

Travelling Merchant: _____

DATASHEET

Standard: **T21-P571-26.00MHz-SA**

P/N: _____

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2020.12.24			

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1. Electrical Parameters

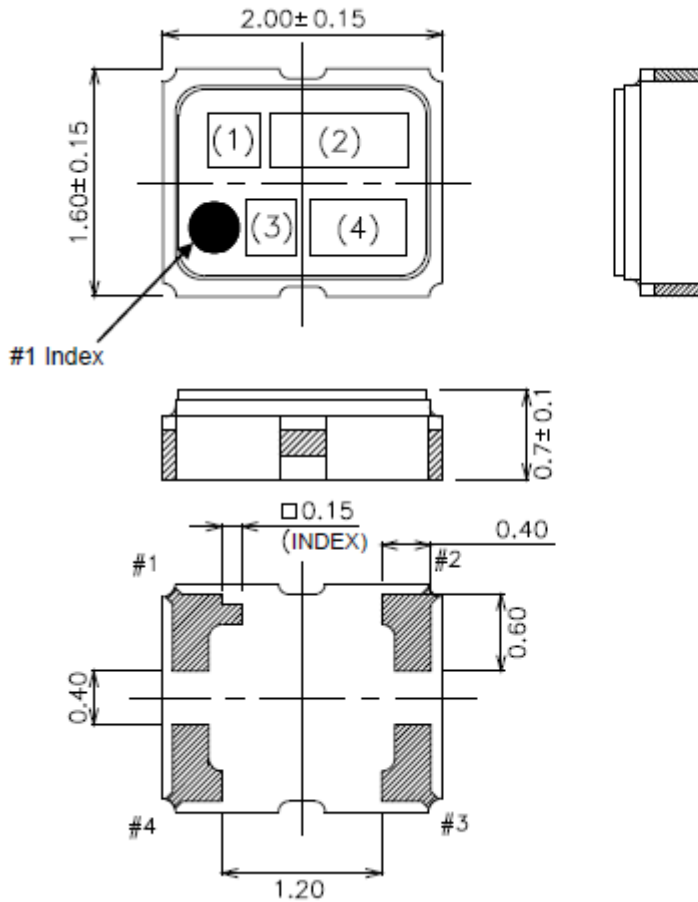
MODEL: T21-P571-26.00MHz-SA						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	26.00			MHz	
	Output Waveform	Clipped Sine Wave				
	Start up time			2.0	ms	90% of final Vout level
	Vp-p	0.8			V	
	Symmetry	40		60	%	GND Level (DC cut)
	Harmonics			-5	dBc	
	Load	10KΩ//10pF				
Frequency Stabilities	Frequency Tolerance	-1.5		+1.5	$\times 10^{-6}$	Vc=2.0V ,After two times reflow Ref. to nominal frequency
	vs. Temperature Range	-3		+3	$\times 10^{-6}$	TA=-40~+85° C Ref. to Frequency, Vc=2.0V
	Frequency Tolerance vs. Supply Voltage	-0.2		+0.2	$\times 10^{-6}$	measurement referenced to frequency observed TA=25°C, Vcc varied from3.13V to 3.47V, Vc=2.0V ,and OLoad=10KΩ//10pF
Frequency Stabilities	Frequency Tolerance vs. Load	-0.2		+0.2	$\times 10^{-6}$	10% load change measurement referenced to frequency observed with TA=25°C, Vcc=3.3V, Vc=2.0V ,and OLoad=10KΩ//10pF .
	Aging Tolerance Per Day	-0.02		+0.02	$\times 10^{-6}$	TA=25°C, Vcc=3.3V, Vc=2.0V ,and after 1h of operation.
	Aging Tolerance 1 Year	-1		+1	$\times 10^{-6}$	
Power Supply	Operating Current			1.5	mA	
	Supply Voltage	3.13	3.3	3.47	V	
Phase Noise	Phase Noise			-85	dBc/Hz	10Hz
				-110		100Hz
				-130		1KHz
				-140		10KHz
				-145		100KHz
				-145		1MHz



Voltage Control Characteristics	Frequency Tuning Range			-8.0	$\times 10^{-6}$	$V_c=1.0V$. measurement referenced to $V_c=2.0V$
		-1.5		+1.5	$\times 10^{-6}$	$V_c=2.0V$. measurement referenced to exactly 26.00MHz
		+8.0			$\times 10^{-6}$	$V_c=3.0V$. measurement referenced to $V_c=2.0V$
	Input Resistance	500			K Ω	
Environmental Conditions	Operable Temperature	-40		+85	$^{\circ}C$	
	Storage Temperature	-40		+85	$^{\circ}C$	
	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 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 ($^{\circ}C$)	-10~35 $^{\circ}C$				



