

Customer Code : _____

DATASHEET

DAPU P/N : **T32-F519-19.44MHz**

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DAPU			Customer Approval
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2021.09.26			

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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	<i>Amway</i>	2020.11.09
1.1	The “Mechanical Structure” “Package: Tape & Reel” changed	<i>Amway</i>	2021.09.26



1. Electrical Parameters

MODEL: T32-F519-19.44MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	19.44			MHz	
	Output Waveform	Clipped Sine Wave				
	Vp-p	0.8			V	
	Start Up Time			3	ms	@90% of final Vout level
	Symmetry	40	50	60	%	
	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} =10KΩ//10pF, temperature variable speed less than 2°C per minute.
	Initial Frequency Tolerance	-1.5		+1.5	$\times 10^{-6}$	T _A =25°C, leave after reflow in 1h of more at room ambient.
	Frequency Tolerance vs. Supply Voltage	-0.3		+0.3	$\times 10^{-6}$	measurement referenced to frequency observed T _A =25°C, V _{cc} varied from 3.135V to 3.465V, 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°C, V _{cc} =3.3V, O _{Load} =10KΩ//10pF
	Aging Tolerance 1 Year	-1		+1	$\times 10^{-6}$	T _A =25°C, V _{cc} =3.3V, and after 1h of operation.
Power Supply	Current Consumption			2	mA	@25°C, V _{cc} =3.3V, O _{load} =10KΩ//10pF.
	Supply Voltage	3.135	3.3	3.465	V	
Phase Noise	Phase Noise @25°C		-85		dBc/Hz	10Hz
			-115			100Hz
			-135			1KHz
			-145			10KHz
			-150			100KHz

