Travelling Merchant:_____

DATASHEET

Standard: **O22S-F428-10.00MHz**

P/N: _____

Plot			The Label
Drew	Audited	Approved	
Amway.wei	Tony·Wang	James.Liu	
Date: 2017.09.01			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	2017.08.16
1.1	The “Marking” changed	Amway	2017.09.01

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1、Electrical Parameters

MODEL： O22S-F428-10.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		10.00		MHz	
	Output Waveform		Sine wave			
	Level	6		10	dBm	
	Load		50		Ω	
	Harmonics Suppression			-40	dBc	
	Spurious Suppression			-70	dBc	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-5.0		+5.0	$\times 10^{-9}$	T_A varied from -0℃ to 60℃, measurement referenced to frequency observed with T $f_{ref}=(f_{max}+f_{min})/2$, V_{cc}=5.0V, 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}=5.0V,V_c=2.5V, and after 15 minutes of operation, within 30 days after ex-works
	Frequency Tolerance vs. Supply Voltage	-2.0		+2.0	$\times 10^{-9}$	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	-2.0		+2.0	$\times 10^{-9}$	5% load change measurement referenced to frequency observed with T_A= 25℃,V_{cc}=5.0V, 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	-0.5		+0.5	$\times 10^{-9}$	V_{cc}, V_c, T_A constant measurement referenced to frequency observed with T_A= 25℃, V_{cc}= 5.0V, V_c=2.5V,and after 30 days of operation.
	Aging Tolerance 1 Year	-0.05		+0.05	$\times 10^{-6}$	
Power Supply	Supply Voltage	4.75	5.0	5.25	V	
	Steady Consumption			250	mA	@25℃
	Warm up Current			600	mA	

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Voltage Control Characteristics	Frequency Tuning Range			-1.0	$\times 10^{-6}$	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 10.00MHz
		+1.0			$\times 10^{-6}$	V_c=5.0V. measurement referenced to V_c=2.5V
	Linearity			10	%	
	Slope	Positive				
	Input Impedance	100			KΩ	
Phase Noise	Phase Noise		-90	-80	dBc/Hz	1Hz
			-120	-110		10Hz
			-140	-130		100Hz
			-145	-140		1KHz
			-150	-145		10KHz
			-150	-145		100KHz
Environmental Conditions	Operable Temperature	-0		+60	℃	
	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～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℃				

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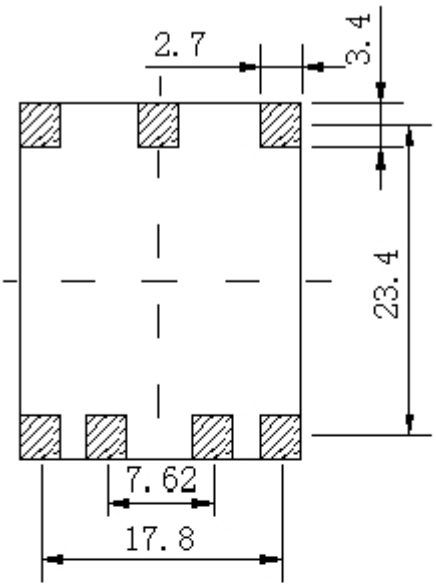
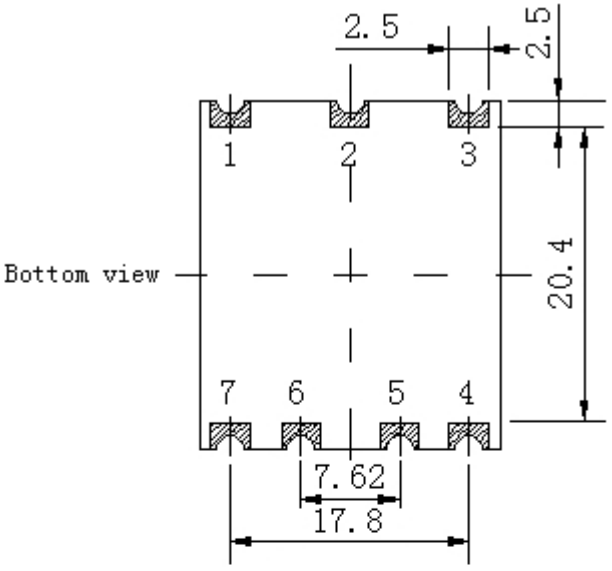
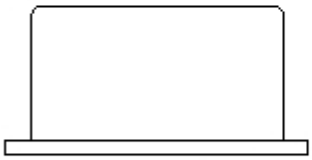
2、Mechanical Structure(mm)



