

Travelling Merchant: \_\_\_\_\_

# DATASHEET

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

P/N: \_\_\_\_\_

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date: 2016.06.03			

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**Table of amendment**

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	<i>Amway</i>	2016.06.03

DAPU Confidential



## 1. Electrical Parameters

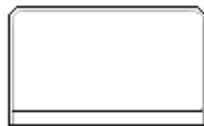
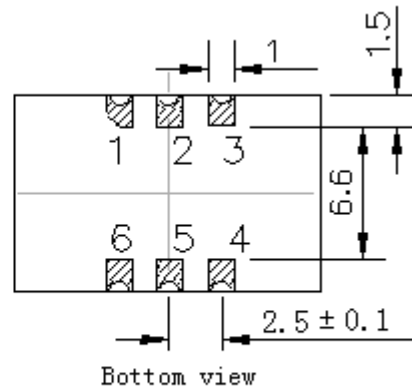
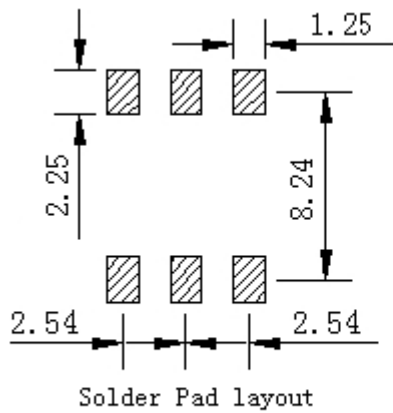
MODEL: T936-E411-100.00MHZ						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	100.00			MHz	
	Output Waveform	Sine wave				
	Level	5			dBm	
	Load	50			$\Omega$	
	Harmonics Suppression			-30	dBc	
	Spurious Suppression			-60	dBc	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-1.0		+1.0	$\times 10^{-6}$	$T_A$ varied from $-20^\circ\text{C}$ to $70^\circ\text{C}$ , measurement referenced to frequency observed with $f_{\text{ref}} = (f_{\text{max}} + f_{\text{min}})/2$ , $V_{\text{cc}} = 3.3\text{V}$ , $V_c = 1.65\text{V}$ , $O_{\text{load}} = 50\ \Omega$ , temperature variable speed less Than $2^\circ\text{C}$ per minute.
	Initial Frequency Tolerance	-1.0		+1.0	$\times 10^{-6}$	Measurement referenced to frequency observed with $T_A = 25^\circ\text{C}$ , $V_{\text{cc}} = 3.3\text{V}$ , $V_c = 1.65\text{V}$ , 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 $T_A = 25^\circ\text{C}$ , $V_{\text{cc}}$ varied from 3.13V to 3.47V, $V_c = 1.65\text{V}$ and $O_{\text{load}} = 50\ \Omega$ .
	Frequency Tolerance vs. Load	-0.2		+0.2	$\times 10^{-6}$	5% Load Change Measurement referenced to frequency observed with $T_A = 25^\circ\text{C}$ , $V_{\text{cc}} = 3.3\text{V}$ , $V_c = 1.65\text{V}$ and $O_{\text{load}} = 50\ \Omega$ .
	Aging Tolerance per day	-0.02		+0.02	$\times 10^{-6}$	$T_A = 25^\circ\text{C}$ , $V_{\text{cc}} = 3.3\text{V}$ , $V_c = 1.65\text{V}$ , and after 1h of operation.
Aging Tolerance 1Year	-1		+1	$\times 10^{-6}$		
Power Supply	Current Consumption			30	mA	@ $25^\circ\text{C}$ , $V_{\text{cc}} = 3.3\text{V}$ , $O_{\text{load}} = 50\ \Omega$ .
	Supply Voltage	3.13	3.3	3.47	V	@ $25^\circ\text{C}$



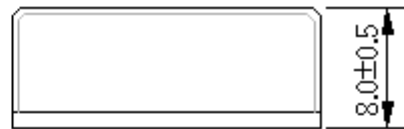
Voltage Control Characteristics	Frequency Tuning Range			-5.0	$\times 10^{-6}$	$V_c=0V$ . measurement referenced to $V_c=1.65V$ .
		-1.0		+1.0	$\times 10^{-6}$	$V_c=1.65V$ . measurement referenced to exactly 100.00MHz.
		+5.0			$\times 10^{-6}$	$V_c=3.3V$ . measurement referenced to $V_c=1.65V$ .
	Linearity			10	%	
	Slope	Positive				
	Input Impedance	100				K $\Omega$
Phase Noise	Phase Noise @25°C		-75	-70	dBc/Hz	10Hz
			-105	-100		100Hz
			-140	-135		1KHz
			-150	-145		10KHz
			-155	-150		100KHz
			-158	-153		1MHz
Environmental Conditions	Operable Temperature	-40		+85	°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; 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)



