Travelling Merchant:_____

DATASHEET

Standard: **O11F-2602-10.00MHz**

P/N: _____

Plot			The Label
Drew	Audited	Approved	
Amway.wei	Tony·Wang	James.Liu	
Date: 2019.03.26			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	2018.12.07
1.1	“Mechanical Structure” and “Power Supply ” changed	Amway	2018.12.13
1.2	“Shock” changed	Amway	2018.12.20
1.3	“Phase Noise” “Warm up current” changed	Amway	2019.03.26

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1. Electrical Parameters

MODEL： O11F-2602-10.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		10.00		MHz	
	Output Waveform		HCMOS			
	Output Low Voltage			0.3	V	V_{cc}=3.3V, O_{load}=15 pF
	Output High Voltage	2.4			V	V_{cc}=3.3V, O_{load}=15 pF
	Duty Cycle	45		55	%	@50%
	Rise / Fall Time （10%~90%）			5	ns	@25℃
	Load		15		pF	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.03		+0.03	$\times 10^{-6}$	T_A varied from-40℃ to 95℃, measurement referenced to frequency observed with $f_{ref}=(f_{max}+f_{min})/2$, V_{cc}=3.3V, O_{load}=15pF, temperature variable speed less than 2℃per minute.
	Initial Frequency Tolerance	-0.5		+0.5	$\times 10^{-6}$	Measurement referenced to frequency observed with T_A=25℃, V_{cc}=3.3V within 30 days after ex-works.
	In a 24h period at constant temperature	-5		+5	$\times 10^{-9}$	after 7 days of continous operation
	Frequency Tolerance vs. Supply Voltage	-0.01		+0.01	$\times 10^{-6}$	measurement referenced to frequency observed T_A=25℃, V_{cc} varied from 3.13V to 3.47V, and O_{Load}=15pF .
	Frequency Tolerance vs. Load	-0.01		+0.01	$\times 10^{-6}$	5% load change measurement referenced to frequency observed with T_A=25℃,V_{cc}=3.3V, O_{Load}=15pF.
	Aging Tolerance 1 Year	-0.8		+0.8	$\times 10^{-6}$	TA=25℃, V_{cc}=3.3V, and after 30 days of operation.
	Aging Tolerance 10 Year	-2.5		+2.5	$\times 10^{-6}$	

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Power Supply	Steady Consumption			200	mA	@25℃
	Warm up current			800	mA	
	Supply Voltage	3.13	3.3	3.47	V	
Phase Noise	Phase Noise		-70	-60	dBc/Hz	1Hz
			-118	-108		10Hz
			-142	-132		100Hz
			-153	-148		1KHz
			-158	-153		10KHz
			-158	-153		100KHz
			-158	-153		1MHz
Environmental Conditions	Operable Temperature	-40		+95	℃	
	Storage Temperature	-40		+95	℃	
	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～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.				

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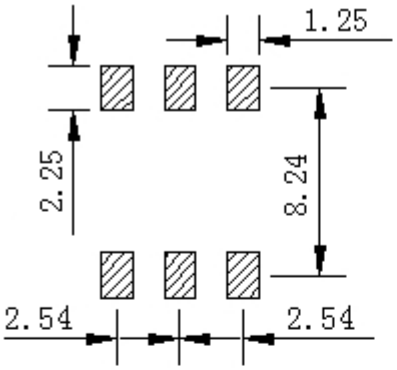
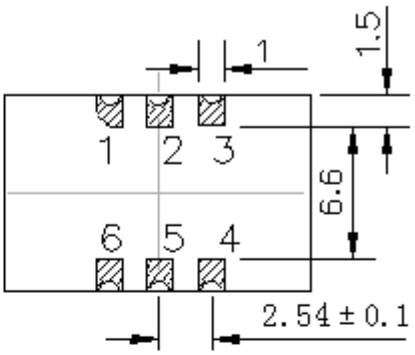
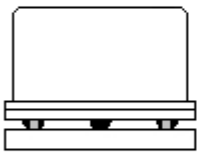
2. Mechanical Structure(mm)

