Travelling Merchant:_____

DATASHEET

Standard: **O22B-J329-10.00MHz**

P/N: _____

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Amway.wei	Tony · Wang	James.Liu	
Date: 2018.04.25			

Guangdong Dapu Telecom Technology Co.,Ltd

Bldg13-16,.N.Ind.Zone,SSL Industry Park, Dongguan City, Guangdong Province, China

TEL：0086-0769-88010888 FAX：0086-0769-81800098

Bldg13-16,.N.Ind.Zone,SSL Industry Park, Dongguan City, Guangdong Province, PR China
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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	Amway	2018.04.25

Bldg13-16,.N.Ind.Zone,SSL Industry Park, Dongguan City, Guangdong Province, PR China
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1. Electrical Parameters

MODEL： O22B-J329-10.00MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency		10.00		MHz	
	Output Waveform		LVTTL			
	Output Low Voltage			0.4	V	V_{cc}=5.0V, O_{load}=15pF
	Output High Voltage	2.6			V	V_{cc}=5.0V, O_{load}=15pF
	Duty Cycle	45	50	55	%	@50%
	Rise / Fall Time (10%~90%)			6	ns	
	Load		15		pF	
	Spurious			-60	dBc	
	Output overshoot			10	%	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-0.01		+0.01	$\times 10^{-6}$	T_A varied from -40℃ to 85℃, measurement referenced to frequency observed with T_A= 25℃, V_{cc}=5.0V, O_{load}=15 pF, temperature rise speed less than 2℃per minute.
	Initial Frequency Tolerance	-0.1		+0.1	$\times 10^{-6}$	Measurement referenced to frequency observed with T_A=25℃, V_{cc}=5.0V,
	Frequency Tolerance vs. Supply Voltage	-0.5		+0.5	$\times 10^{-9}$	measurement referenced to frequency observed T_A=25℃, V_{cc} varied from 4.75V to 5.25V and O_{Load}=15pF.
	Frequency Tolerance vs. Load	-0.5		+0.5	$\times 10^{-9}$	5% load change measurement referenced to frequency observed with T_A=25℃, V_{cc}=5.0V and O_{Load}=15pF.
	Short-Term Stability			0.05	$\times 10^{-9}$	After power on one hour and after stabilization after power on 30mins, Alan Variance
	Aging Tolerance Per day	-0.5		+0.5	$\times 10^{-9}$	V_{cc},T_A constant measurement referenced to frequency observed with TA=25℃, Vcc= 5.0V, and after 30 days of operation.
	Aging Tolerance 1 Year	-0.05		+0.05	$\times 10^{-6}$	
	Aging Tolerance 10Year	-0.3		+0.3	$\times 10^{-6}$	
	Supply Voltage	4.75	5.0	5.25	V	
	Steady Consumption			300	mA	@25℃

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	Warm up current			600	mA	
	Warm-Up Time			10	minutes	@25℃ within ±0.01×10^{-6} power on 10 minutes compared with 1 hour
Phase Noise	Phase Noise		-95	-90	dBc/Hz	1Hz
			-125	-120		10Hz
			-140	-135		100Hz
			-148	-145		1KHz
Environmental Conditions	Operable Temperature	-40		+85	℃	
	Storage Temperature	-55		+125	℃	
	Operating Humidity	10		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℃				

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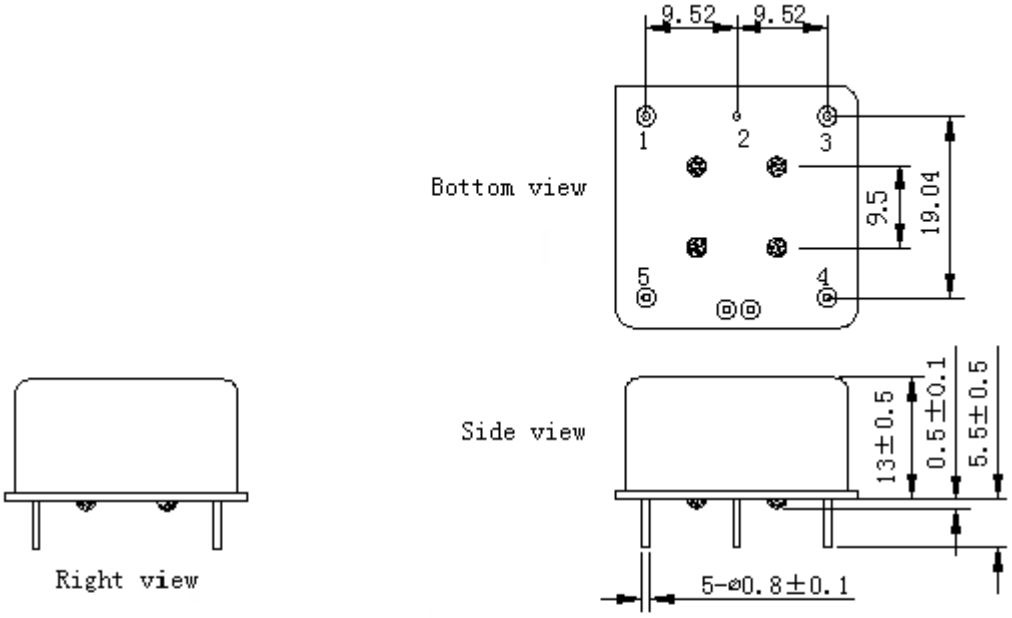
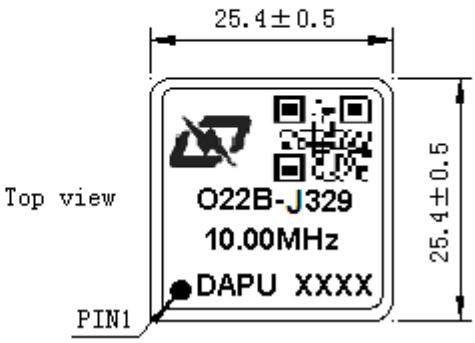
2. Mechanical Structure (mm)