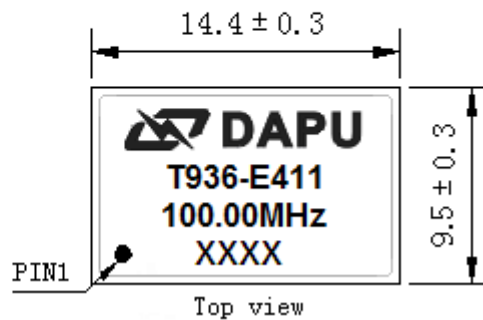
Right view



Side view

### PIN FUNCTION

PIN	FUNCTION
1	VC
2,5	NC
3	GND
4	OUTPUT
6	VCC



**Note1:** Tolerance  $\pm 0.2\text{mm}$  without mark

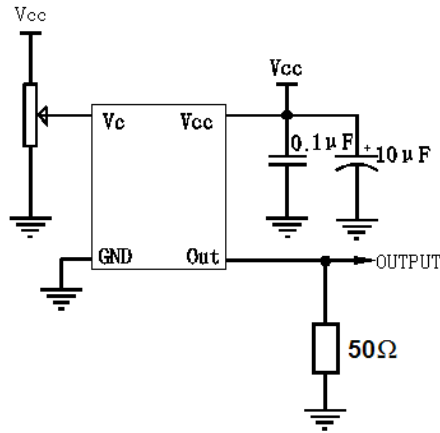
**Note2:** The first two xx representative: week  
After two xx representative: year

**Note3:** Referential Weight 1.5g

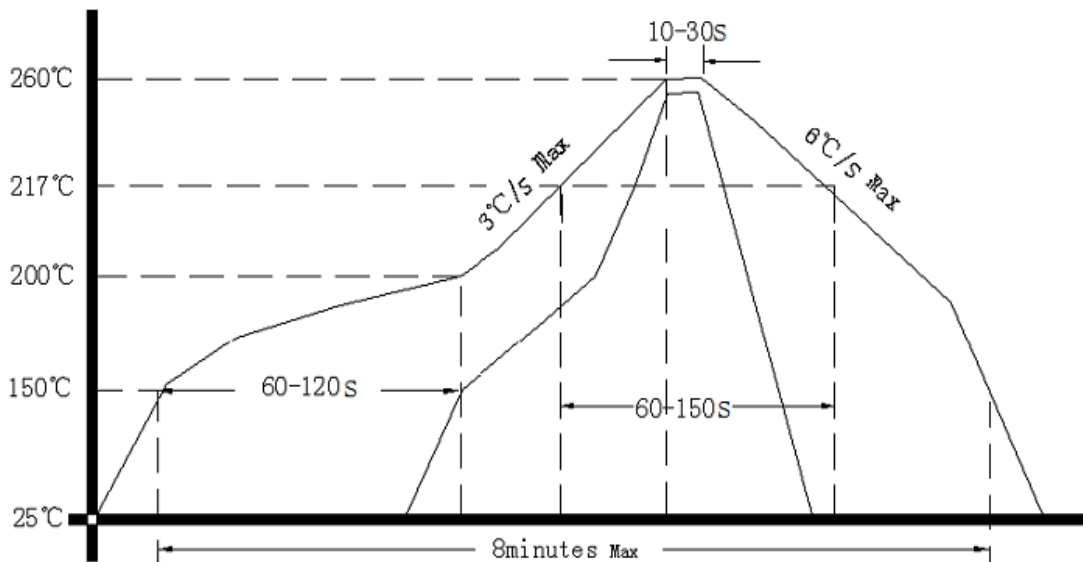
**Note4:** NC is not connect



### 3. Test Circuit



### 4. Reflow Soldering Curve (RoHS)



### 5. Package: Tape & Reel (mm)

