Travelling Merchant:_____

DATASHEET

Standard: **M11A-K419-40.00MHz**

P/N: **MC-0442**

Plot			The Label
Drew	Audited	Approved	
Amway.wei	Jerry.Yue	James.Liu	
Date: 2014.09.05			Stamp, please! Thanks!

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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	Amway	2011.11.30
1.1	"Phase Noise" and "Mechanical Structure" change	Amway	2014.09.05

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1. Electrical Parameters

MODEL： M11A-K419-40.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		40.00		MHz	
	Output Waveform		Sine Wave			
	Level	5			dBm	
	Harmonics Suppression			-30	dBc	
	Spurious Suppression			-60	dBc	
	Load		50		Ω	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.28		+0.28	$\times 10^{-6}$	T_A varied from-40℃ to 85℃,measurement referenced to frequency observed with T_A = 25℃, V_{cc}=3.3V, $O_{load=}$50Ω, temperature variable speed less than 2℃per minute.
	Initial Frequency Tolerance	-0.5		+0.5	$\times 10^{-6}$	Measurement referenced to frequency observed with T_A = 25℃, V_{cc}=3.3V within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-0.1		+0.1	$\times 10^{-6}$	measurement referenced to frequency observed T_A=25℃, V_{cc} varied from 3.13V to 3.47V, and O_{Load}=50Ω.
	Frequency Tolerance vs. Load	-0.1		+0.1	$\times 10^{-6}$	5% load change measurement referenced to frequency observed with T_A= 25℃, V_{cc}=3.3V, O_{Load}=50Ω.
	Aging Tolerance Per Day	-0.02		+0.02	$\times 10^{-6}$	T_A=25℃, V_{cc}=3.3V, and after 1h of operation.
	Aging Tolerance 1 Year	-1		+1	$\times 10^{-6}$	
Power Supply	Current Consumption			30	mA	@25℃, V_{cc}=3.3V, O_{load}=50Ω.
	Supply Voltage	3.13	3.3	3.47	V	

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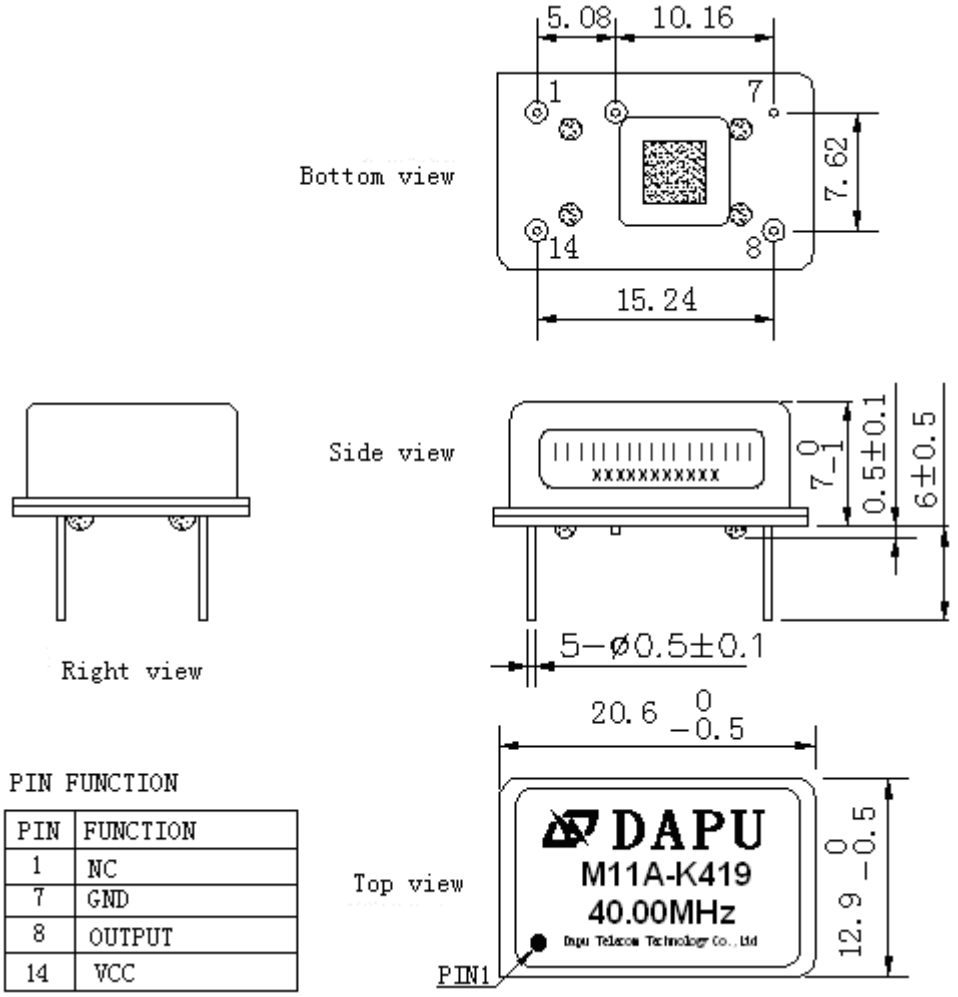
Phase Noise	Phase Noise		-85	-75	dBc/Hz	10Hz
			-100	-95		100Hz
			-120	-115		1KHz
			-130	-125		10KHz
			-130	-125		100KHz
			-130	-125		1MHz
Environmental Conditions	Operable Temperature	-40		+85	℃	
	Storage Temperature	-55		+105	℃	
	ESD Level	Human Body Model, class2: 2000V to 4000V; ANSI/ESDA/JEDEC JS-001-2010.				
		Machine Model, class B: 200V to 400V; ANSI/ESDA/JEDEC JS-001-2010.				
	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.				

