Travelling Merchant:_____

DATASHEET

Standard: **O23C-E447-100.00MHz**

P/N: _____

Plot			The Label
Drew	Audited	Approved	
Amway.wei	Carry . Wang	James.Liu	
Date: 2016.10.28			Stamp, please! Thanks!

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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	Amway	2011.07.12
1.1	"Mechanical Structure" and "Test Circuit" changed	Amway	2016.10.28

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1、Electrical Parameters

MODEL： O23C-E447-100.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		100.00		MHz	
	Output Waveform		Sine wave			
	Level	6		10	dBm	
	Load		50		Ω	
	Harmonics Suppression			-35	dBc	
	Spurious Suppression			-70	dBc	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.01		+0.01	$\times 10^{-6}$	T_A varied from -20℃ to70℃, measurement referenced to frequency observed with T_A = 25℃, V_{cc}=12.0V, V_c=2.5V, O_{load}=50Ω, temperature rise speed less than 2℃per minute.
	Initial Frequency Tolerance	-0.2		+0.2	$\times 10^{-6}$	Measurement referenced to frequency observed with T_A=25℃,V_{cc}=12.0V,V_c=2.5V and after 15 minutes of operation, within 30 days after ex-works.
	Frequency Tolerance vs. Supply Voltage	-5		+5	$\times 10^{-9}$	measurement referenced to frequency observed T_A=25℃, V_{cc} varied from 11.4V to 12.6V, V_c =2.5V, O_{load}=50Ω,
	Frequency Tolerance vs. Load	-5		+5	$\times 10^{-9}$	5% load change measurement referenced to frequency observed with T_A= 25℃, V_{cc}= 12.0V, V_c=2.5V and O_{Load}=50Ω.
	Short-Term Stability: Allan Variance			0.01	$\times 10^{-9}$	Temperature stability, no EMI\EMC or other interference，test after power for 1hour ref. to 25℃; 1s , using PN9000 equipment.
	Aging Tolerance Per Day	-1		+1	$\times 10^{-9}$	V_{cc}, V_c, T_A constant measurement referenced to frequency observed with T_A=25℃, V_{cc}= 12.0V, V_c =2.5V,and after 30 days of operation.
	Aging Tolerance 1 Year	-0.1		+0.1	$\times 10^{-6}$	
Power Supply	Supply Voltage	11.4	12.0	12.6	V	
	Current Consumption			200	mA	@25℃
	Current Consumption during warm up			500	mA	

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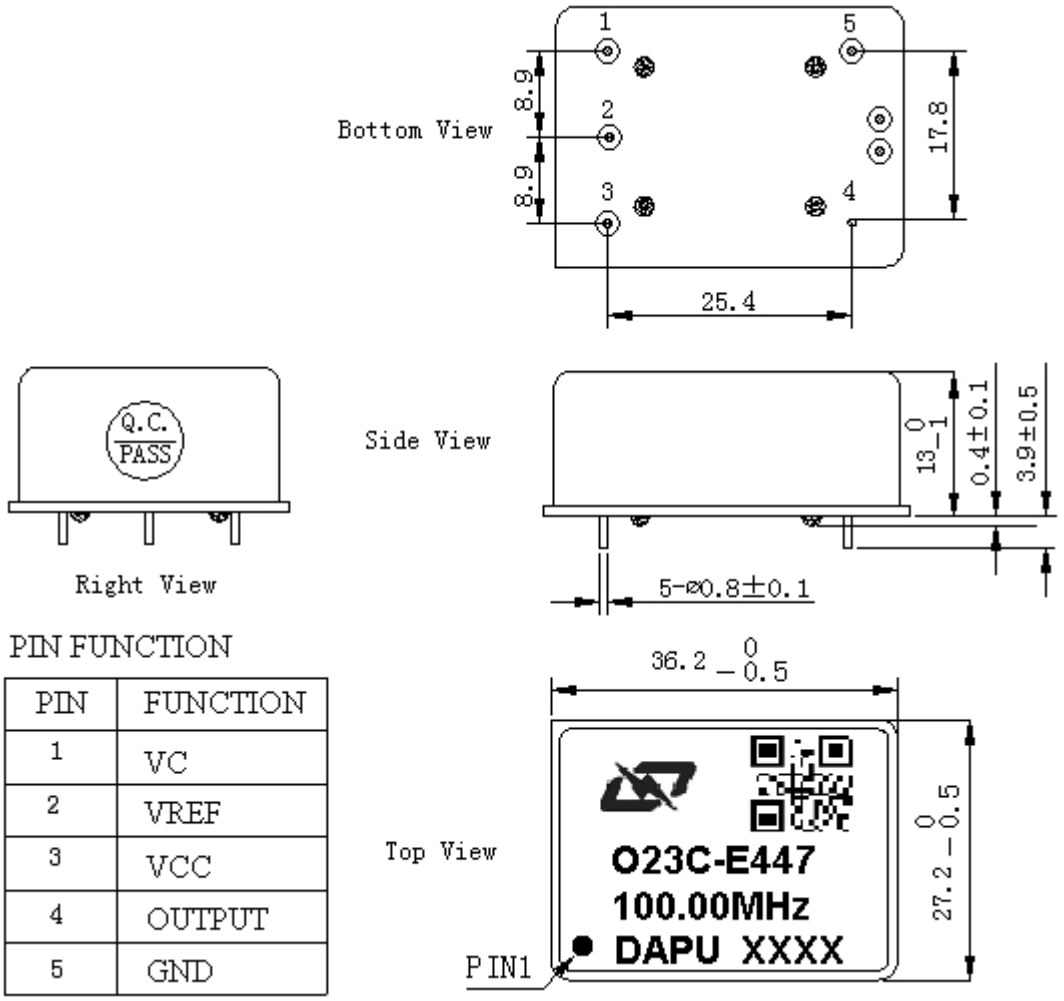
Voltage Control Characteristics	Frequency Tuning Range			-0.7	$\times 10^{-6}$	V_c=0 V. measurement referenced to V_c=2.5V
		-0.2		+0.2	$\times 10^{-6}$	V_c=2.5V. measurement referenced to exactly 100.00MHz
		+0.7			$\times 10^{-6}$	V_c=5.0V. measurement referenced to V_c=2.5V
	Linearity			10	%	
	Slope	Positive				
	Input Impedance	100			KΩ	
Phase Noise	Phase Noise		-80		dBc/Hz	10Hz
			-120			100Hz
			-150			1KHz
			-152			10KHz
			-155			100KHz
Environmental Conditions	Operable Temperature	-20		+70	℃	
	Storage Temperature	-45		+85	℃	
	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～500Hz, one cycle per 30 min, test 2 hour. (3 times for each 3 directions X ,Y , Z), IEC 68-2-06 Test Fc.				
	Shock	50g; 11ms; 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℃				

