规格书编号

SPEC NO :

产品规格书
SPECIFICATION

CUSTOMER 客 户：

PRODUCT 产 品：**Frequency Synthesizer**

MODEL NO 型 号：**HD M9010**

PREPARED 编 制：Liuyalong CHECKED 审 核：Houshihong

APPROVED 批 准：CHARLES D A T E 日 期：2007-01-25

客户确认 CUSTOMER RECEIVED:		
审核 CHECKED	批准 APPROVED	日期 DATE

无锡市好达电子有限公司

Shoulder Electronics Limited

更改历史记录
History Record

更改日期 Date	规格书编号 Spec No	产品型号 Part No	客户产品型号 Customer No	更改内容描述 Modify Content	备注 Remark

1.Features

Low Noise and Spurious
Small outline package:21mm*15.3mm*4mm
Low operating supply voltage: 4.75 to 5.25V
Operating temperature rang: -40℃~85℃
Store temperature rang: -55℃~100℃

2.Applications

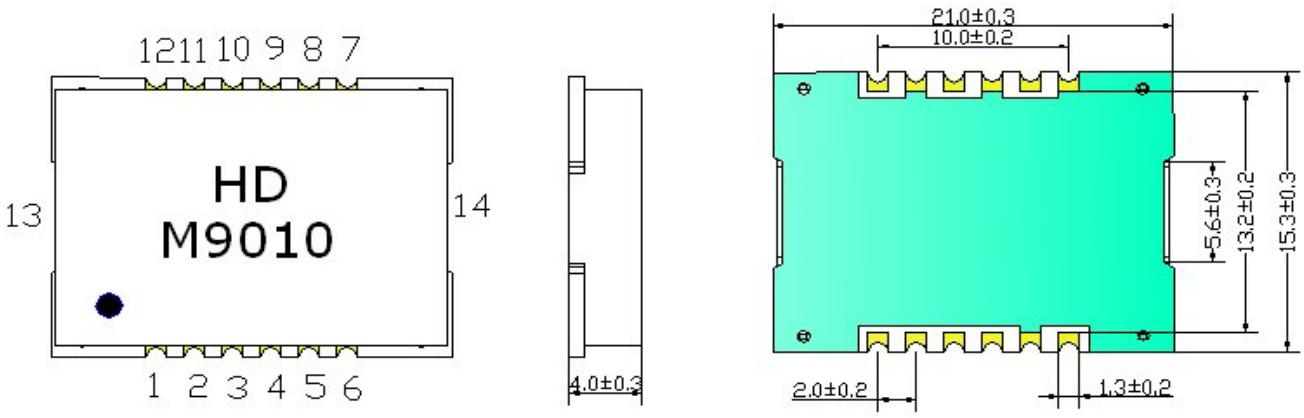
CDMA 2000
Wireless Base station
Navigation system
Wireless Repeater
Point to Point Communication Equipment

3. Electrical Specification

Electrical Characteristics

Parameter	Min	Typ	Max	Units	Remarks
Frequency Range	681		716	MHz	
Step Size		200		KHz	
Settling Time		0.4	0.5	msec	
Output Power:					
	0	3	6	dBm	
	2.5	3	3.5	dBm	@25C
Output Phase Noise:					
1KHz		-85	-80	dBc/Hz	
10KHz		-85	-80	dBc/Hz	
100KHz		-118	-113	dBc/Hz	
200KHz		-130	-125	dBc/Hz	
400KHz		-142	-136	dBc/Hz	
800KHz		-151	-146	dBc/Hz	
Power Supply:					
	4.75	5	5.25	Volts	Vcc VCO
	4.75	5	5.25	Volts	Vcc PLL IC
Supply Current:					
		30	40	mA	Icc VCO
		10	15	mA	Icc PLL IC
Spurious Product:					
200KHz		-80	-70	dBc	
400KHz		-85	-80	dBc	
600KHz		-95	-90	dBc	
Reference Feedthrough		-100	-95	dBc	
Harmonic Suppression					
2nd Harmonic		-20	-15	dBc	
Ref Osc Signal:					
Frequency	10	26	40	MHz	
Amplitude	3		5	Vp-p	
Phase Noise-1KHz		-145		dBc/Hz	
Output Impedance		50		Ω	Norminal

4. Outline Drawing



Pin NO.	Function	Pin NO.	Function
1	Vpll	8	GND
2	GND	9	MUXOUT
3	REFin	10	CLK
4	GND	11	DATA
5	Vvco	12	LE
6	GND	13	GND
7	RFout	14	GND