

Customer Code : _____

DATASHEET

DAPU P/N : **T21-S519-30.72MHz**

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DAPU			Customer Approval
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2023.12.08			

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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	<i>Amway</i>	2023.12.08

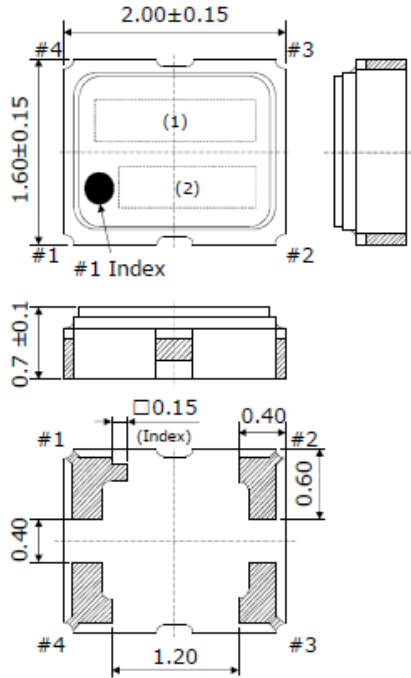


1. Electrical Parameters

MODEL: T21-S519-30.72MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	30.72			MHz	
	Output Waveform	Clipped Sine Wave				
	Vp-p	0.8			V	
	Symmetry	40		60	%	
	Start up time			2	ms	
	Harmonics			-5	dBc	
	Load	10KΩ//10pF				
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.5		+0.5	$\times 10^{-6}$	T_A varied from -40 to 85°C, measurement referenced to frequency observed with $f_{ref}=(f_{max}+f_{min})/2$, $V_{cc}=3.3V$, $O_{load}=10K\Omega//10pF$, temperature variable speed less than 2°C per minute.
	Initial Frequency Tolerance	-1.5		+1.5	$\times 10^{-6}$	After 2 times reflow Ref. to before reflow frequency
	Frequency Tolerance vs. Supply Voltage	-0.2		+0.2	$\times 10^{-6}$	measurement referenced to frequency observed $T_A=25^\circ C$, $V_{cc}=3.135V$ to 3.465V, and $O_{Load}=10K\Omega//10pF$.
	Frequency Tolerance vs. Load	-0.2		+0.2	$\times 10^{-6}$	10% load change measurement referenced to frequency observed with $T_A=25^\circ C$, $V_{cc}=3.3V$, $O_{Load}=10K\Omega//10pF$.
	Aging Tolerance 1 Year	-1		+1	$\times 10^{-6}$	$T_A=$ Room ambient
Power Supply	Current Consumption			2	mA	@25°C, $V_{cc}=3.3V$, $O_{load}=10K\Omega//10pF$.
	Supply Voltage	3.135	3.3	3.465	V	
Phase Noise	Phase Noise			-130	dBc/Hz	1kHz, $T_A=25^\circ C$
Operating Temperature		-40		+85	°C	
Storage Temperature		-40		+85	°C	



2. Mechanical Structure(mm)



Pin connections

Pin No.	Connection
#1	GND
#2	GND
#3	Output
#4	Vcc

Unit : mm
Dimensional tolerance : ±0.15
(Unless otherwise noted)

Marking

- (1) Frequency ex.) 30.720MHz → 30.72
- (2) Lot No. ex.) 2022/01/01 → 201

Year : The last digit of the year

Week : We gave the sequence of week numbers 01(first week) for production date.

There are starting from 1st of Jan. However, add '0' figure to the first week during the nine weeks.
The week means are from Sunday to Saturday.

3. Test circuit

