Customer Code : _____

DATASHEET

DAPU P/N : **CM55F-N129-10.00MHz**

Customer P/N: _____

DAPU			Customer Approval
Drew	Audited	Approved	
Amway.wei	Steven.Sun	James.Liu	
Date: 2015.03.12			Stamp, please! Thanks!

Guangdong Dapu Telecom Technology Co.,Ltd

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

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Table of amendment

Version	Revision contents	Prepared by	Revised date
1.0	The first issued	Amway	2015.03.12

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1、Electrical Parameters

1 PPS Reference Input	Parameters	Min.	Typ.	Max.	Unit.	Test Condition
	Waveform		HCMOS			
	High-Level Output Voltage (V_{IH})	2.7			V	50Ω
	Low-Level Output Voltage (V_{IL})			0.4	V	
	Pulse Width	10			μs	
	Connector		Pin 10			
State Input	Parameters	Min.	Typ.	Max.	Unit.	
	Lock Enable	2.7			V	<5mA Load
	Lock Disable			0.4	V	<5mA Load
	Connector		Pin 8			
RF Output	Parameters	Min.	Typ.	Max.	Unit.	Test Condition
	Nominal Frequency		10.00		MHz	
	Waveform		HCMOS			
	High-level Output voltage (V_{OH})	2.7			V	<5mA Load
	Low-level Output voltage (V_{OL})			0.4	V	<5mA Load
	Rise/Fall Time			8	ns	<5mA Load
	Duty Cycle	45	50	55	%	<5mA Load
	Accuracy	-1		1	$\times10^{-12}$	24 hour average when locked to 1 PPS
	Short-term stability			2	$\times10^{-11}$	Temperature stability, no EMI\EMC or other interference , test after power for 1 hour ref. to 25℃; 1s, using PN9000 equipment.
	Aging Tolerance Per Day	-0.2		+0.2	$\times10^{-9}$	Vcc, TA constant measurement referenced to frequency observed with TA=25℃,Vcc=5.0V, in FREE RUN condition and after 30 days of operation.
	Aging Tolerance 1 Year	-0.01		+0.01	$\times10^{-6}$	
	Phase noise (All conditions)		-118		dBc/Hz	10Hz
			-138			100Hz
			-148			1KHz
			-150			10KHz
			-150			100KHz
			-150			1MHz
	Connector		Pin 14			