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.2017/1/1 → 701

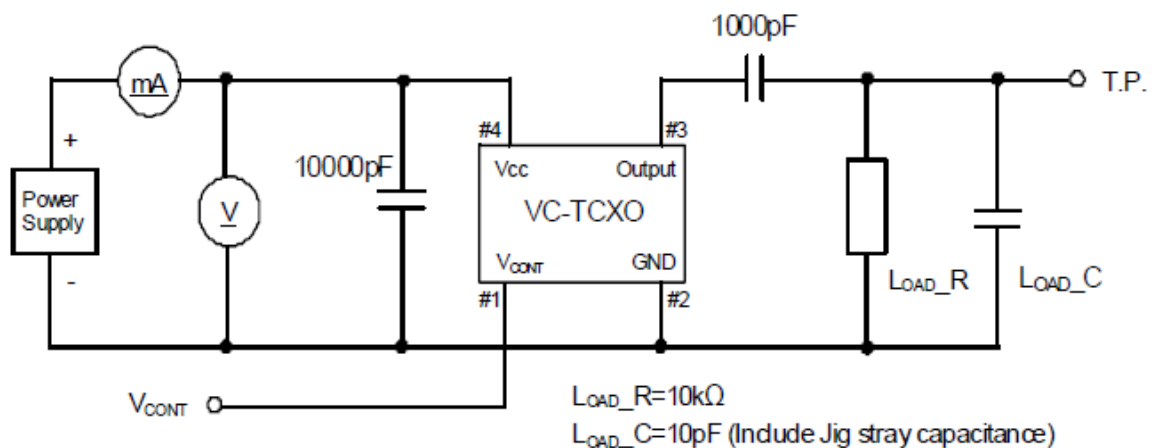
unit: mm

Dimensional Tolerance: ±0.15

(Unless otherwise noted)

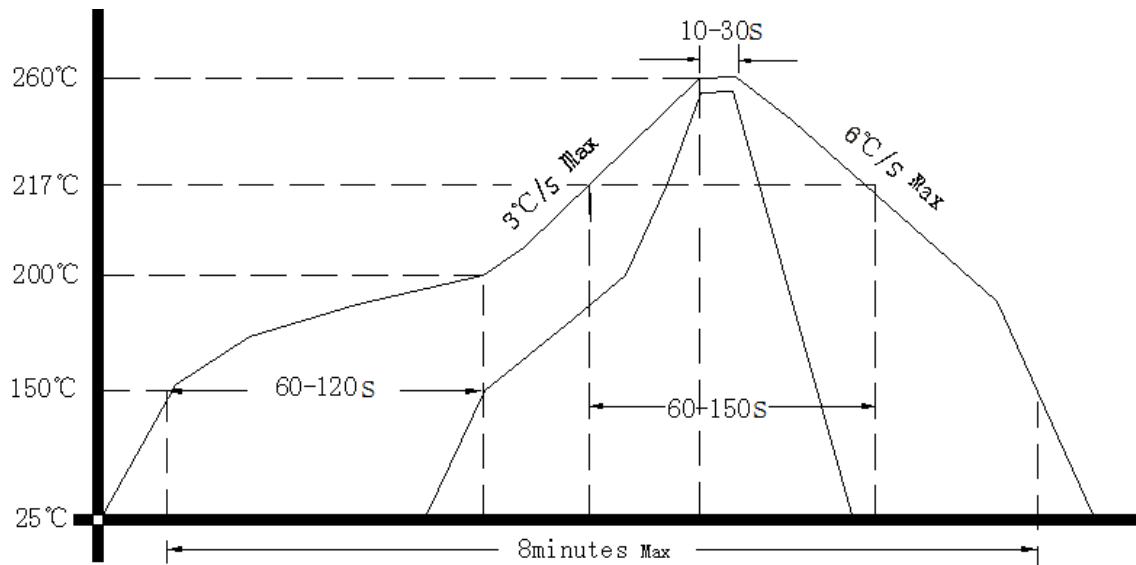
Note1: Tolerance ±0.2mm

3. Test Circuit





4. Reflow Soldering Curve (RoHS)



5. Package: Tape & Reel (mm)

