

Travelling Merchant: _____

DATASHEET

Standard: M11A-K819-10.00MHz

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

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1、Electrical Parameters

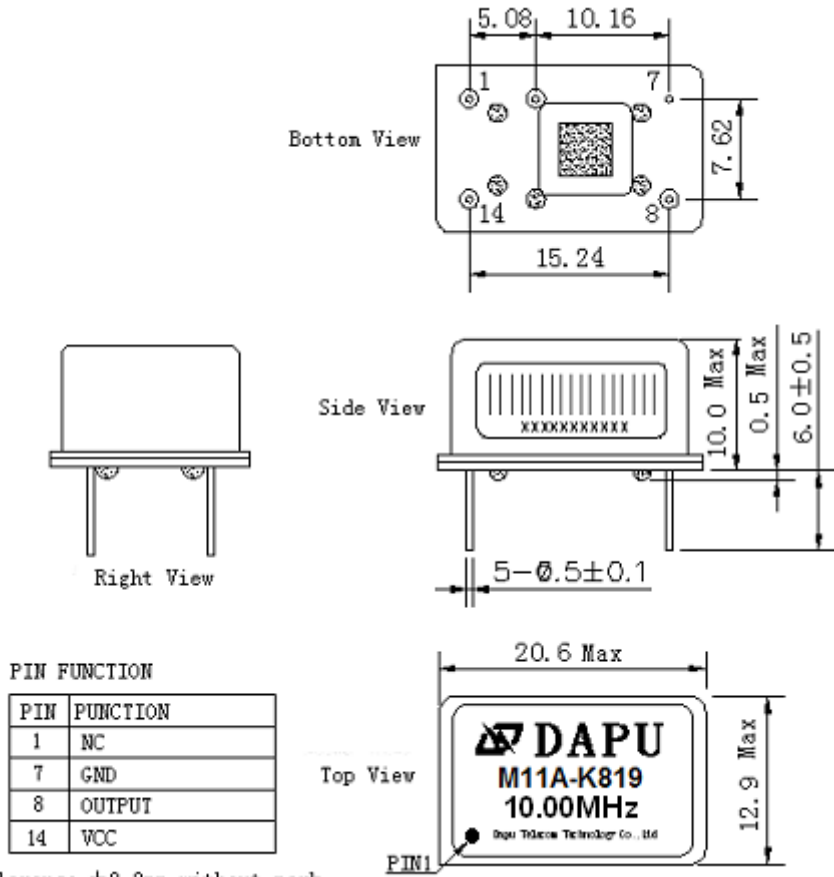
MODEL: M11A-K819-10.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	10.00			MHz	
	Output Waveform	LVCMOS				
	Duty Cycle	45	50	55	%	@50%
	Output Low Voltage			+0.4	V	V _{cc} =3.3V, O _{load} =15pF
	Output High Voltage	+2.7			V	V _{cc} =3.3V, O _{load} =15pF
	Rise / Fall Time			7	ns	10%~90%
	Load	15			pF	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.3		+0.3	ppm	T _A varied from-40℃ to85℃, measurement referenced to frequency observed with T _A = 25℃, V _{cc} =3.3V, O _{load} = 15pF
		-50		+50	ppm	T _A varied from-55℃ to105℃, measurement referenced to frequency observed with T _A = 25℃, V _{cc} =3.3V, O _{load} = 15pF
	Initial Frequency Tolerance	-0.1		+0.1	ppm	Measurement referenced to frequency observed with T _A =25℃, V _{cc} =3.3V, and after 15 minutes of operation, within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-0.05		+0.05	ppm	measurement referenced to frequency observed T _A =25℃, V _{cc} varied from 3.13V to 3.47V.
	Frequency Tolerance vs. Load	-0.05		+0.05	ppm	5% load change measurement referenced to frequency observed with T _A =25℃, V _{cc} =3.3V, and O _{Load} = 15pF.
	Aging Tolerance Per Day	-0.02		+0.02	ppm	V _{cc} , T _A constant measurement referenced to frequency observed with T _A = 25℃, V _{cc} = 3.3V, and after 30 days of operation.
	Aging Tolerance 1 Year	-1		+1	ppm	
Power Supply	Supply Voltage	3.13	3.3	3.47	V	
	Current Consumption		15		mA	@25℃, V _{cc} =3.3V, O _{load} =15pF



