

Customer Code : _____

DATASHEET

DAPU P/N: M11A-D419-60.00MHz-S664

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DAPU			Customer Approval
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2022.09.14			

Guangdong Dapu Telecom Technology Co.,Ltd

Building 5, No.24, Industrial East Road, Songshanhu Park, Dongguan, Guangdong, P.R. China

TEL: 0086-0769-88010888 FAX: 0086-0769-81800098



Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	<i>Amway</i>	2022.09.01
1.1	The "Phase Noise" changed	<i>Amway</i>	2022.09.14



1. Electrical Parameters

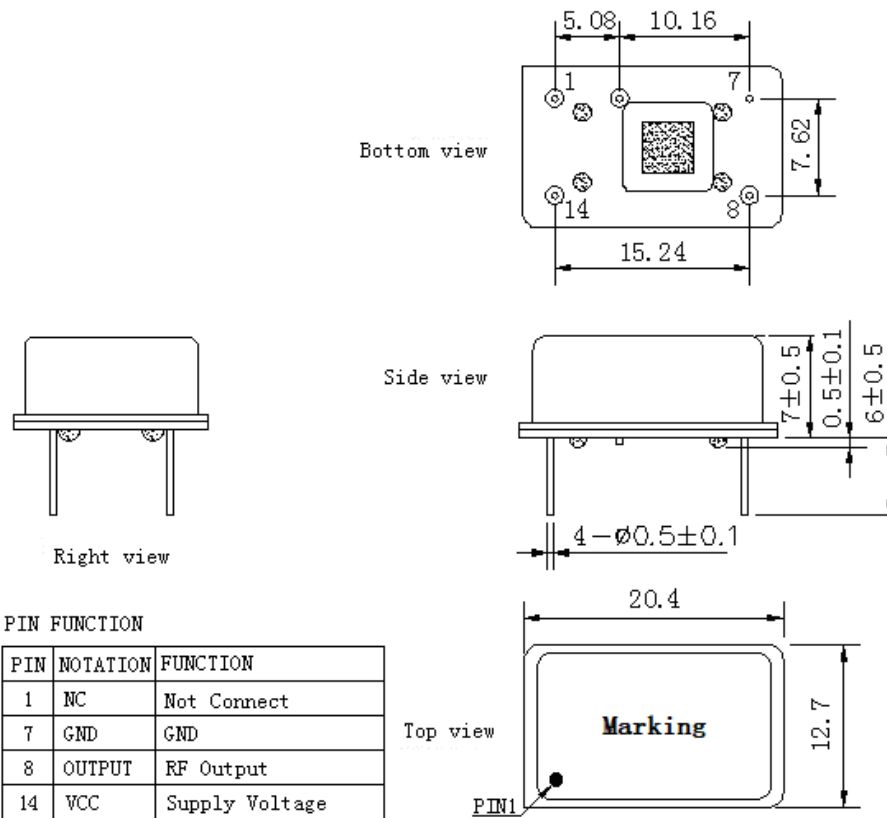
MODEL: M11A-D419-60.00MHz-S664						
Item	Parameters	Electrical Spec			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	60.00			MHz	
	Output Waveform	Sine Wave				
	Level	3	6		dBm	
	Harmonics Suppression			-30	dBc	
	Spurious Suppression			-70	dBc	
	Load	50			Ω	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-1		+1	$\times 10^{-6}$	T_A varied from -40°C to 95°C , measurement referenced to frequency observed with $f_{\text{ref}}=(f_{\text{max}}+f_{\text{min}})/2$, $V_{\text{cc}}=3.3\text{V}$, $O_{\text{load}}=50\Omega$, temperature variable speed less than 2°C per minute.
	Initial Frequency Tolerance	-1		+1	$\times 10^{-6}$	Measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$, $V_{\text{cc}}=3.3\text{V}$ within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-0.05		+0.05	$\times 10^{-6}$	measurement referenced to frequency observed $T_A=25^{\circ}\text{C}$, V_{cc} varied from 3.13V to 3.47V, and $O_{\text{Load}}=50\Omega$.
	Frequency Tolerance vs. Load	-0.05		+0.05	$\times 10^{-6}$	5% load change measurement referenced to frequency observed with $T_A=25^{\circ}\text{C}$, $V_{\text{cc}}=3.3\text{V}$, $O_{\text{Load}}=50\Omega$.
	Total Frequency Tolerance	-4.6		+4.6	$\times 10^{-6}$	Includes 20 years aging
Power Supply	Current Consumption		15		mA	@ 25°C , $V_{\text{cc}}=3.3\text{V}$, $O_{\text{load}}=50\Omega$.
	Supply Voltage	3.13	3.3	3.47	V	
Phase Noise	Phase Noise @ 25°C		-78		dBc/Hz	10Hz
			-109			100 Hz
			-132			1KHz
			-145			10KHz
			-150			100KHz
			-150			1MHz



Environmental Conditions	Operable Temperature	-40		+95	°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	Not humidity sensitive.				
	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				