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Holdover Capability	Holdover Time	Min.	Typ.	Max.	Unit.	
	24 hours	-8		+8	μs	ΔT=±2℃, 24 hours holdover after turn on 7days and lock 3days. Temperature variable speed less than 1℃per minute
Supply Voltage	Parameters	Min.	Typ.	Max.	Unit.	
	Supply voltage	4.75	5.0	5.25	V	
	Current consumption			1400	mA	During Warm-up
				600	mA	During steady state operation @25℃
	AC ripple			50	mVpk-pk	10Hz to 1MHz
	Connector	Pin 3				
1 PPS Output Waveform Characteristics	Parameters	Min.	Typ.	Max.	Unit.	
	Waveform	HCMOS				
	High-Level Output Voltage(V_{OH})	2.7			V	50Ω
	Low-level Output voltage (V_{OL})			0.4	V	
	Pulse width	10			μs	
	Connector	Pin 12				
State Output	Parameters	Min.	Typ.	Max.	Unit.	
	Lock	2.7			Vdc	<5mA Load
	Holdover			0.4	Vdc	<5mA Load
	Connector	Pin 5				
Environmental Conditions	Parameter	Conditions				
	Operating temperature	-20℃ to +75℃				
	Storage Temperature	-55℃ to +105℃				
	Storage humidity	30%~80%				
	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 hours. (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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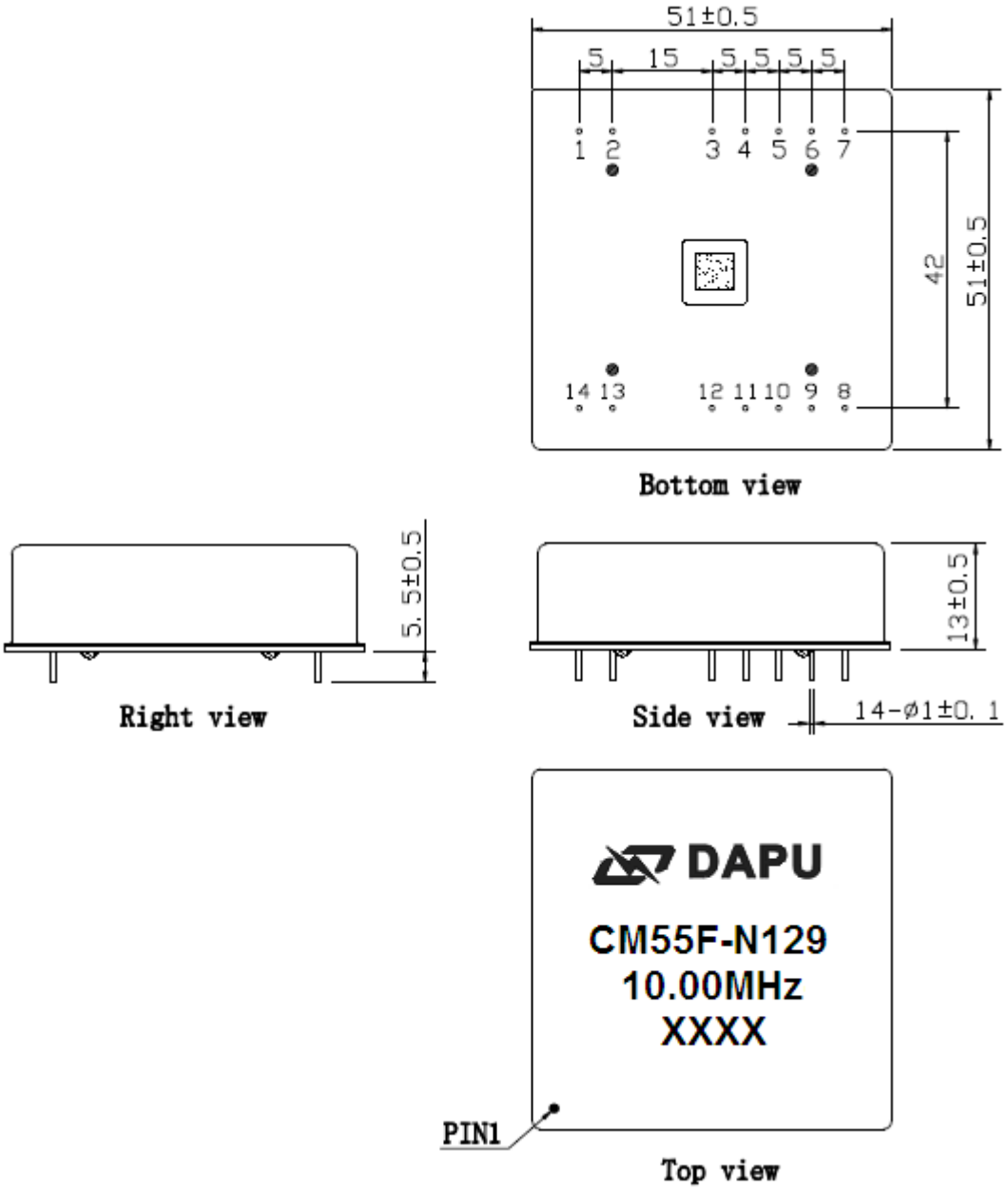
2、Mechanical Structure(mm)