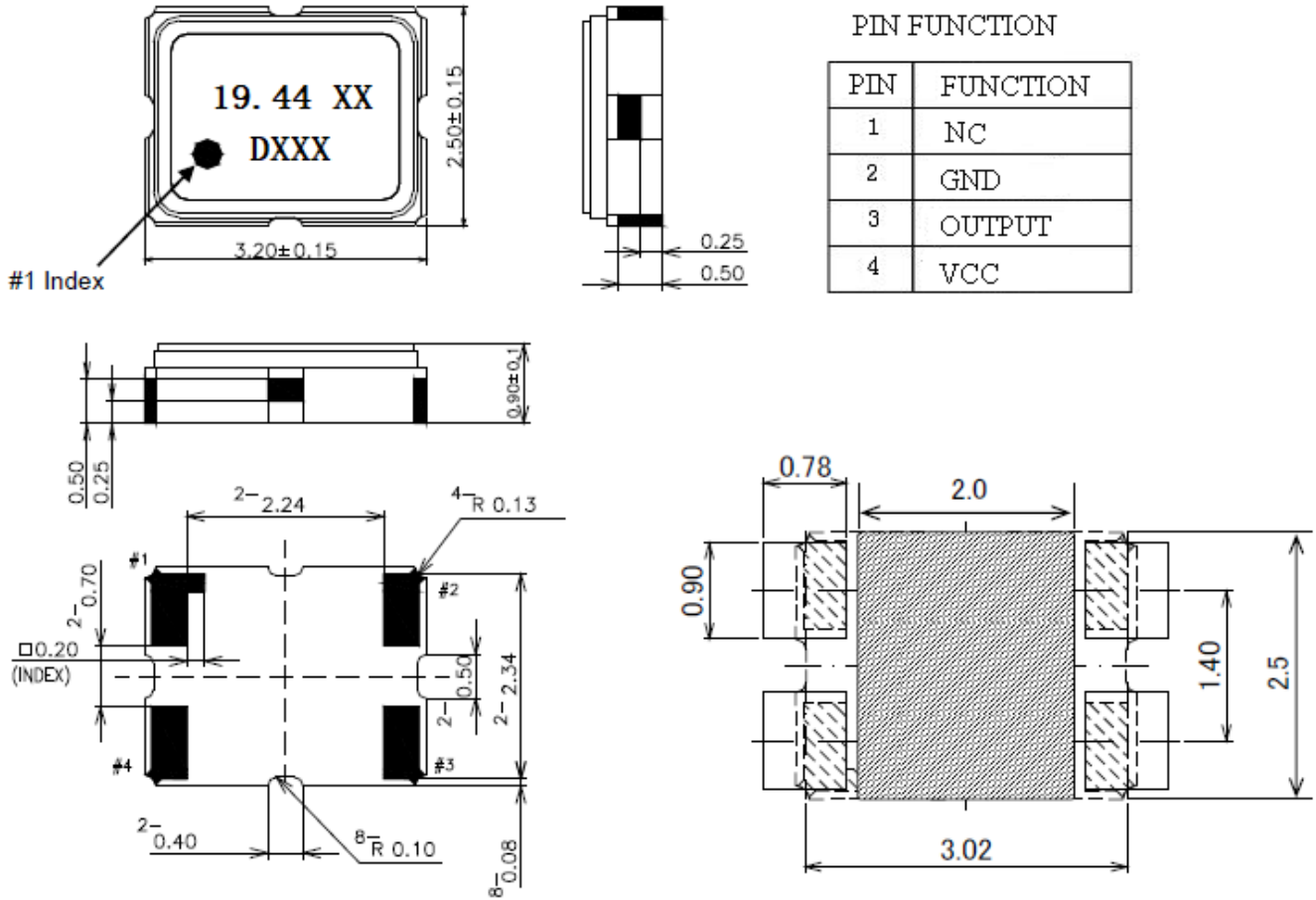


Environmental Conditions	Operable Temperature	-40		+85	°C	
	Storage Temperature	-55		+125	°C	
	ESD Level	Human Body Model, class2: 2000V to 4000V; ANSI/ESDA/JEDEC JS-001-2010.				
		Machine Model, class B: 200V to 400V; JEDEC JESD22-A115C.				
	Moisture Sensitivity Level	Level 2.				
