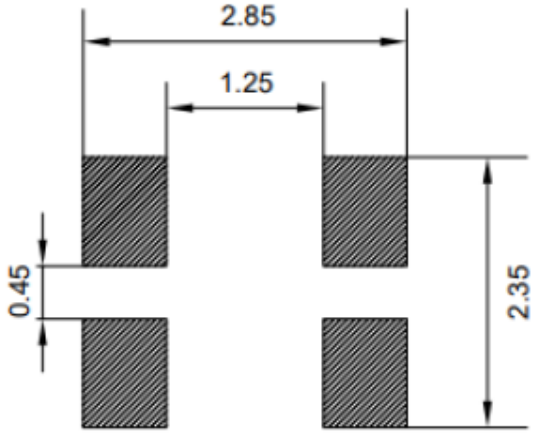
Bottom View



Side View



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



Recommended Land Pattern

Note1: Tolerance ±0.2mm without mark

Note2: The WW representative: week
After YY representative: year

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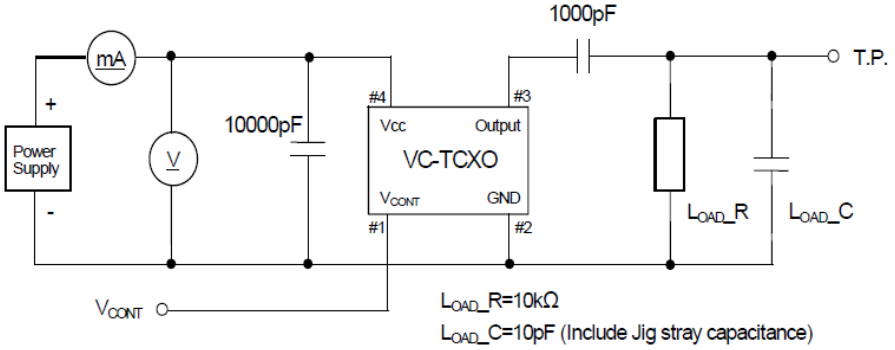
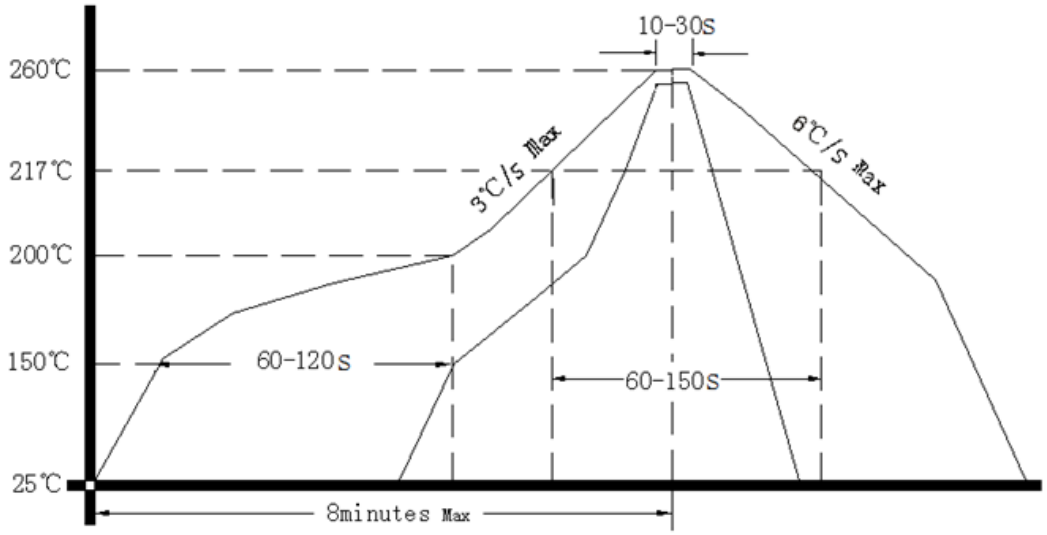
3. Test Circuit



4. Reflow Soldering Curve (RoHS)



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

5. Package: Tape & Reel (mm)