Phase Noise	Phase Noise		-88		dBc/Hz	10Hz
			-108			100Hz
			-130			1KHz
			-143			10KHz
			-145			100KHz
Environmental Conditions	Operable Temperature	-55		+105	°C	
	Storage Temperature	-55		+105	°C	
	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.				
	Drop	Test Condition: free drop on steel-made surface or rigid planes from a height of 100cm, IEC 68-2-32.				

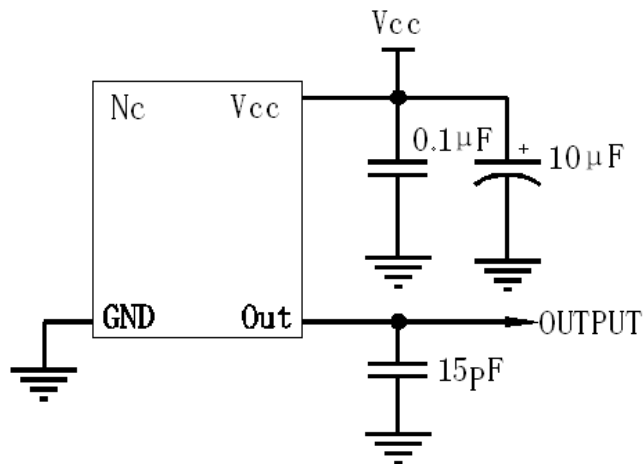


2、 Mechanical Structure(mm)



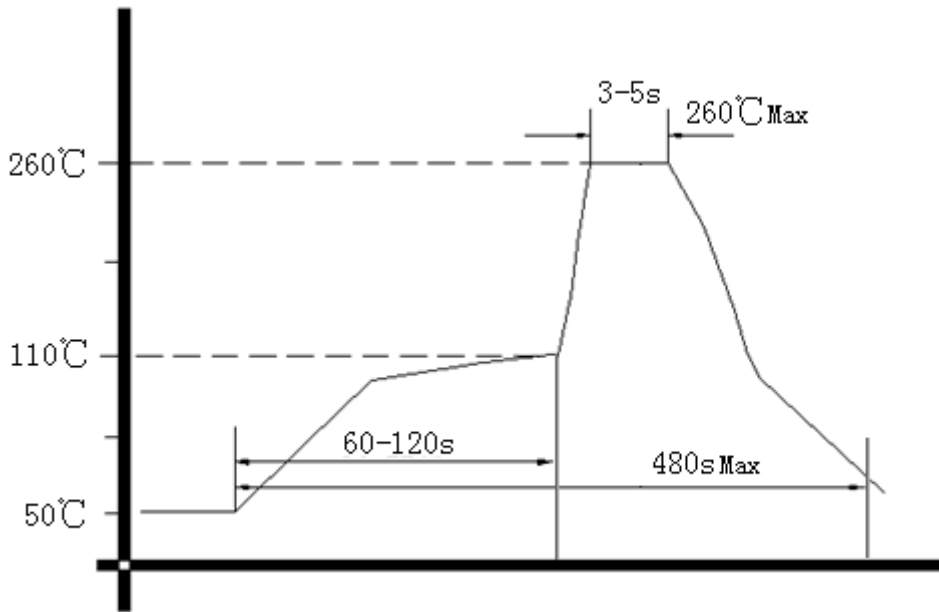
Note: Referential Weight 4.2g

3、 Test Circuit





4、 Wave Soldering Curve (RoHS)



5、 Package: PVC Tube,15pcs (mm)