2、Mechanical Structure(mm)



PIN FUNCTION

PIN	FUNCTION
1	VC
2	VREF
3	VCC
4	OUTPUT
5	GND

Note1: Tolerance ±0.2mm without mark

Note2: Referential Weight 22.6g

Note3: NC is not connect

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

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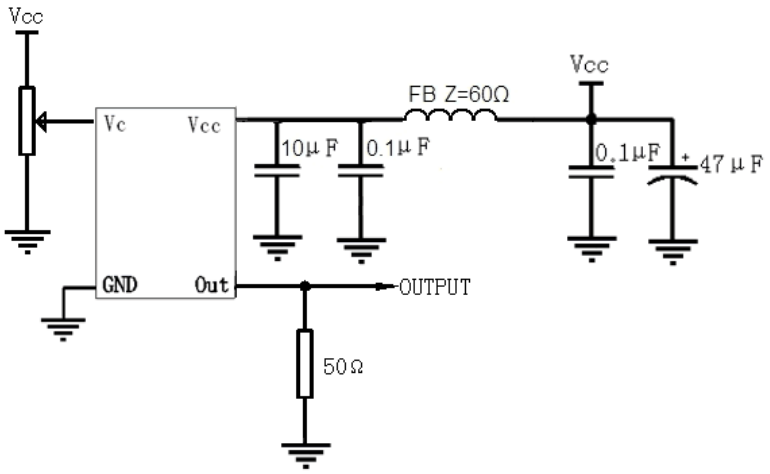
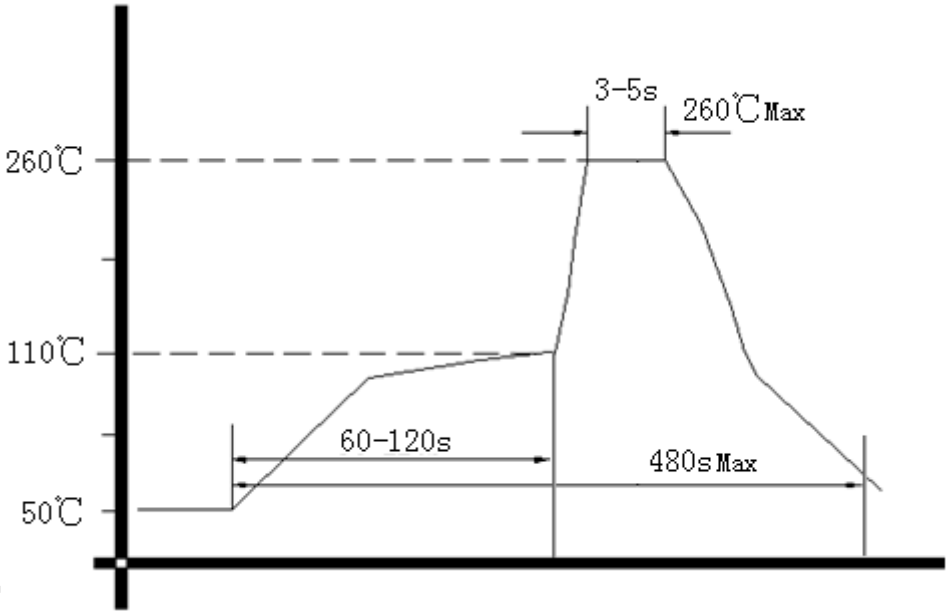
3、Test Circuit



4、Wave Soldering Curve (RoHS)



5、Package: PVC Tube,5pcs（mm）