Travelling Merchant:_____

DATASHEET

Standard: **M21D-J429-9.60MHz**

P/N: _____

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Amway.wei	Jerry.Yue	James.Liu	
Date: 2012.03.10			

Guangdong Dapu Telecom Technology Co.,Ltd

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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	Amway	2012.03.10

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1. Electrical Parameters

MODEL： M21D-J429-9.60MHz

Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		9.60		MHz	
	Output Waveform		Sine Wave			
	Vp-p	2.0			V	
	2 Sub-harmonics		-50		dBc	
	3 Sub-harmonics		-50		dBc	
	4 Sub-harmonics		-50		dBc	
	5 Sub-harmonics		-60		dBc	
	6 Sub-harmonics		-60		dBc	
	Spurious Suppression		-90		dBc	
	Load		300		Ω	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.14		+0.14	$\times 10^{-6}$	T_A varied from-40℃ to 80℃,measurement referenced to frequency observed with T_A = 25℃, V_{cc}=5.0V, $O_{load=}$300Ω, temperature variable speed less than 2℃per minute.
	Initial Frequency Tolerance	-0.15		+0.15	$\times 10^{-6}$	Measurement referenced to frequency observed with T_A=25℃, V_{cc}=5.0V within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-0.14		+0.14	$\times 10^{-6}$	measurement referenced to frequency observed T_A=25℃, V_{cc} varied from 4.75V to 5.25V, and O_{Load}=300Ω.
	Frequency Tolerance vs. Load	-0.14		+0.14	$\times 10^{-6}$	5% load change measurement referenced to frequency observed with T_A= 25℃, V_{cc}=5.0V, O_{Load}=300Ω.
	Aging Tolerance Per Day	-3		+3	$\times 10^{-9}$	T_A=25℃, V_{cc}=5.0V, and after 1h of operation.
	Aging Tolerance 1 Year	-0.3		+0.3	$\times 10^{-6}$	
	Aging Tolerance 5 Years	-0.8		+0.8	$\times 10^{-6}$	

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Power Supply	Current Consumption			8	mA	@25℃, V_{cc}=5.0V, O_{load}=300Ω.
	Supply Voltage	4.75	5.0	5.25	V	
Mechanical Adjust	Frequency Adjust Range			-2	$\times 10^{-6}$	
		+2			$\times 10^{-6}$	
Phase Noise	Phase Noise		-95	-90	dBc/Hz	10Hz
			-125	-120		100Hz
			-138	-133		1KHz
			-150	-145		10KHz
			-155	-150		100KHz
			-155	-150		1MHz
Environmental Conditions	Operable Temperature	-40		+80	℃	
	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	Level 2.				
	Vibration	Test Condition: 0.75mm ;acceleration:10g;10Hz～500Hz～10Hz, test 1 hour. (in 3 directions X ,Y , Z), GJB 360B-2009 Test Ea 204.				
	Shock	100g; 6ms; half sine wave (3 times for each 3 directions X ,Y, Z), GJB 360B-2009 Test Ea 213				

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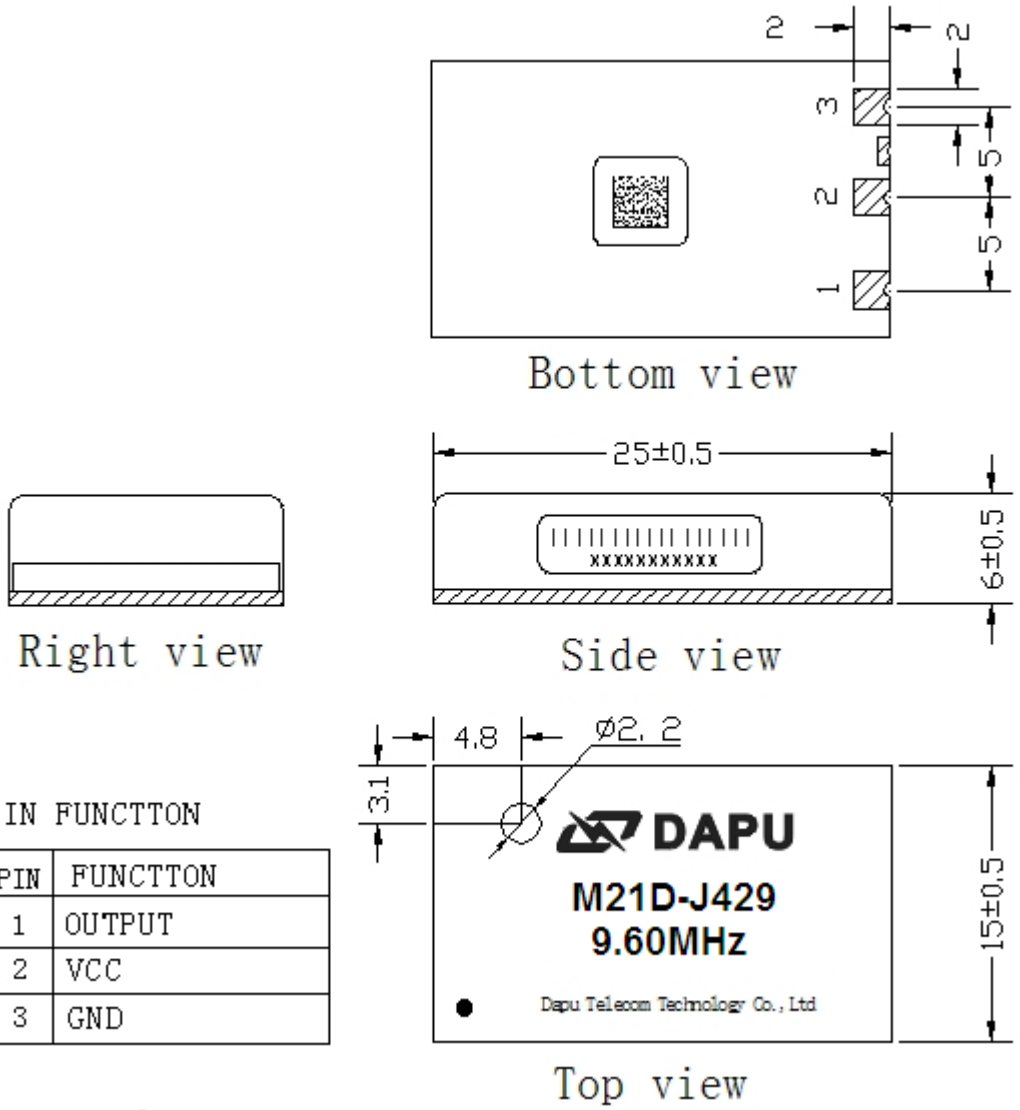
2. Mechanical Structure(mm)

