Travelling Merchant:_____

DATASHEET

Standard: **T22-O531-26.00MHz**

P/N: _____

Plot			The Label
Drew	Audited	Approved	
Amway.wei	Carry.Wang	James.Liu	
Date: 2018.07.25			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	2018.07.25

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

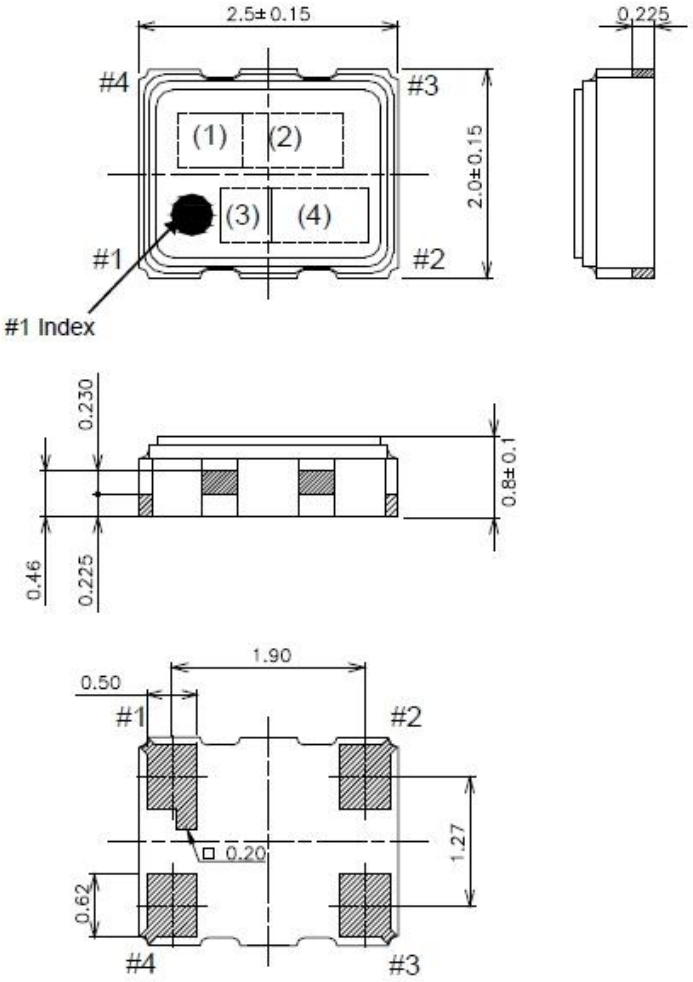
MODEL: T22-O531-26.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	26.00			MHz	
	Output Waveform	Clipped Sine Wave				
	Vp-p	0.8			V	
	Start up time			2.0	ms	90%* Vp-p(min)
						within±0.5ppm
	Symmetry	40	50	60	%	
	Harmonics			-8.0	dBc	
	Load	10KΩ//10pF				
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, V_c=1.4V, O_{load}=10KΩ//10pF, temperature variable speed less than 2℃per minute.
		-3.0		+3.0	$\times 10^{-6}$	T_A varied from -40℃ to -30℃, measurement referenced to frequency observed with T_A=25℃, V_{cc}=2.8V, V_c=1.4V, O_{load}=10KΩ//10pF, temperature variable speed less than 2℃per minute.
	Nominal Frequency Tolerance	-2.0		+2.0	$\times 10^{-6}$	T_A=25℃, Please leave after reflow in 2h or more at room ambient.
	Frequency Tolerance vs. Supply Voltage	-0.1		+0.1	$\times 10^{-6}$	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	-0.1		+0.1	$\times 10^{-6}$	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 .
	Hysteresis	-0.6		+0.6	$\times 10^{-6}$	
	G Sensitivity			2.0	$\times 10^{-9}$/G	Within 30 to 1500Hz
	Allan Variance			0.3	$\times 10^{-9}$	1s
	Slope	-0.05		+0.05	$\times 10^{-6}$	-20℃~85℃
		-0.1		+0.1	$\times 10^{-6}$	-30℃~85℃
		-0.35		+0.35	$\times 10^{-6}$	-40℃~30℃

