

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

# DATASHEET

DAPU P/N:     **T21-S569-24.00MHz**    

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DAPU			Customer Approval
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2021.06.28			

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**Table of amendment**

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	<i>Amway</i>	2021.06.28



## 1. Electrical Parameters

MODEL: T21-S569-24.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	24.00			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 V <sub>OUT</sub> level
	Load	9	10	11	kΩ/pF	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.5		+0.5	$\times 10^{-6}$	T <sub>A</sub> varied from -30°C to 85°C, measurement referenced to frequency observed with T <sub>A</sub> =25±2°C, V <sub>cc</sub> =3.0V, O <sub>load</sub> =10KΩ//10pF, temperature variable speed less than 2°C per minute.
	Nominal Frequency Tolerance	-1.5		+1.5	$\times 10^{-6}$	Ref. to nominal frequency, 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 <sub>A</sub> =25°C, V <sub>cc</sub> varied from 2.85V to 3.15V, and O <sub>Load</sub> =10KΩ//10pF.
	Frequency Tolerance vs. Load	-0.1		+0.1	$\times 10^{-6}$	10% load change measurement referenced to frequency observed with T <sub>A</sub> =25°C, V <sub>cc</sub> =3.0V, and O <sub>Load</sub> =10KΩ//10pF.
	G Sensitivity			2	$\times 10^{-9}/G$	30Hz to 1500Hz random vibration in each of 3-axis.
	Aging Tolerance 1 Year	-1		+1	$\times 10^{-6}$	T <sub>A</sub> =25°C, V <sub>cc</sub> =3.0V, and after 1h of operation.
	Aging Tolerance 10 Year	-5		+5	$\times 10^{-6}$	
Phase Noise	Phase Noise @25°C			-130	dBc/Hz	1kHz
Power Supply	Operating Current			1.5	mA	@25°C, V <sub>cc</sub> =3.0V, O <sub>Load</sub> =10KΩ//10pF.
	Supply Voltage	2.85	3.0	3.15	V	

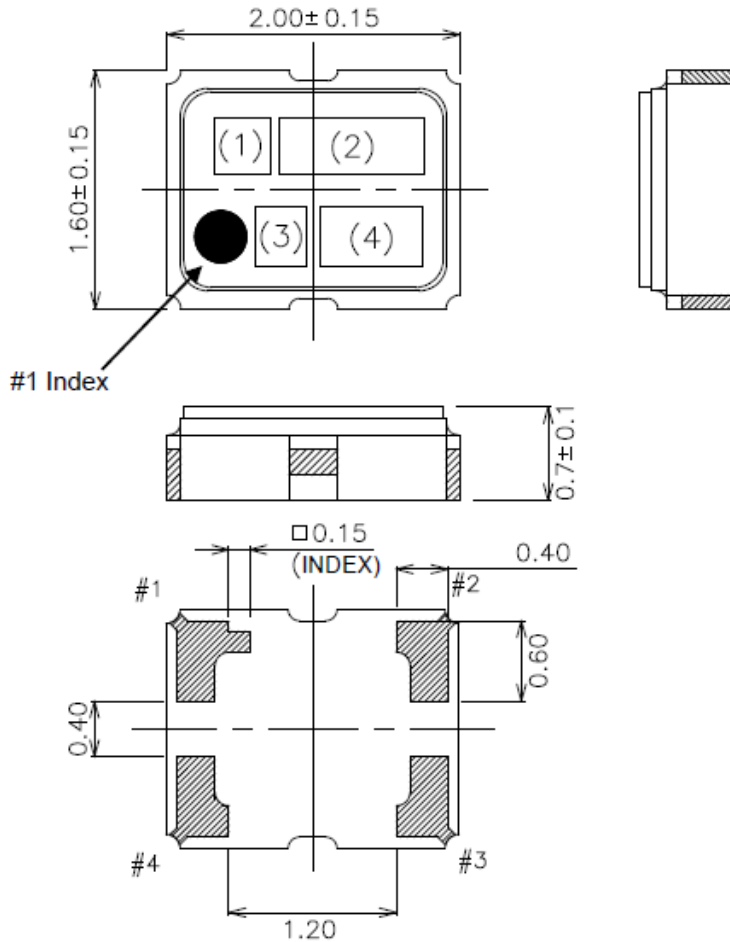


Environmental Conditions	Operable Temperature	-30		+85	°C	
	Storage Temperature	-40		+85	°C	
	ESD Level	Human Body Model,class2: 2000V to 4000V; ANSI/ESDA/JEDEC JS-001-2010.				
		Machine Model, class B: 200V to 400V; JEDEC JESD22-A115C.				
	Moisture Sensitivity Level	Level 2.				
	Vibration	Test Condition: 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 (°C)	-10~35°C				

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## 2. Mechanical Structure(mm)



### Pin Connections

Pin No.	Connection
#1	GND
#2	GND
#3	Output
#4	V <sub>CC</sub>

### Marking

(1) Model code	BN
(2) Frequency	24.0 (MHz, 3digits)
(3) Logo	D
(4) Date code	Year (1digit) +Week (2digits) e.g.2014/1/1 → 401

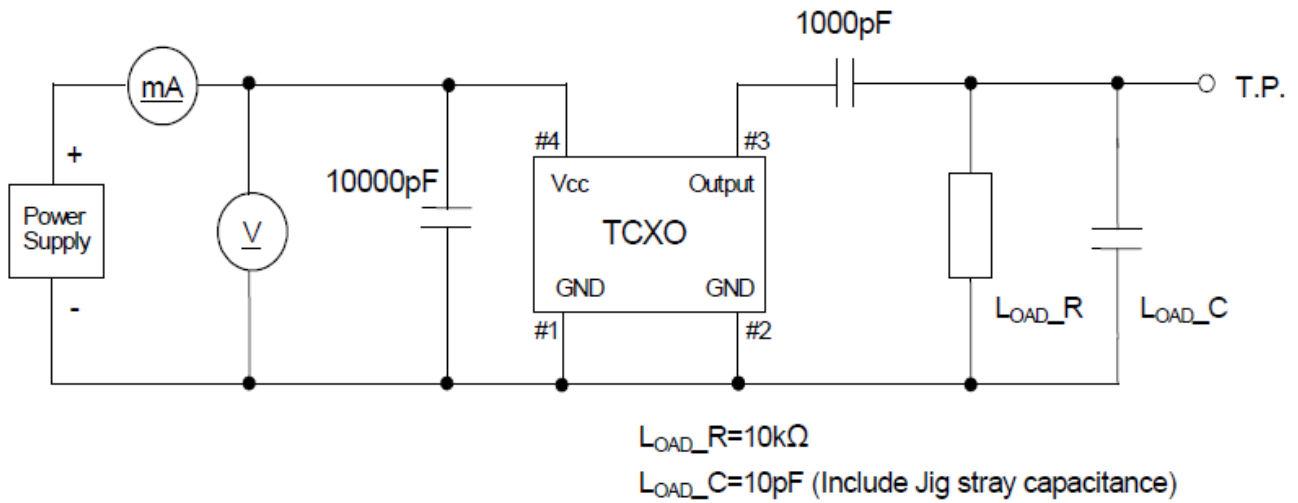
unit: mm

Dimensional Tolerance:  $\pm 0.1$

(Unless otherwise noted)



### 3. Test Circuit



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

