Customer Code : _____

DATASHEET

DAPU P/N: **T936-J001-100.00MHz**

Customer P/N: _____

DAPU			Customer Approval
Drew	Audited	Approved	Stamp, please! Thanks!
Amway.wei	Carry.Wang	James.Liu	
Date: 2016.09.02			

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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	Amway	2016.08.15
1.1	"Slope" changed	Amway	2016.09.02

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1. Electrical Parameters

MODEL： T936-J001-100.00MHz

Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		100.00		MHz	
	Output Waveform		Sine Wave			
	Level	7			dBm	
	Harmonics Suppression			-25	dBc	
	Spurious Suppression			-70	dBc	
	Load		50		Ω	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-1.0		+1.0	$\times 10^{-6}$	T_A varied from-40℃ to 80℃, measurement referenced to frequency observed with T_A=25℃, V_{cc}=5V, V_c=2.5V, 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}=5V, V_c=2.5V within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-0.5		+0.5	$\times 10^{-6}$	measurement referenced to frequency observed T_A=25℃, V_{cc} varied from 4.75V to 5.25V, V_c=2.5V and O_{Load}=50Ω.
	Frequency Tolerance vs. Load	-0.5		+0.5	$\times 10^{-6}$	5% load change measurement referenced to frequency observed with T_A=25℃, V_{cc}=5.0V, V_c=2.5V, 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}=5.0V, V_c=2.5V, O_{load}=50Ω.
	Supply Voltage	4.75	5.0	5.25	V	

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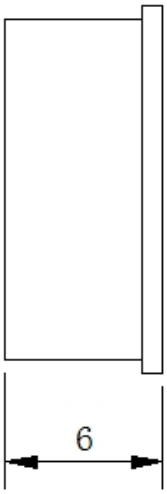
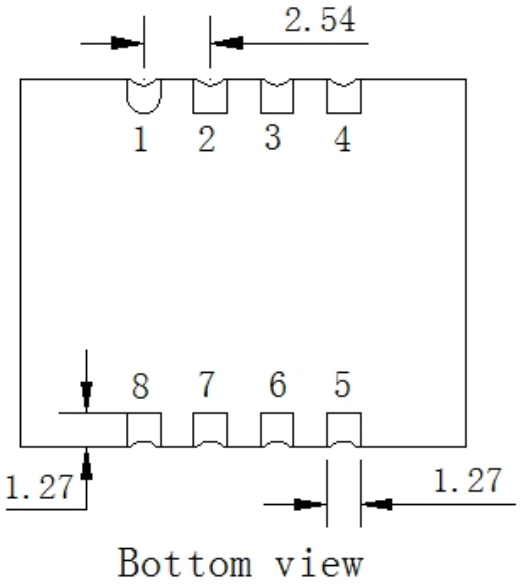
Voltage Control Characteristics	Frequency Tuning Range	+5			$\times 10^{-6}$	V_c=0V. measurement referenced to V_c=2.5V
		-1.0		+1.0	$\times 10^{-6}$	V_c=2.5V. measurement referenced to exactly 100.00MHz
				-5	$\times 10^{-6}$	V_c=5V. measurement referenced to V_c=2.5V
	Linearity			10	%	
	Slope	Negative				
	Input Impedance	100			KΩ	
Phase Noise	Phase Noise @25℃		-105	-100	dBc/Hz	100Hz
			-140	-135		1KHz
			-150	-145		10KHz
			-155	-150		100KHz
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	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 68-2009 Test Fc.				
	Shock	100g；6ms；half sine wave (3 times for each 3 directions X ,Y, Z),IEC 68-2009 Test Ea/Severity 50A.				
Full Package Storage	Relative humidity (%)	20%～70%				
	Temperature (℃)	-10~35℃				

2. Mechanical Structure(mm)

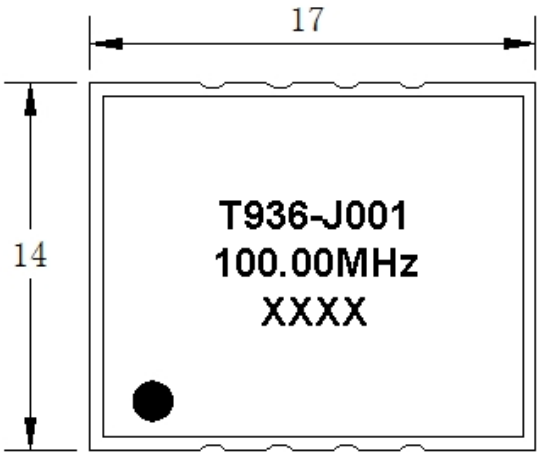




Bottom view

PIN FUNCTION

Pin	Function
1	V_S
2, 3, 4, 6	GND
5	RF
7	Vref
8	VC

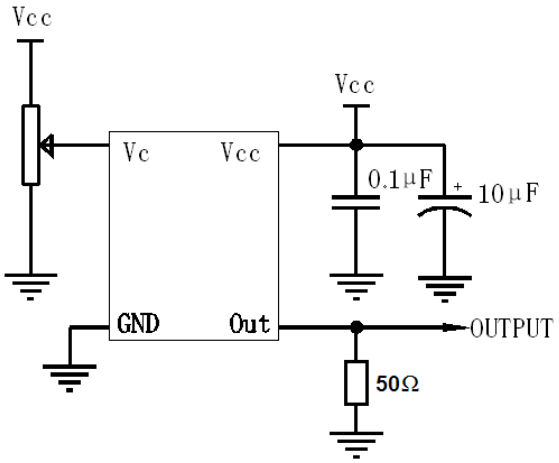


Top view

Note1: Tolerance ±0.20mm without mark

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

3. Test circuit



4. Reflow Soldering Curve (RoHS)