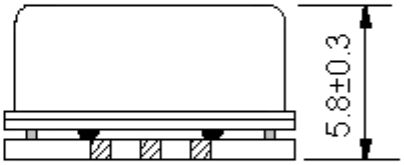


Solder Pad layout



Bottom view


Right view



Side view

PIN FUNCTION

PIN	NOTATION	FUNCTION
1	NC	Not Connect
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: The first two xx representative: week
After two xx representative: year

Note3: Referential weight 2.2g

Note4: NC is not connect

Note5: Passing through reflow upside down is not supported

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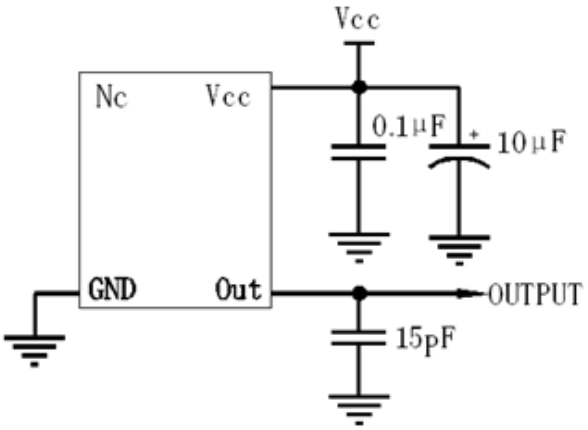
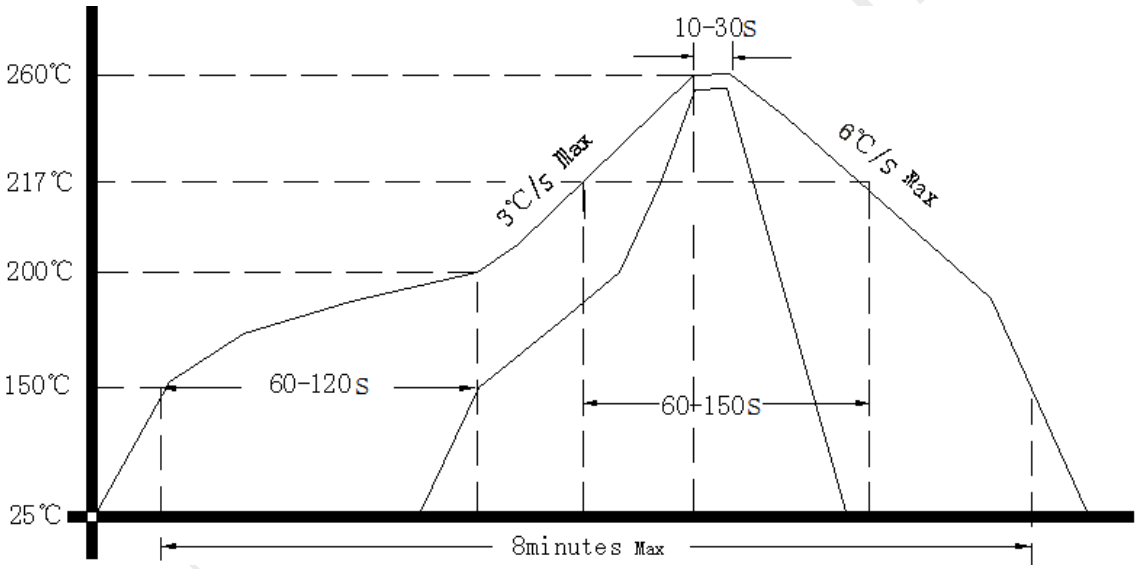
3.Test circuit



4.Reflow Soldering Curve (RoHS)



5.Package: Tape & Reel (mm)