


Travelling Merchant: _____

DATASHEET

Standard: T11A-E312-12.80MHz

Plot			The Label
Drew	Audited	Approved	
<i>Suzanne Sun</i>	<i>Carry Wing</i>	<i>James Lau</i>	 Stamp, please! Thanks!
Date: _____			

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1、Electrical Parameters

MODEL: T11A-E312-12.80MHz						
Item	Description	Parameters			Unit	Test Condition
		Min.	Typ.	Max.		
Output	Frequency	12.80			MHz	
	Output Waveform	HCMOS				
	Output low voltage			0.4	V	V _{CC} =3.3V, O _{load} =15pF
	Output high voltage	2.7			V	V _{CC} =3.3V, O _{load} =15pF
	Duty Cycle	45	50	55	%	
	Rise / Fall time (10%~90%)			5	ns	@25°C
	Load		15		pF	
Frequency Stabilities	Frequency Tolerance vs. Operating Temperature Range	-1		+1	ppm	T _A varied from 0°C to 70°C, measurement referenced to frequency observed with T _A =25°C, V _{CC} =3.3V, V _C =1.65V, O _{load} =15pF
	Initial Frequency Tolerance	-1		+1	ppm	Measurement referenced to frequency observed with T _A =25°C, V _{CC} =3.3V, V _C =1.65V and after 5s of operation, within 30 days after ex-works
	Frequency Tolerance vs. Supply Voltage	-0.3		+0.3	ppm	measurement referenced to frequency observed T _A =25°C, V _{CC} varied from 3.13 V to 3.47V, V _C =1.65V and O _{load} =15pF
	Frequency Tolerance vs. Load	-0.2		+0.2	ppm	5% load change measurement referenced to frequency observed with T _A =25°C, V _{CC} =3.3V, O _{load} =15pF
	Aging Tolerance Per Day	-0.02		+0.02	ppm	V _{CC} , V _C , T _A constant measurement referenced to frequency observed with T _A =25°C, V _{CC} =3.3V, V _C =1.65V and after 30 days of operation
	Aging Tolerance 1 Year	-1		+1	ppm	
Power Supply	Current Consumption		5		mA	@25°C
	Supply Voltage	3.13	3.3	3.47	V	
Voltage Control Characteristics	Frequency Tuning Range			-8	ppm	V _C =0V, measurement referenced to V _C =1.65V
		-1		+1	ppm	V _C =1.65V, measurement referenced to exactly 12.80MHz
		+8			ppm	V _C =3.3V, measurement referenced to V _C =1.65V



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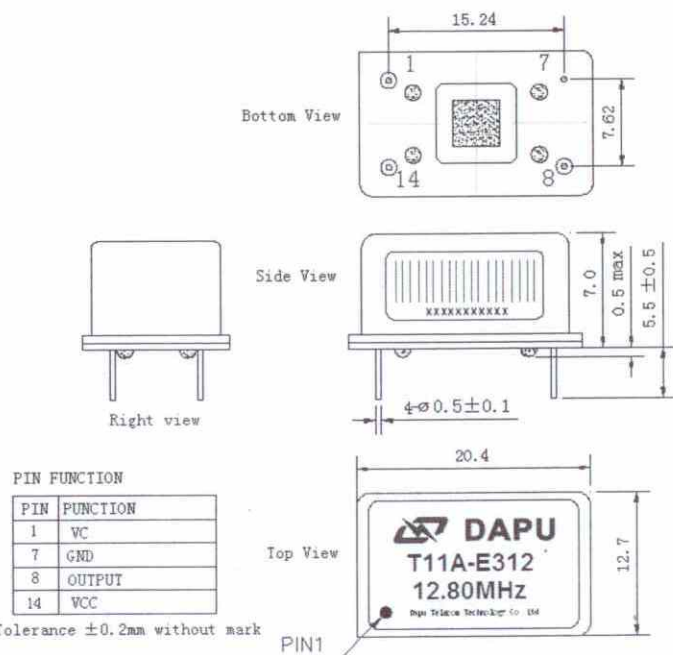
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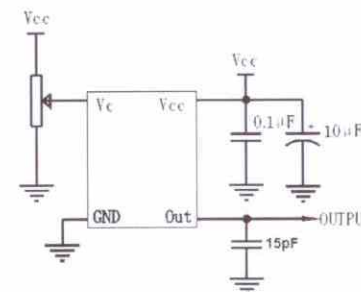
	Linearity			10	%	
	Slope	Positive				
	Input Impedance	100			K Ohm	
Phase Noise	Phase Noise		-135		dBc/Hz	1KHz
Environmental Conditions	Operable Temperature	0		+70	°C	
	Storage Temperature	-40		+85	°C	
	Vibration	Test Condition: 0.75mm ;acceleration:10g;10Hz~2000Hz, one cycle per 30 min, test 2 hour. (3 times for each 3 directions X , Y , Z)				
	Shock	100g; 6ms; half sine wave (3 times for each 3 directions X , Y , Z),IEC 68-2-27 Test Ea/Severity 50A.				
	Drop	Test Condition: free drop on steel-made surface or rigid plane from a height of 100cm,IEC 68-2-32.				

2、Mechanical Structure(mm)

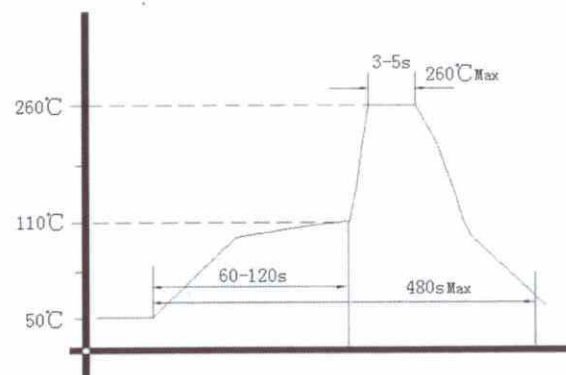


Note: Referential Weight 4.1g

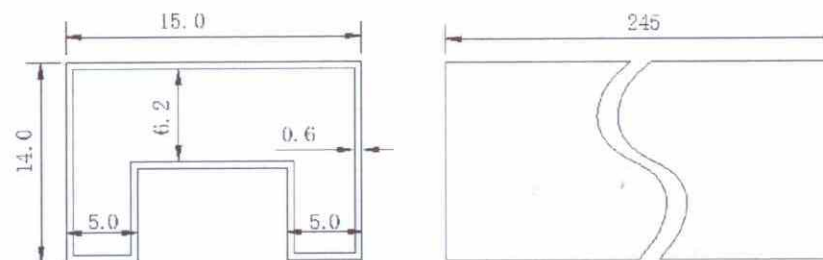
3、Test Circuit



4、Wave Soldering Curve (RoHS)



5、Package: PVC Tube,10pcs (mm)



Handwritten signature and date: 2010.8.2