

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

# DATASHEET

DAPU P/N:     **T53-L519-16.00MHz**    

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DAPU			Customer Approval
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2022.12.01			

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## 1. Electrical Parameters

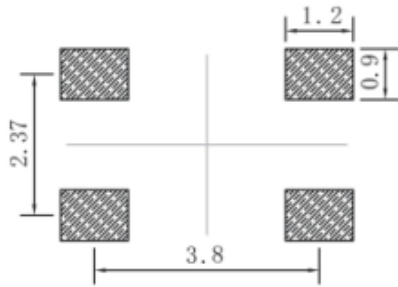
MODEL: T53-L519-16.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	16.00			MHz	
	Output Waveform	Clipped Sine Wave				
	Vp-p	0.8			V	
	Start Up Time		2	5	ms	Reach 90% amplitude at 25°C+/-2°C
	Load	10KΩ//10pF			pF	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-2.5		+2.5	× 10 <sup>-6</sup>	T <sub>A</sub> varied from -40°C to 85°C, measurement referenced to frequency observed with T <sub>A</sub> =25°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	× 10 <sup>-6</sup>	Measurement referenced to frequency observed with T <sub>A</sub> =25°C, V <sub>cc</sub> =3.0V within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-0.2		+0.2	× 10 <sup>-6</sup>	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	-0.2		+0.2	× 10 <sup>-6</sup>	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 .
	Aging Tolerance 1 Year	-1		+1	× 10 <sup>-6</sup>	T <sub>A</sub> =25°C, V <sub>cc</sub> =3.0V and after 1h of operation.
Power Supply	Operating Current			2	mA	@25°C, V <sub>cc</sub> =3.0V, O <sub>load</sub> =10KΩ//10pF .
	Supply Voltage	2.85	3.0	3.15	V	



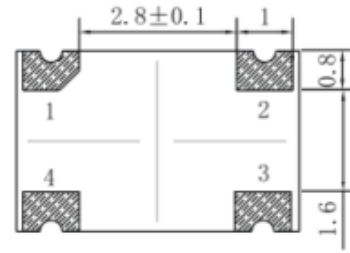
Phase Noise	Phase Noise @25°C		-80		dBc/Hz	10Hz
			-115			100Hz
			-135			1KHz
			-148			10KHz
			-148			100KHz
Environmental Conditions	Operable Temperature	-40		+85	°C	
	Storage Temperature	-55		+105	°C	
	ESD Level	Human Body Model,class2: 2000V to 4000V; ANSI/ESDA/JEDEC JS-001-2010.				
		Machine 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				



## 2. Mechanical Structure(mm)



Solder pad layout



Bottom view



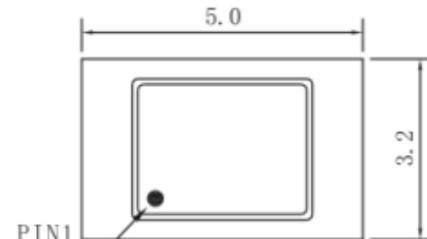
Right view



Side view

### PIN FUNCTION

PIN	NOTATION	FUNCTION
1	NC	Not Connect
2	GND	GND
3	OUTPUT	RF Output
4	VCC	Supply Voltage



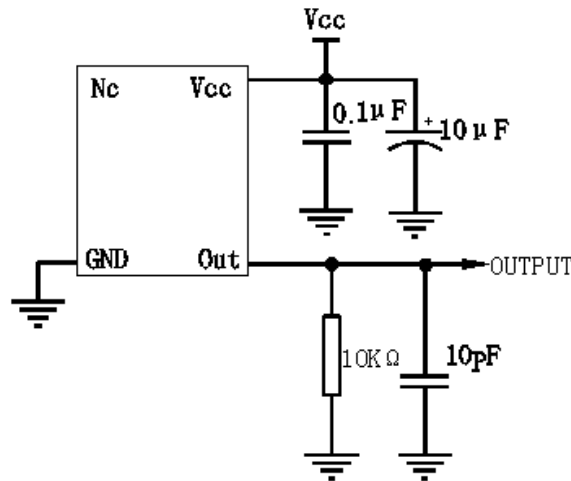
Top view

**Note1:** Tolerance  $\pm 0.20\text{mm}$  without mark

**Note2:** Referential Weight 0.05g

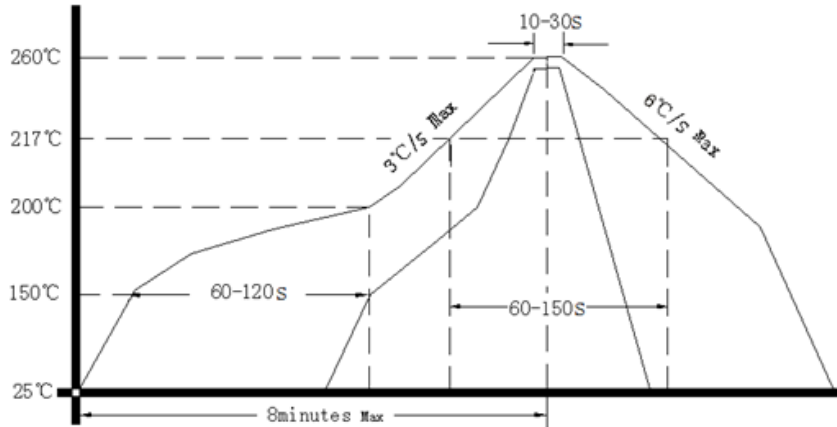
**Note3:** NC is not connect

## 3. Test Circuit





#### 4. Reflow Soldering Curve (RoHS)



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

