

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 M9110  
PREPARED 编制: Houshihong CHECKED 审核: Houshihong  
APPROVED 批准: CHARLES DATE 日期: 2007-10-25

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°C~85°C

Store temperature rang: -55°C~100°C

## 2.Applications

CDMA 2000

Wireless Base station

Navigation system

Wireless Repeater

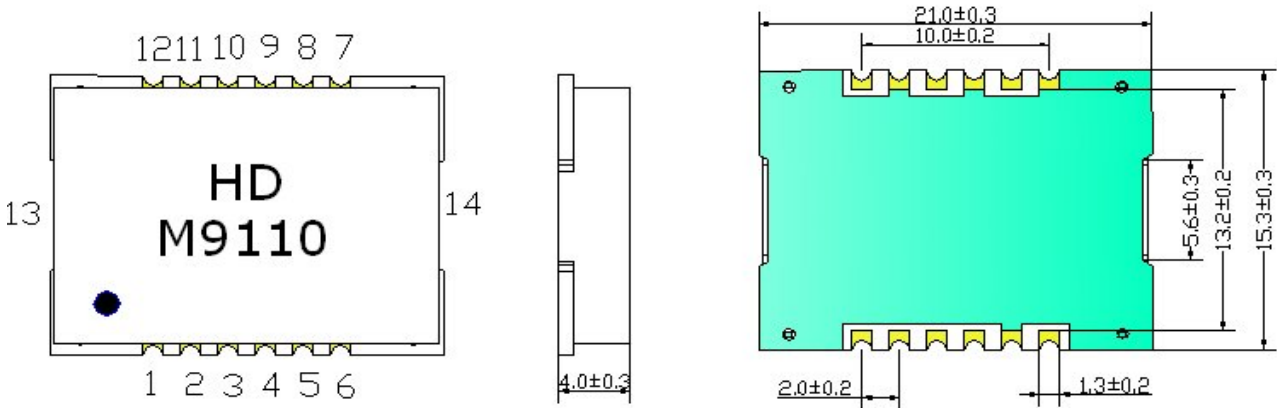
Point to Point Communication Equipment

### 3. Electrical Specification

#### Electrical Characteristics

Parameter	Min	Typ	Max	Units	Remarks
Frequency Range	1511		1586	MHz	
Step Size		200		KHz	
Settling Time		0.4	0.5	msec	within+/-50Hz
Output Power:					
	-3	0	3	dBm	
	-1	0	1	dBm	@+25C
Output Phase Noise:					
1KHz		-83	-75	dBc/Hz	
10KHz		-81	-75	dBc/Hz	
100KHz		-114	-108	dBc/Hz	
200KHz		-124	-118	dBc/Hz	
400KHz		-133	-127	dBc/Hz	
800KHz		-140	-134	dBc/Hz	
Power Supply:					
	4.75	5	5.25	Volts	VCO
	4.75	5	5.25	Volts	PLL
Supply Current:					
		30	40	mA	VCO
		10	15	mA	PLL
Spurious Product:					
200KHz		-75	-70	dBc	
400KHz		-80	-75	dBc	
600KHz		-90	-85	dBc	
Reference Feedthrough		-100	-97	dBc	
Harmonic Suppression:					
2nd Harmonic		-25	-20	dBc	
Ref Osc Signal:					
Frequency	10	26	40	MHz	
Amplitude	3		5	Vp-p	
Phase Noise-1KHz		-145		dBc/Hz	
Input Impedance		100		K $\Omega$	
Output Impedance		50		$\Omega$	

**4. Outline Drawing**



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