2. Mechanical Structure(mm)



PIN FUNCTION

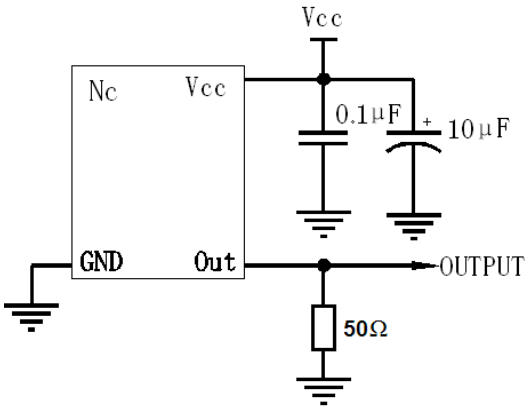
PIN	FUNCTION
1	NC
7	GND
8	OUTPUT
14	VCC

Note1: Tolerance ±0.2mm without mark

Note2: Referential Weight 4.2g

Note3: NC is not connect

3. Test circuit



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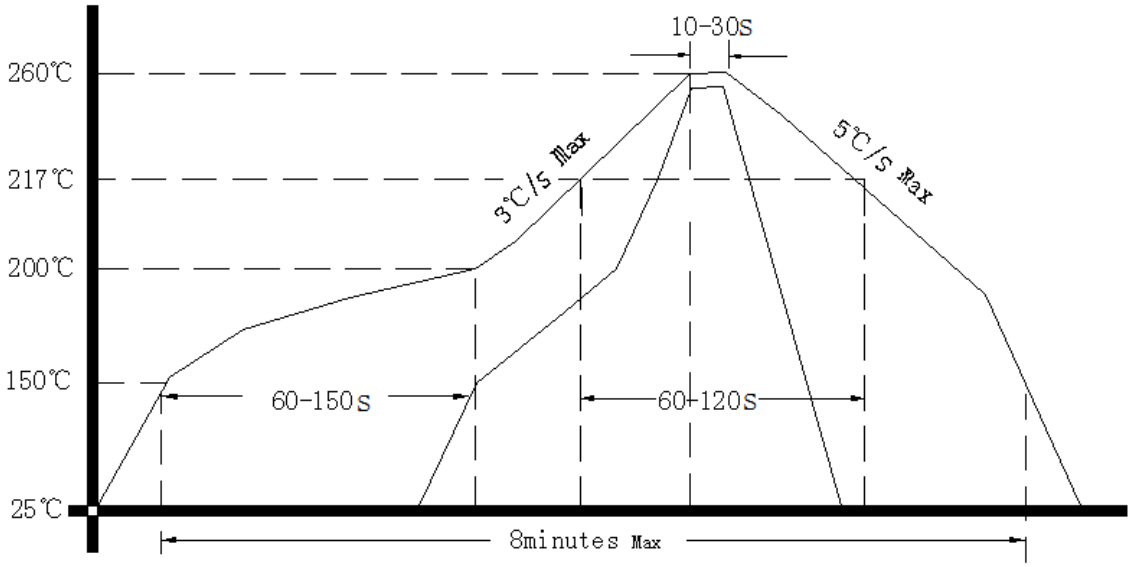
4. Reflow Soldering Curve (RoHS)



5. Package: PVC Tube,10pcs（mm）