Solder Pad layout

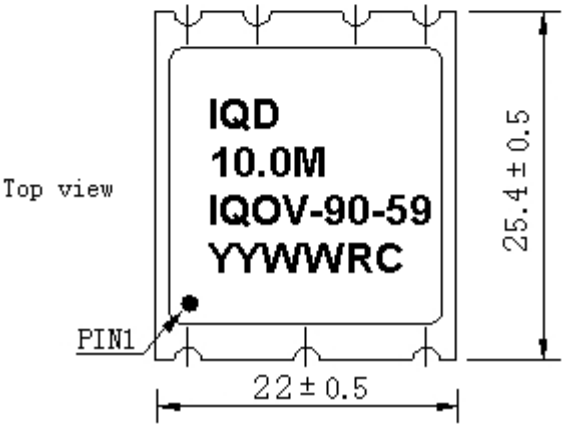




Right view

PIN FUNCTION

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



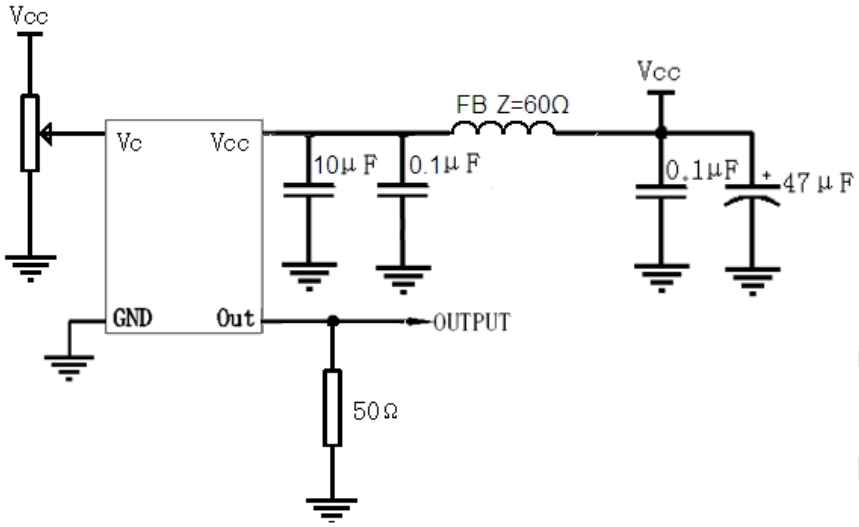
Note1: Tolerance ±0.2mm without mark

Note2: Referential weight 7.8g

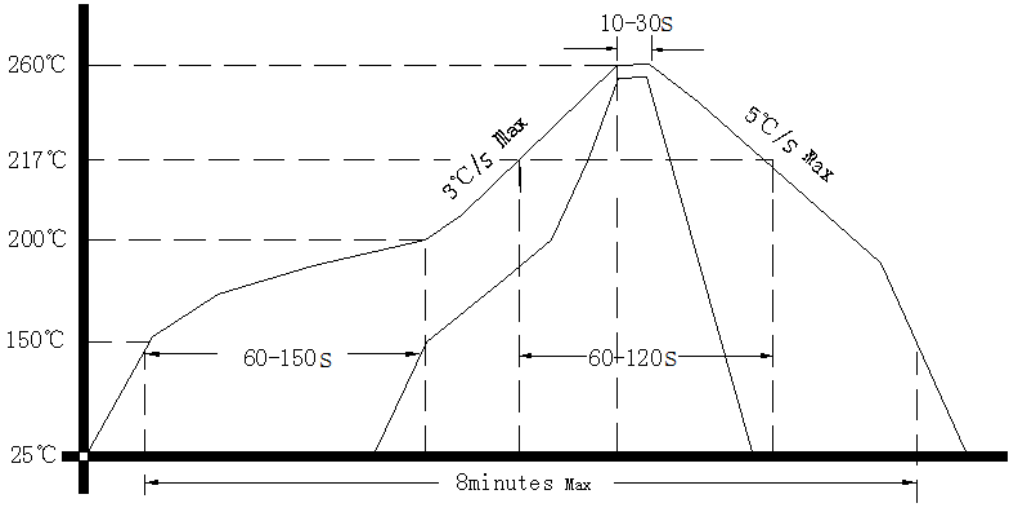
Note3: NC is not connect

Note4: The first two yy representative: year
After two ww representative: week

3、Test Circuit



4、Reflow Soldering Curve (RoHS)



5、Package: Tape & Reel (mm)