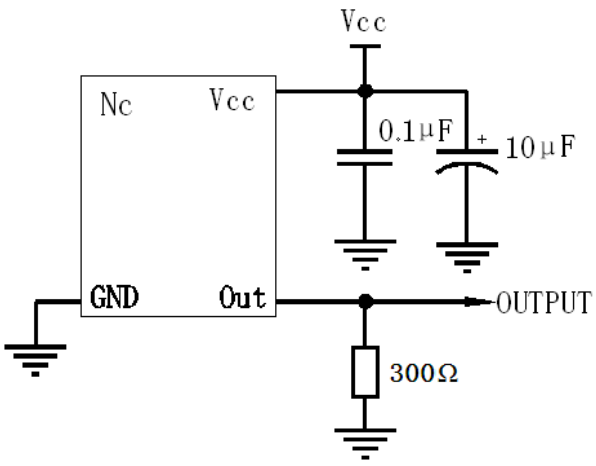


PIN FUNCTTON

PIN	FUNCTTON
1	OUTPUT
2	VCC
3	GND

Note: Tolerance ±0.2mm without mark

3. Test circuit



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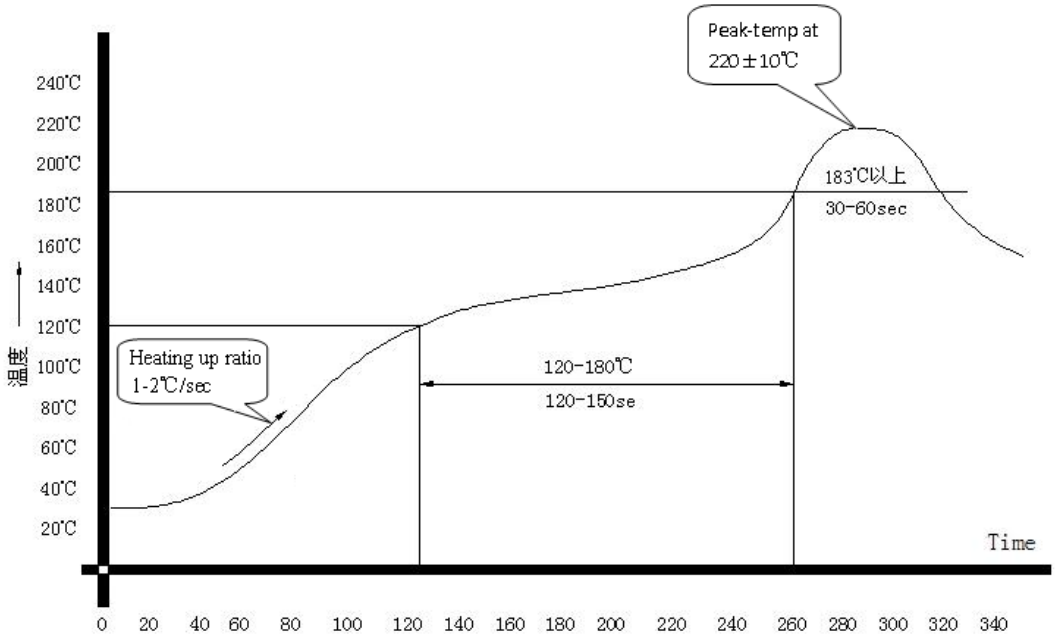
4. Reflow Soldering Curve



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