Travelling Merchant:_____

DATASHEET

Standard: **T1612-A573-26.00MHz**

P/N: _____

Plot			The Label
Drew	Audited	Approved	
Amway.wei	Carry.Wang	Jason Zhao	
Date: 2020.11.18			Stamp, please! Thanks!

Guangdong Dapu Telecom Technology Co.,Ltd

Bldg13-16,.N.Ind.Zone,SSL Industry Park, Dongguan City, Guangdong Province, China

TEL：0086-0769-88010888 FAX：0086-0769-81800098

Bldg13-16,.N.Ind.Zone,SSL Industry Park, Dongguan City, Guangdong Province, PR China
TEL:0086-0769-88010888
FAX:0086-0769-81800098

Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	Amway	2020.11.18

Bldg13-16,.N.Ind.Zone,SSL Industry Park, Dongguan City, Guangdong Province, PR China
TEL:0086-0769-88010888
FAX:0086-0769-81800098

1. Electrical Parameters

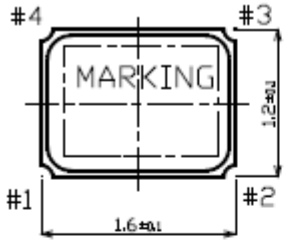
MODEL： T1612-A573-26.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		26.00		MHz	
	Output Waveform		Clipped Sine Wave			
	$V_{out,absolute}$	-0.1		1.5	Vabs	
	$V_{out,swing}$	0.7		1.2	Vp-p	
	Symmetry	45	50	55	%	GND level(DC CUT)
	Harmonics			-20	dBc	2^{nd}
				-10	dBc	3^{rd}
				-60	dBc	34^{th}, 36^{th},>69^{th}
				-18	dBc	other
	Load		10KΩ//10pF			
Frequency Stabilities	With respect to Temperature	-1.5		+1.5	$\times 10^{-6}$	-30℃ to 85℃, @25℃+/-2℃.
	With respect to Temperature gradient	-0.05		+0.05	$\times 10^{-6}$/K	Frequency change in ambient temperature rane -20℃ to 70℃, at any constant V_c.
	Nominal Frequency Tolerance	-1		+1	$\times 10^{-6}$	Measurement referenced to frequency observed with T_A=25℃, V_{cc}=1.8V, V_c=0.8V within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-0.2		+0.2	$\times 10^{-6}$	measurement referenced to frequency observed T_A=25℃, V_{cc} varied from 1.7V to1.9V, V_c=1.5V 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}=1.8V, V_c=0.8V and O_{Load}=10KΩ//10pF .
	Frequency tolerance after reflow soldering	-1		+1	$\times 10^{-6}$	2 times, with respect to initial frequency.
	With respect to humidity	-1		+1	$\times 10^{-6}$	Operating temperature+85℃@85%RH, 120H,reference initial frequency.
	Short-term (Allan variance)			1	$\times 10^{-9}$	Temperature stability, no EMI\EMC or other interference， test after power for 1hour ref. to 25℃; 1s.
	Aging Tolerance 1 Year	-1		+0.5	$\times 10^{-6}$	@25℃+/-2℃.
	Aging Tolerance 8 Year	-4		+1	$\times 10^{-6}$	@25℃+/-2℃.

Bldg13-16,.N.Ind.Zone,SSL Industry Park, Dongguan City, Guangdong Province, PR China
TEL:0086-0769-88010888
FAX:0086-0769-81800098

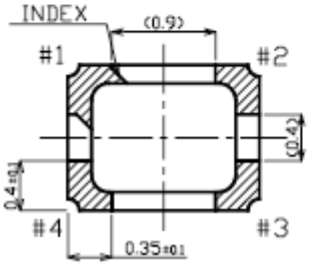
Power Supply	Operating Current			1.5	mA	@25℃+/-2℃.
	Supply Voltage	1.7	1.8	1.9	V	Operating
Start-up time	Start-up time			0.75	ms	>350m Vp-p, |Δ f|≤ 20 ppm of final frequency.
				1.5	ms	>90% of final amplitude, |Δ f|≤2ppm of final frequency.
				2.5	ms	>95% of final amplitude, |Δ f|≤0.1ppm of final frequency.
				5.0	ms	>100% of final amplitude, |Δ f|≤0.05ppm of final frequency.
Voltage Control	Frequency tuning range			-8	$\times 10^{-6}$	V_c=0.1V. measurement referenced to V_c=0.8V.
		-1		+1	$\times 10^{-6}$	V_c=0.8V. measurement referenced to Exactly 26.00MHz.
		+10.5			$\times 10^{-6}$	V_c=1.7V. measurement referenced to V_c=0.8V.
	Linearity	-20		+20	%	
	Tuning linearity deviation			16	$\times 10^{-6}$/V	
	Slope	Positive				
	Input Impedance	500			KΩ	
Phase Noise	Phase Noise			-113	dBc/Hz	100Hz
				-136		1KHz
				-149		10KHz
				-151		100KHz
				-151		1MHz
Environmental Conditions	Operable Temperature	-30		+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 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 (℃)	-10~35℃				

Bldg13-16,.N.Ind.Zone,SSL Industry Park, Dongguan City, Guangdong Province, PR China
TEL:0086-0769-88010888
FAX:0086-0769-81800098

