Travelling Merchant:_____

DATASHEET

Standard: **T11B-A327-131.04MHz**

P/N: _____

Plot			The Label
Drew	Audited	Approved	
Amway.wei	Carry.Wang	James.Liu	
Date: 2018.08.28			Stamp, please! Thanks!

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	2018.08.28

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1. Electrical Parameters

MODEL： T11B-A327-131.04MHz

Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		131.04		MHz	
	Output Waveform		HCMOS			
	Output Low Voltage			0.33	V	V_{cc}=5.0V, O_{load}=15 pF
	Output High Voltage	2.97			V	V_{cc}=5.0V, O_{load}=15 pF
	Duty Cycle	40	50	60	%	@50%
	Rise / Fall Time （10%~90%）			2	ns	@25℃
	Load		15		pF	
	Start-up time			10	ms	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-30		+30	$\times 10^{-6}$	T_A varied from-40℃ to 85℃, measurement referenced to frequency observed with T_A = 25℃, V_{cc}= 5.0V, V_c=1.65V, $O_{load=}$ 15pF, temperature variable speed less than 2℃per minute.
	Initial Frequency Tolerance	-15		+15	$\times 10^{-6}$	Measurement referenced to frequency observed with T_A = 25℃, V_{cc}= 5.0V, V_c=1.65V within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-5		+5	$\times 10^{-6}$	measurement referenced to frequency observed T_A=25℃, V_{cc} varied from4.75V to 5.25V, V_c=1.65V and O_{Load}= 15pF.
	Frequency Tolerance vs. Load	-3		+3	$\times 10^{-6}$	5% load change measurement referenced to frequency observed with T_A= 25℃, V_{cc}=5.0V, V_c=1.65V, O_{Load}= 15pF.
	Aging Tolerance 1 Year	-5		+5	$\times 10^{-6}$	T_A=25℃, V_{cc}=5.0V, V_c=1.65V and after 1h of operation.
Power Supply	Current Consumption			35	mA	@25℃, V_{cc}=5.0V, V_c=1.65V, O_{load}=15pF.
	Supply Voltage	4.75	5.0	5.25	V	

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Voltage Control Characteristics	Frequency Tuning Range			-80	$\times 10^{-6}$	V_c=0V. measurement referenced to V_c=1.65V
		-15		+15	$\times 10^{-6}$	V_c=1.65V. measurement referenced to exactly 131.04MHz
		+80			$\times 10^{-6}$	V_c=3.3V. measurement referenced to V_c=1.65V
	Linearity			10	%	
	Slope	Positive				
	Input Impedance	1			MΩ	
Phase Noise	Phase Noise			-150	dBc/Hz	100KHz
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.				
Full Package Storage	Relative humidity(%)	20%~70%				
	Temperature(℃)	-10~35℃				

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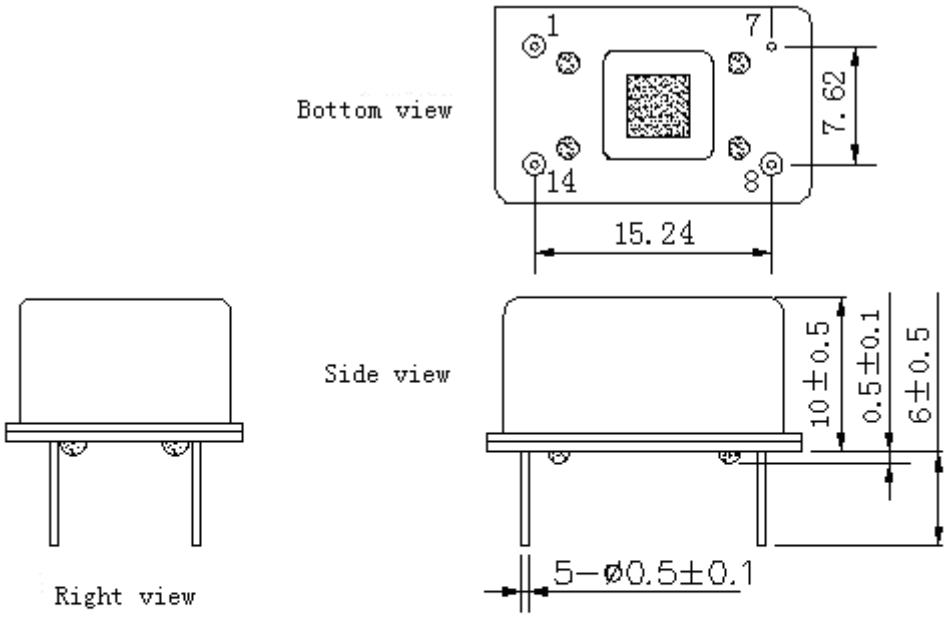
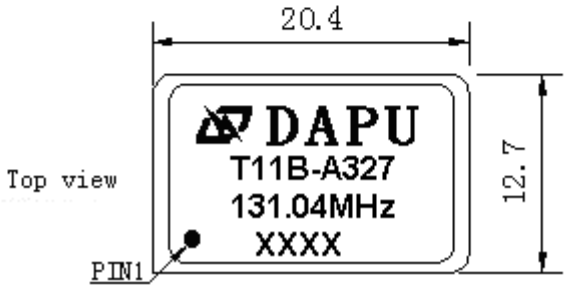
2. Mechanical Structure(mm)