	Vibration	Test 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)



Note1: Tolerance ±0.15mm without mark

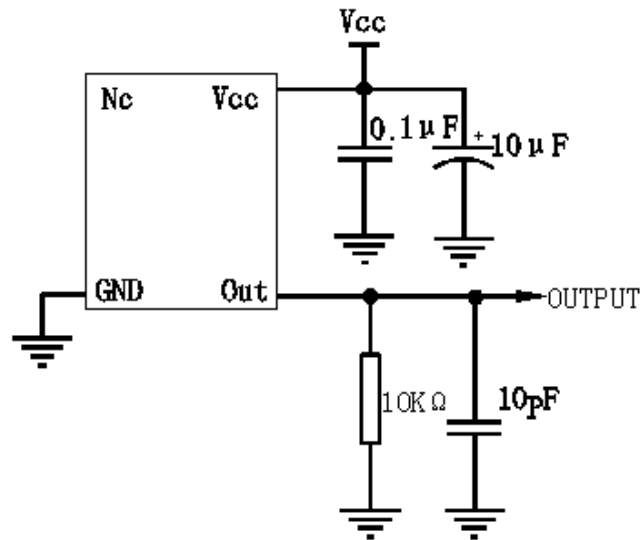
Note2: Referential weight 0.02g

Note3: NC is not connect

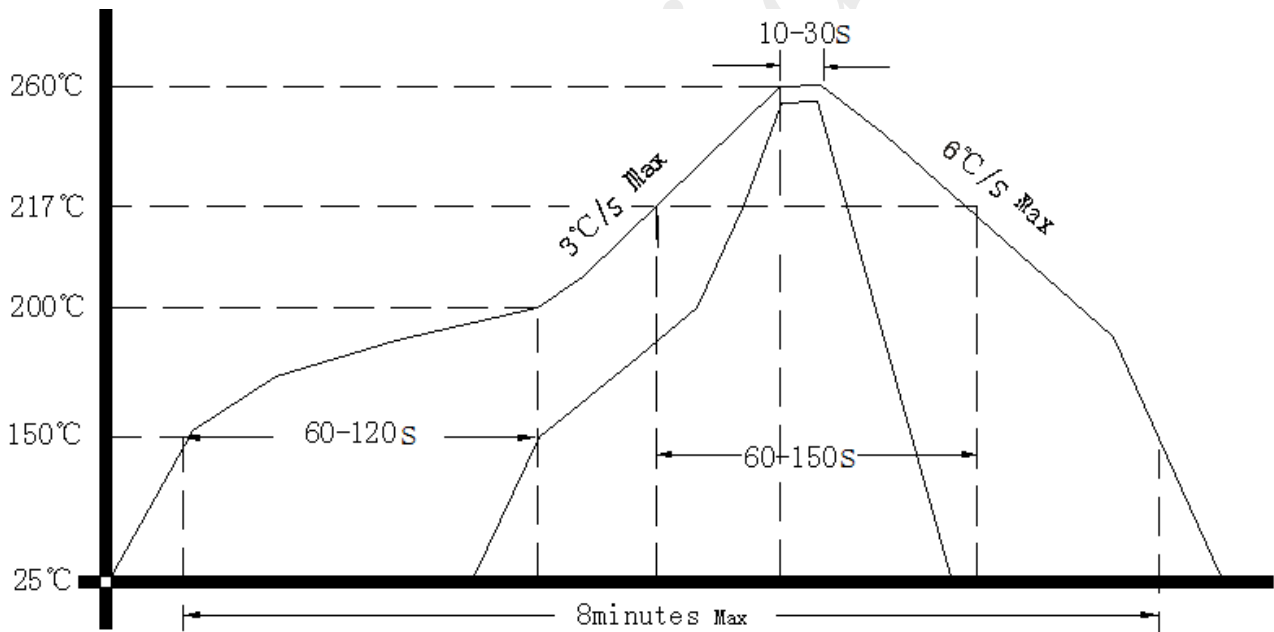
Note4: The first two XX represent the internal code,
The latter X represents the year, and the last two XX represent the week.