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

	Aging Tolerance 1 Year	-1.0		+1.0	$\times 10^{-6}$	T_A=25℃, V_{cc}=2.8V, V_c=1.4V and after 1h of operation.
	Aging Tolerance 2 Years	-1.5		+1.5	$\times 10^{-6}$	
	Aging Tolerance 5 Years	-2.5		+2.5	$\times 10^{-6}$	
	Aging Tolerance 10 Years	-5.0		+5.0	$\times 10^{-6}$	
Power Supply	Operating Current			1.5	mA	@25℃, V_{cc}=2.8V, V_c=1.4V, O_{Load}=10KΩ//10pF.
	Supply Voltage	2.66	2.8	2.94	V	
Voltage Control	Frequency tuning range	-15		-9	$\times 10^{-6}$	V_c=0.4V. 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=2.4V. measurement referenced to V_c=1.4V.
	Linearity			10	%	
	Slope	Positive				
	Input Impedance	100			KΩ	
Phase Noise	Phase Noise		-55	-50	dBc/Hz	1Hz
			-85	-80		10Hz
			-110	-105		100Hz
			-135	-130		1KHz
			-150	-145		10KHz
			-155	-150		100KHz
Environmental Conditions	Operating 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; ANSI/ESDA/JEDEC JS-001-2010.				
	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 (℃)	-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)



Pin Connections

Pin No.	Connection
#1	V_{CONT}
#2	GND
#3	Output
#4	V_{CC}

Marking

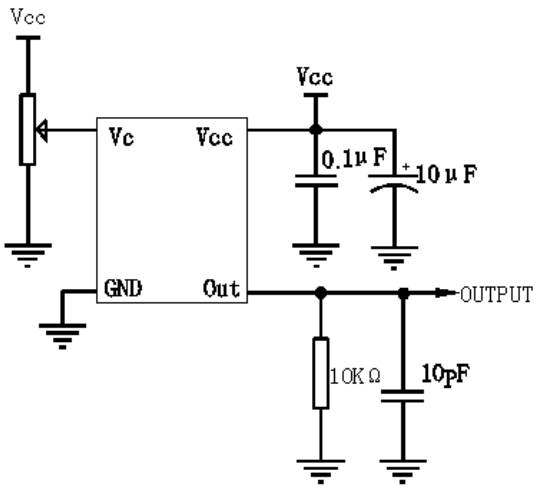
(1) Model code	AN
(2) Frequency	26.0 (MHz, 3digits)
(3) Logo	D
(4) Date code	Year (1digit) +Week (2digits)
	e.g.2014/1/1 → 401

unit: mm

Dimensional Tolerance: ±0.15

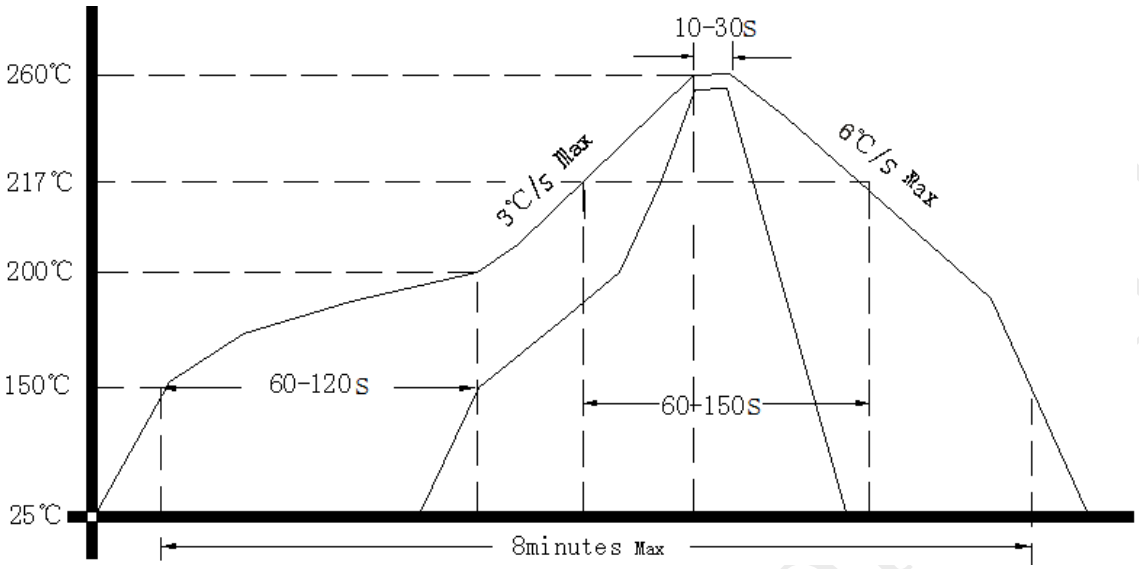
(Unless otherwise noted)

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)



5. Package: Tape & Reel (mm)