

Travelling Merchant: _____

DATASHEET

Standard: CM66-K121-19.6608MHz

Plot			The Label
Drew	Audited	Approved	Stamp, please! Thanks!
Date:			

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

**1、 Electrical Parameters**

	PARAMETERS						NOTES
	Internal Receiver Characteristics	Type	Auto Position Lock				
Number Of Channels		50					
Frequency Band		L1 (1575.42 MHz)					
Tracking Code		C/A Code					
Tracking Capability		12 Satellites					
Sensitivity		Tracking & Navigation	-160dBm				
		Reacquisition	-160dBm				
		Cold Start (Autonomous)	-143dBm				
Antenna INPUT	SMA-KE				CN1		
State Input	Parameters	Min.	Typ.	Max.	Unit.		
	Lock	2.4			Vdc	<5mA Load	
	Unlock			0.5	Vdc	<5mA Load	
	Connector	Pin 8					
2 PPS Reference Output	Parameters	Min.	Typ.	Max.	Unit.	Test Condition	
	Waveform	LVCMOS					
	High-Level Output Voltage (V _{IH})	2.4			Vdc	50 Ohms	
	Low-Level Output Voltage (V _{IL})			0.5	Vdc		
	Pulse Width	10			uSec		
	Phase	Synchronous with 19.6608MHz					
Connector	Pin 12						
State Output	Parameters	Min.	Typ.	Max.	Unit.		
	Lock	2.4			Vdc	<5mA Load	
	Unlock			0.5	Vdc	<5mA Load	
	Connector	Pin 5					
RF Output	Parameters	Min.	Typ.	Max.	Unit.	Test Condition	
	Nominal Frequency		19.6608		MHz		
	Waveform	LVCMOS					



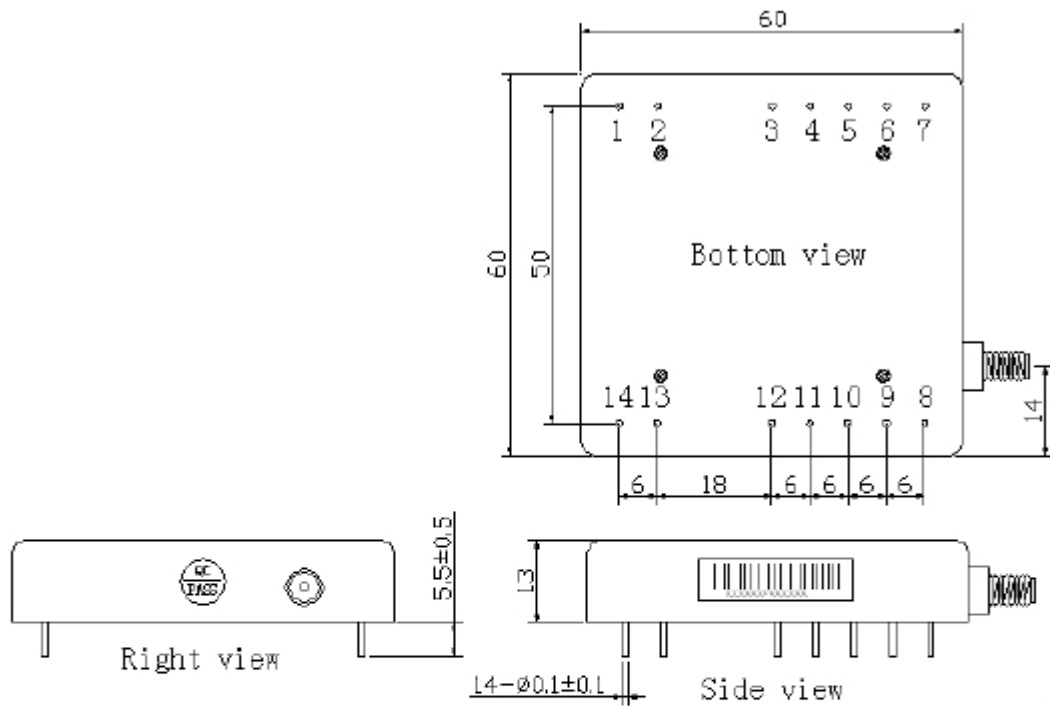
	High-level Output voltage (V _{OH})	2.4			Vdc	< -0.5mA Load/LVCMOS	
	Low-level Output voltage (V _{OL})			0.5	Vdc	< 0.5mA Load/LVCMOS	
	Rise/Fall Time			6	nSec	Load 15pF/LVCMOS	
	Duty Cycle	45	50	55	%	Load 15pF/LVCMOS	
	Accuracy	-2		2	E-12	24 hour average when locked to GPS	
	Short-term stability			2	E-11	Temperature stability,no EMI/EMC or other interference,test after power for 1 hour ref. to 25°C; 1s, using PN9000 equipment.	
	Phase noise (All conditions)		-120			dBc/Hz	@ 1KHz offset
	Connector	Pin14					
Holdover Capability	Holdover Time	Min.	Typ.	Max.	Unit.		
	24 hours			1.5	uSec	ΔT=±2°C, 24 hours holdover after turn on 7days and GPS lock 3days	
Supply Voltage	Parameters	Min.	Typ.	Max.	Unit.		
	Supply voltage	4.75	5.0	5.25	Vdc		
	Current consumption			2000	mA	During Warm-up	
				1000	mA	During steady state operation @25°C	
	AC ripple			50	mVpk-pk	10Hz to 1MHz	
Connector	Pin 3						
Serial Interfaces	Parameters	Min.	Typ.	Max.	Unit.		
	Rx high-level input voltage (V _H)	2.9		3.7	Vdc		
	Rx low-level input voltage (V _L)	-0.4	0.0	0.4	Vdc		
	Tx high-level output voltage (V _H)	2.9	3.3		Vdc		
	Tx low-level output voltage (V _L)		0.0	0.4	Vdc		
	data format	RS-232 Level					
	Serial protocol	9600-N-8-1					
	Connector	Pin6 and Pin7					
Environmental	Parameter	Conditions					



Conditions	Operating temperature	-10°C to +60°C
	Humidity @ 40°C	90%
	Storage Temperature	-40°C to +85°C
Environmental Compliance	Parameter	Conditions
	Mechanical shock	MIL-STD-2002, Method 213 condition B
	Mechanical vibration	MIL-STD-2002, Method 204 condition A
	Resistance to solvents	MIL-STD-2002, Method 215



2、Mechanical Structure(mm)



PIN DEFINITION		
Number	Name	
3	Vcc +5.0Vdc	
5	Lock OUTPUT	
6	RX INPUT	
7	TX OUTPUT	
8	State	H: Lock
	INPUT	L: Unlock
12	2 PPS OUTPUT	
14	19.6608MHz OUTPUT	
1, 2, 10	NC	
4, 9, 11, 13	GND	



Note1: Tolerance ±0.1mm without mark

Note2: The bottom view means that the stitches are against the people