3. Test circuit

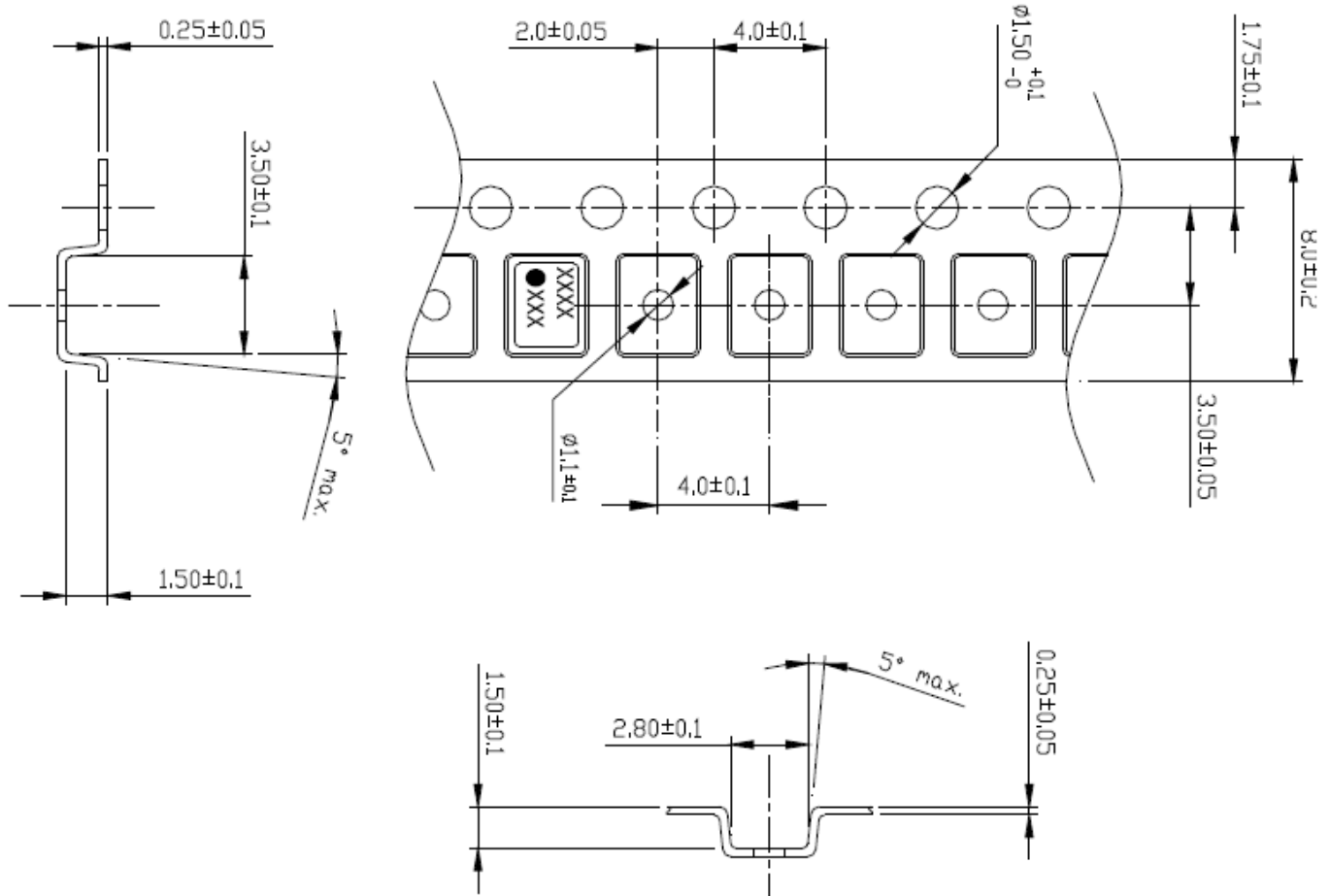


4. Reflow Soldering Curve (RoHS)





5. Package: Tape & Reel (mm)



1. Clearance of an embossing tape, and a product unit: mm

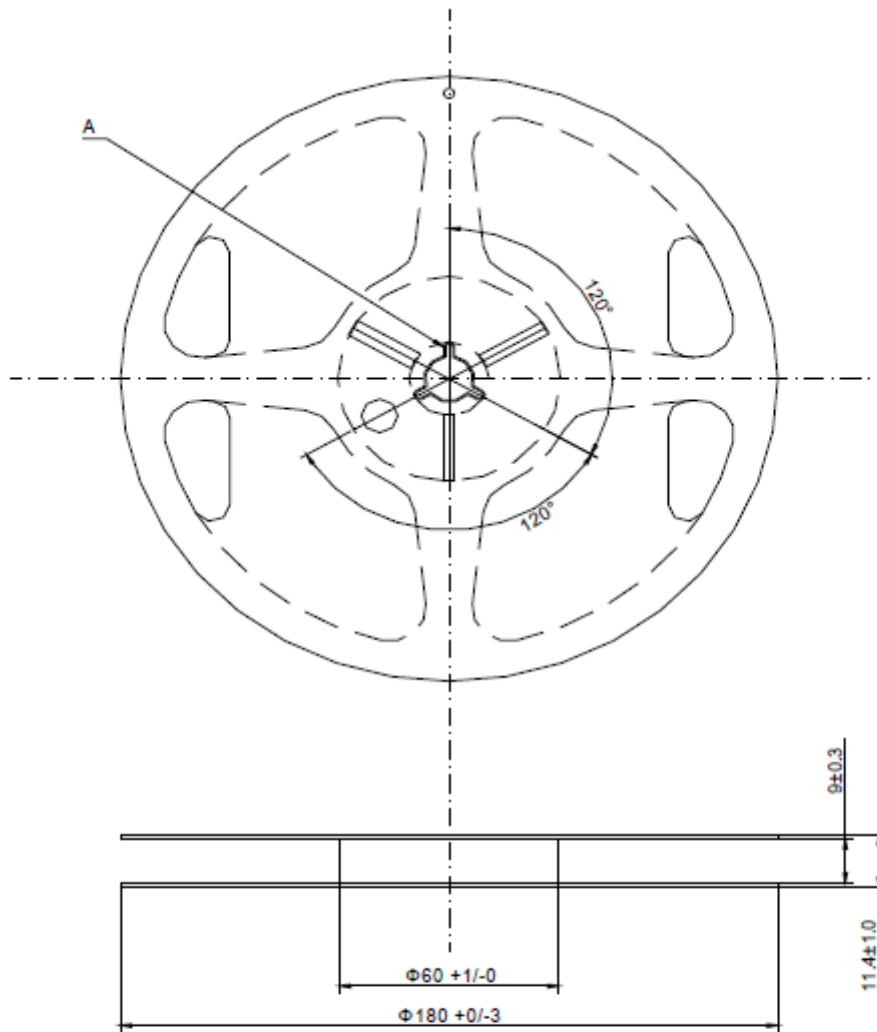
Direction	Pocket size	TCXO size	Clearance
L	3.5 ± 0.1	3.2 ± 0.15	0.3 ± 0.25
W	2.8 ± 0.1	2.5 ± 0.15	0.3 ± 0.25
H	1.5 ± 0.1	1.0 max.	0.5 min.

2. Quality : Polystyrene(Conductivity)

3. Tensile strength of an embossing tape : more than 14N



Taping:



Material:Polystyrene (Conductivity)
unit:mm

Section A