PIN FUNCTION

PIN	NOTATION	FUNCTION
1	OUTPUT	RF Output
2	GND	GND
3	NC	Not Connect
4	NC	Not Connect
5	VCC	Supply Voltage



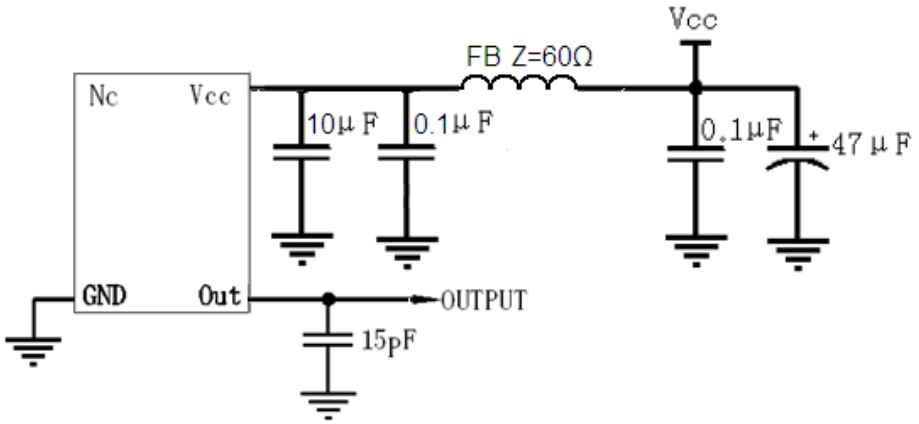
Note1: Tolerance ±0.2mm without mark

Note2: Referential weight 13.6g

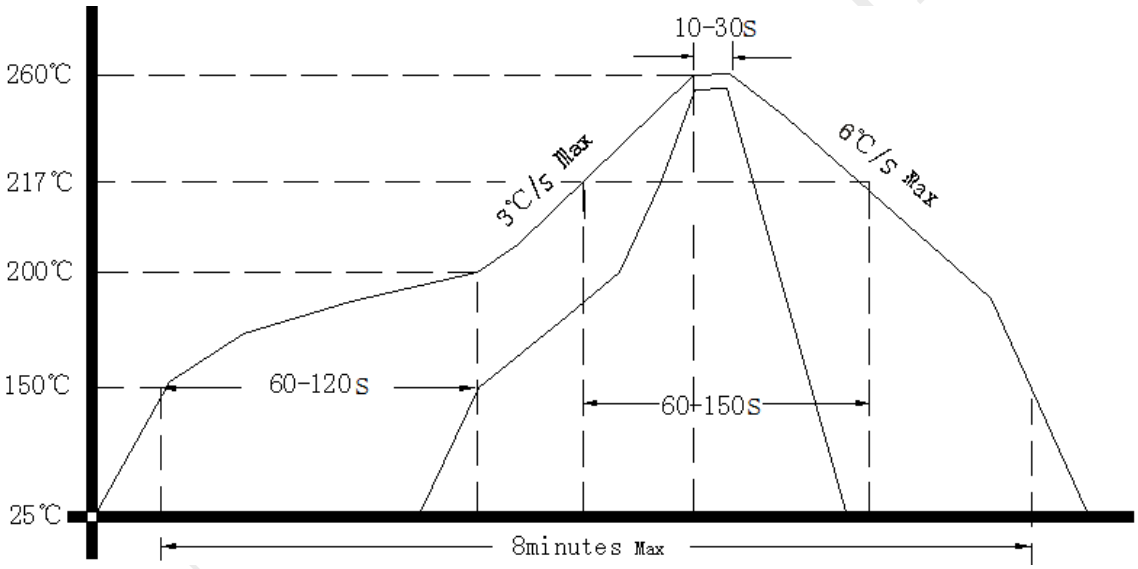
Note3: NC is not connect

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

3. Test Circuit



4. Reflow Soldering Curve (RoHS)



5. Package（mm）