PIN FUNCTION

PIN	FUNCTION
1	VC
7	GND
8	OUTPUT
14	VCC



Note1: Tolerance ±0.2mm without mark

Note2: Referential weight 4.2g

Note3: NC is not connect

Note4: The first two xx representative: week
After two xx representative: year

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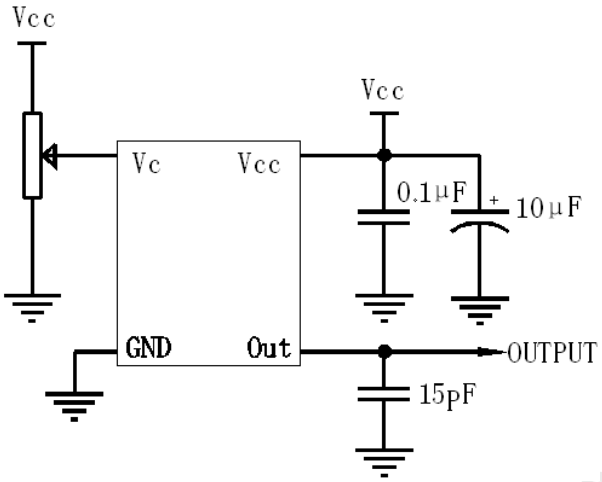
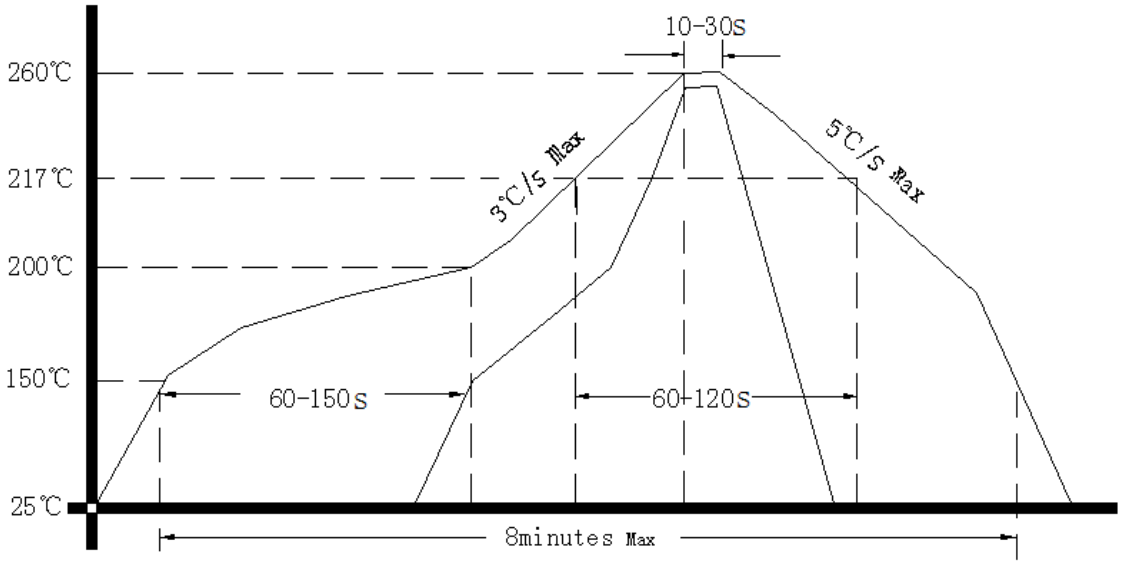
3. Test circuit



4. Reflow Soldering Curve (RoHS)



5. Package: Tape & Reel (mm)