Travelling Merchant:_____

DATASHEET

Standard: **T936-E411-100.00MHz**

P/N: _____

Plot			The Label
Drew	Audited	Approved	
Amway.wei	Carry.Wang	James.Liu	
Date: 2018.01.08			Stamp, please! Thanks!

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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	Amway	2016.06.03
1.1	The “Phase Noise”, “Mechanical Structure” and “Package” changed	Amway	2018.01.08

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1. Electrical Parameters

MODEL： T936-E411-100.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		100.00		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	-1.0		+1.0	$\times 10^{-6}$	T_A varied from-20℃ to 70℃, measurement referenced to frequency observed with $f_{ref}= (f_{max}+f_{min})/2$, V_{cc}=3.3V, V_c=1.65V, $O_{load=}$50Ω, temperature variable speed less than 2℃per minute.
	Initial Frequency Tolerance	-1.0		+1.0	$\times 10^{-6}$	Measurement referenced to frequency observed with T_A=25℃, V_{cc}=3.3V, V_c=1.65V,and after 15 minutes of operation, within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-0.2		+0.2	$\times 10^{-6}$	measurement referenced to frequency observed T_A=25℃, V_{cc} varied from 3.13V to 3.47V, V_c =1.65V, and O_{Load}=50Ω.
	Frequency Tolerance vs. Load	-0.2		+0.2	$\times 10^{-6}$	5% load change measurement referenced to frequency observed with T_A=25℃, V_{cc}=3.3V, V_c=1.65V, O_{Load}=50Ω.
	Aging Tolerance Per Day	-0.02		+0.02	$\times 10^{-6}$	T_A=25℃, V_{cc}=5.0V, V_c=2.5V 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	@25℃

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Voltage Control Characteristics	Frequency Tuning Range			-5.0	$\times 10^{-6}$	V_c=0V. measurement referenced to V_c=1.65V
		-1		+1	$\times 10^{-6}$	V_c=1.65V. measurement referenced to exactly 100.00MHz
		+5.0			$\times 10^{-6}$	V_c=3.3V. measurement referenced to V_c=1.65
	Linearity			10	%	
	Slope	Positive				
	Input Impedance	100			KΩ	
Phase Noise	Phase Noise		-75	-70	dBc/Hz	10Hz
			-105	-100		100Hz
			-135	-130		1KHz
			-150	-145		10KHz
			-155	-150		100KHz
			-158	-153		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	Level 2.				
	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.				

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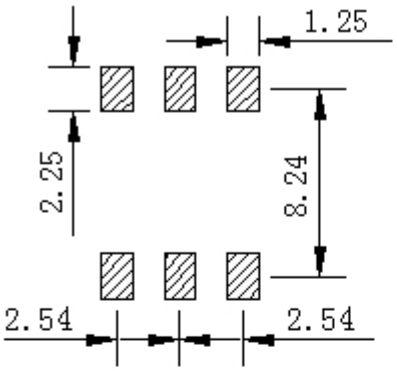
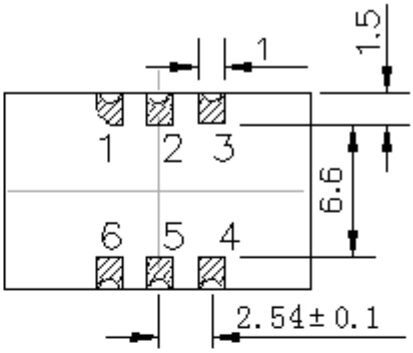
2. Mechanical Structure(mm)

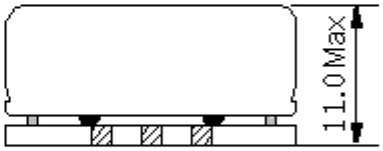


Solder Pad layout



Bottom view

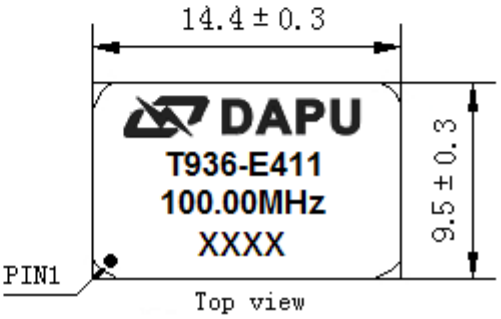

Right view



Side view

PIN FUNCTION

PIN	NOTATION	FUNCTION
1	VC	Control Voltage
2,5	NC	Not Connect
3	GND	GND
4	OUTPUT	RF Output
6	VCC	Supply Voltage



Top view

Note1: Tolerance ±0.2mm without mark

Note2: Referential weight 2.2g

Note3: NC is not connect

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

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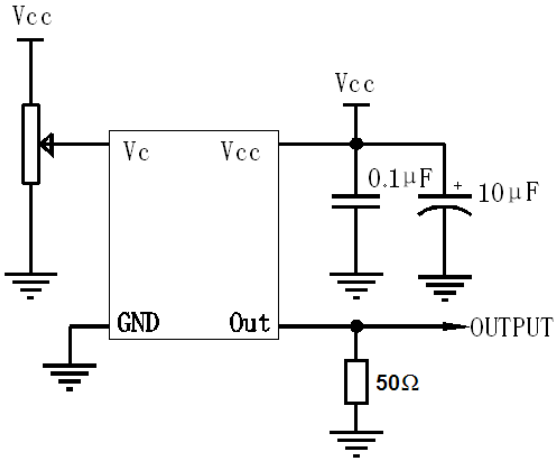
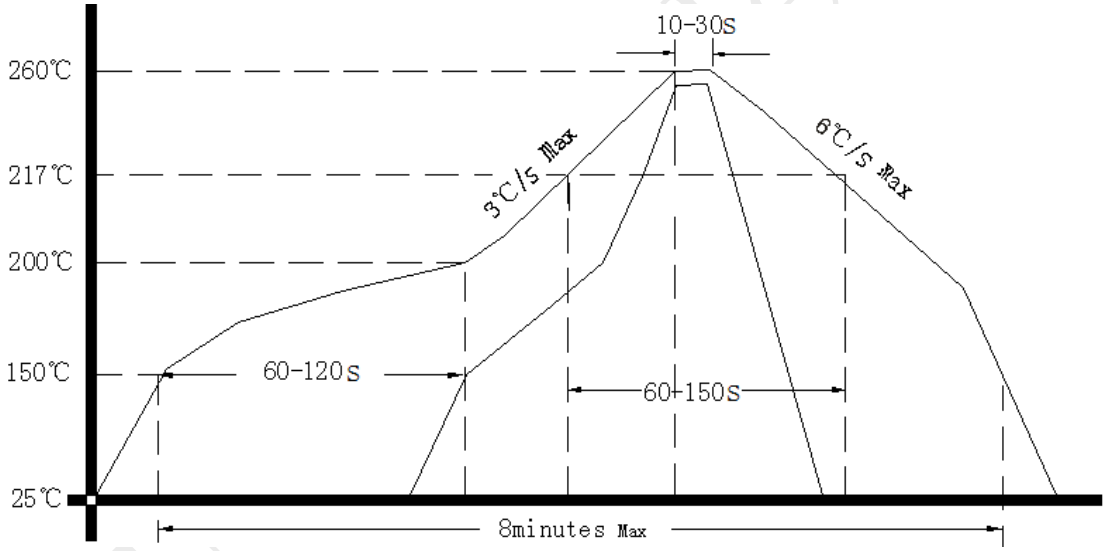
3. Test circuit



4. Reflow Soldering Curve (RoHS)



5. Package: Tape & Reel (mm)