Note1: Tolerance ±0.2mm without mark

Note2: The first two xx representative: week
After two xx representative: year

Note3: Referential Weight 52±5g

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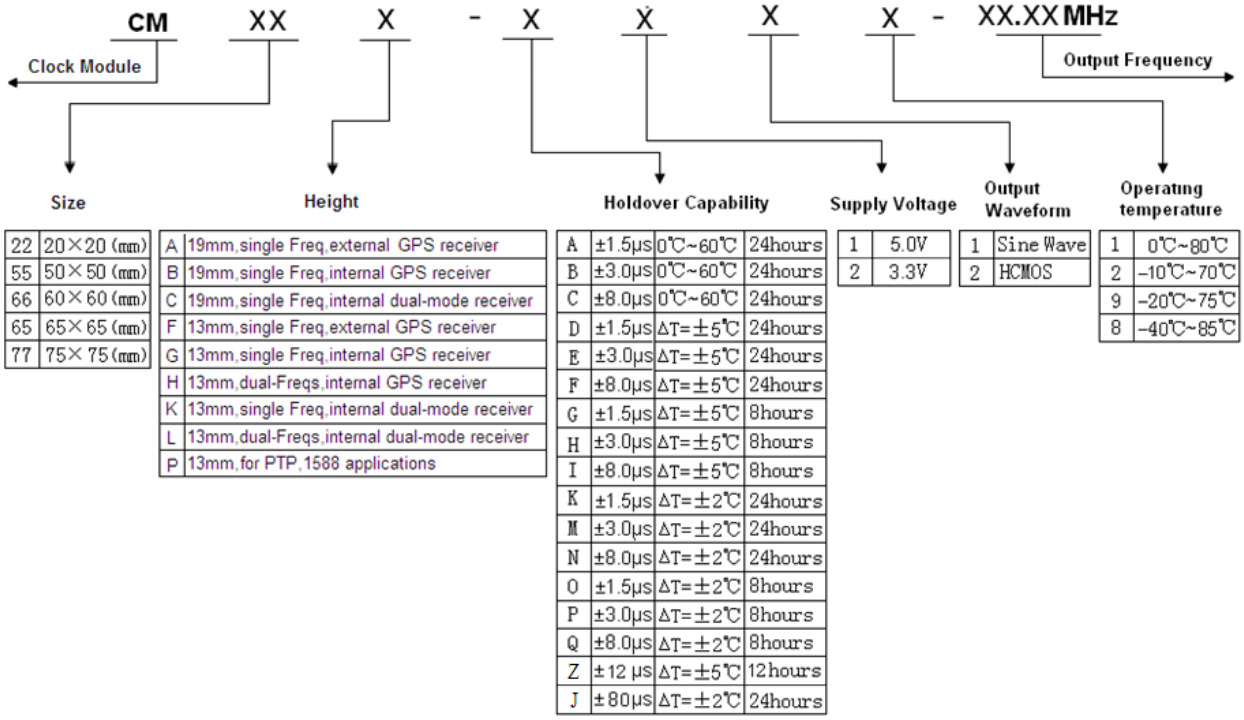
PIN DEFINITION			
PIN	**Name**		**DESCRIPTION**
3	Vcc +5.0Vdc		Power supply input,4.75V to 5.25V.
5	Lock OUTPUT		State output. Output high level when the work state is Run2(See section 4),others low level.
6	RX INPUT		Asynchronous serial data input.9600-N-8-1.
7	TX OUTPUT		Asynchronous serial data output(See section 5).9600-N-8-1.
8	State INPUT	H: Lock Enable	The work state is set to normal operation when the state input is high.
		L: Lock Disable	The work state is set to hold over when the state input is low.
9	NC		Not connected.
10	1PPS INPUT		1PPS reference input.
12	1PPS OUTPUT		The clock module 1PPS output.
14	10MHz OUTPUT		10MHz OCXO frequency output.
1、2	NC		Not connected.
4、11、13	GND		GND

3、Coding Rules



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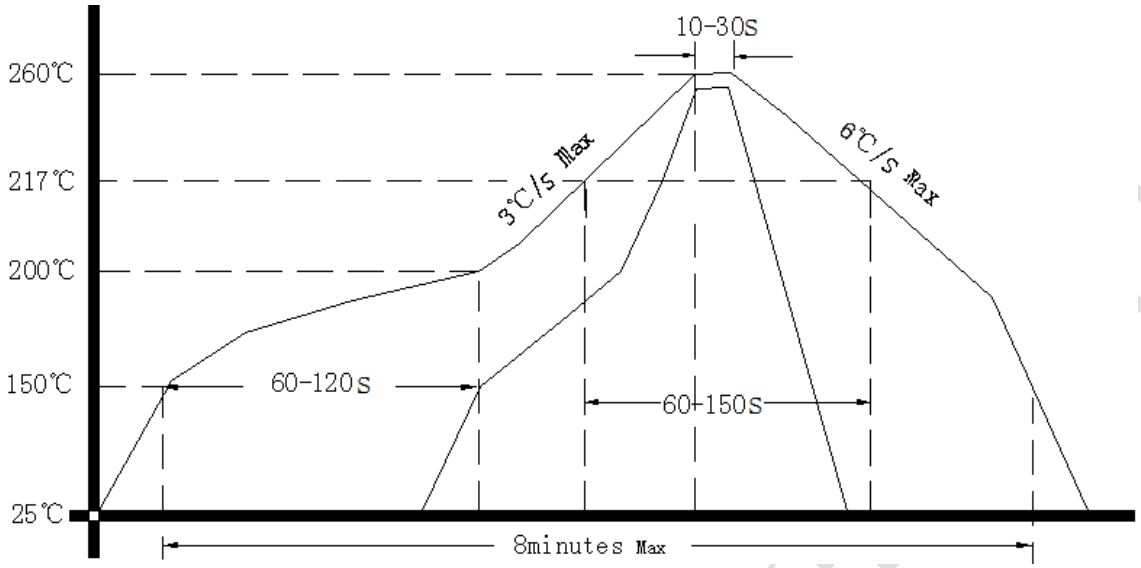
4、Reflow Soldering Curve (RoHS)



5、Package（mm）