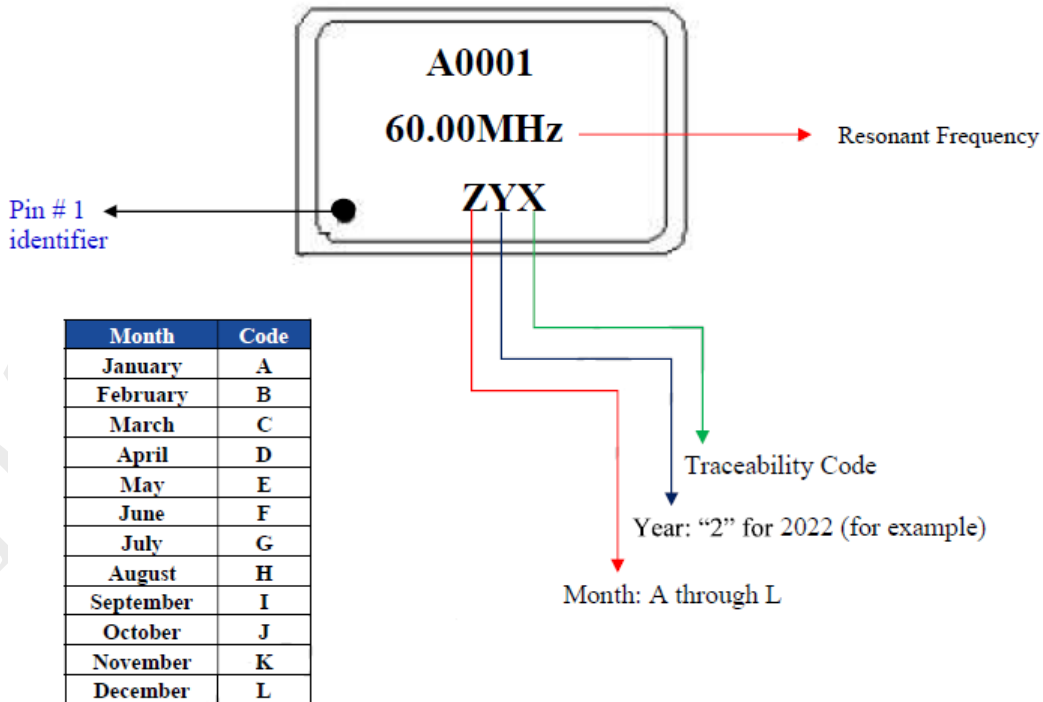


2. Mechanical Structure(mm)



PIN FUNCTION

PIN	NOTATION	FUNCTION
1	NC	Not Connect
7	GND	GND
8	OUTPUT	RF Output
14	VCC	Supply Voltage

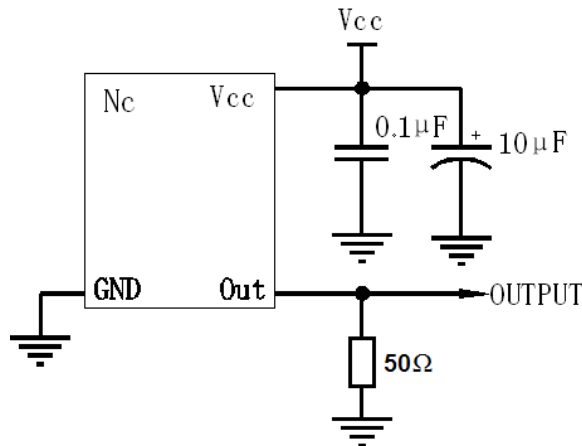


Note1: Tolerance ±0.20mm without mark

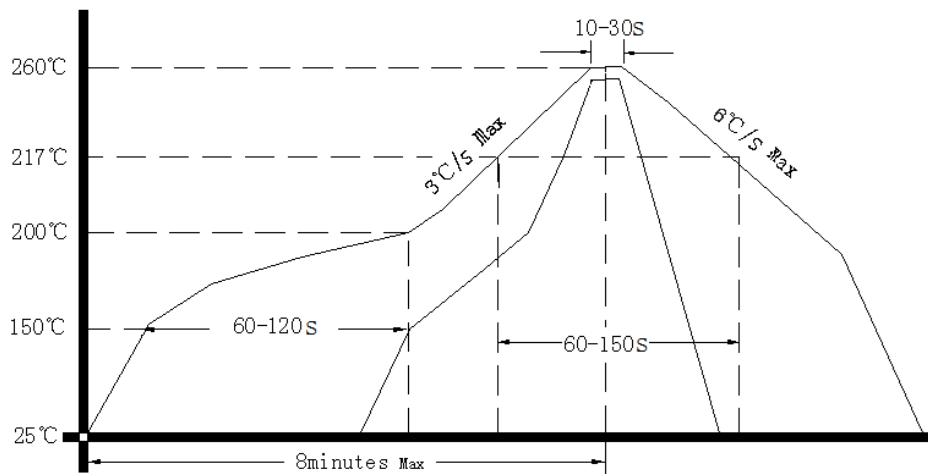
Note2: Referential weight 4.2g



3. Test circuit



4. Reflow Soldering Curve (RoHS)



5. Package: PVC Tube,10pcs (mm)