2. Mechanical Structure(mm)



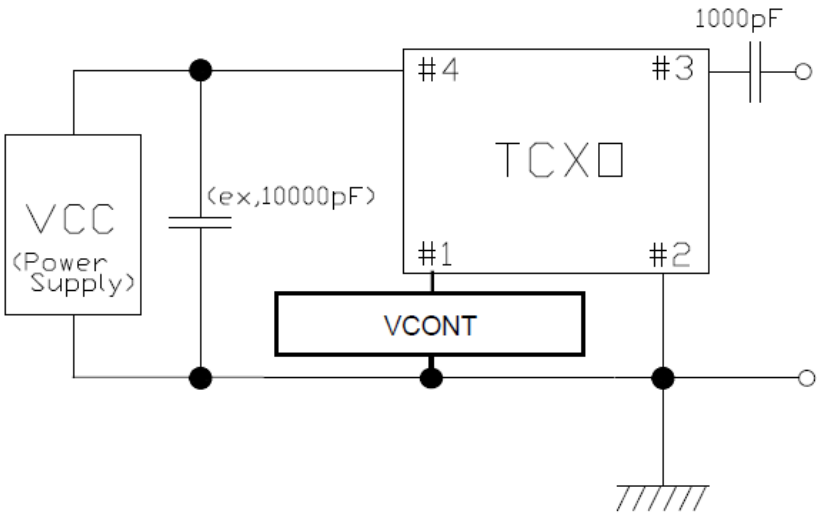
Marking
(1) Lot No.
(2) Manufacture **Code**
(3) Nominal frequency (MHz)
(4) Trace code



PAD No.	Terminal land Connections
#1	VCONT
#2	GND
#3	OUTPUT
#4	VCC

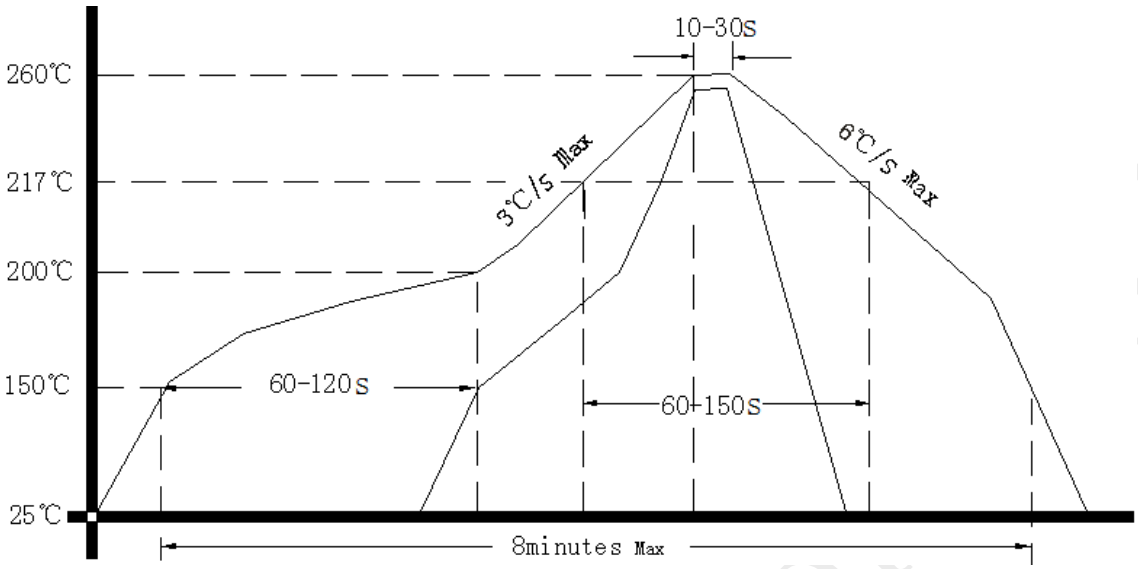
Note1: Tolerance ±0.1mm without mark

3. Test Circuit



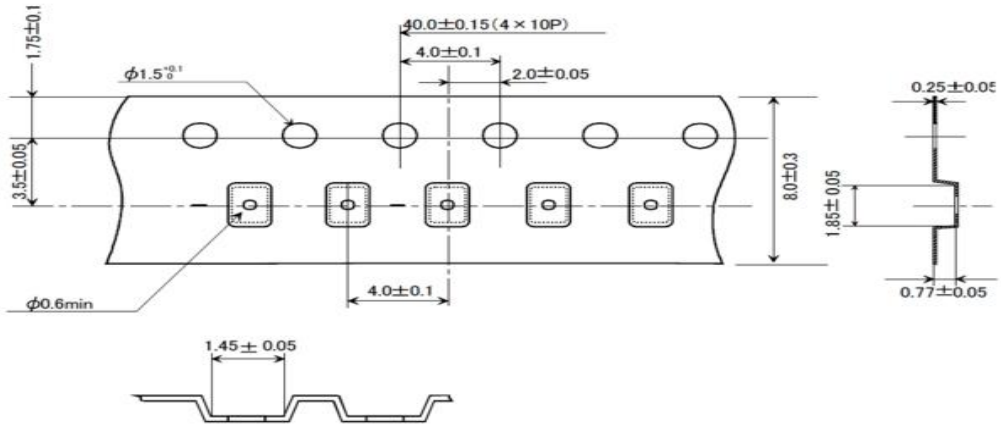
Bldg13-16,.N.Ind.Zone,SSL Industry Park, Dongguan City, Guangdong Province, PR China
TEL:0086-0769-88010888
FAX:0086-0769-81800098

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)



	Embossed carrier tape	Top cover tape
Materials	PS	PET + PE + Adhesive layer
Disposition	Antistatic	Antistatic