

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 M9040
PREPARED 编制: Duchuangang 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

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

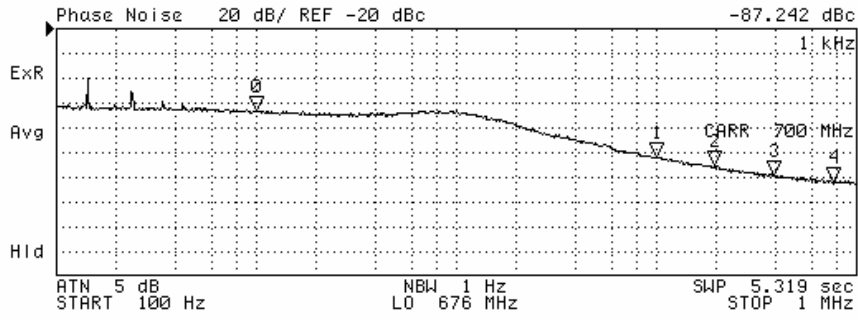
Point to Point Communication Equipment

3. Electrical Specification

Electrical Characteristics

Parameter	Min	Typ	Max	Units	Remarks
Frequency Range	594		666	MHz	
Step Size		200		KHz	
Settling Time		0.4	0.5	msec	
Output Power:					
	-3	0	3	dBm	
	-3	0	1	dBm	@25C
Output Phase Noise:					
1KHz		-85	-80	dBc/Hz	
10KHz		-85	-80	dBc/Hz	
100KHz		-125	-120	dBc/Hz	
200KHz		-128	-125	dBc/Hz	
400KHz		-136	-132	dBc/Hz	
800KHz		-143	-139	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

The Graph of Typical Phase Noise



N	SWP PARAM	VAL
0	1 kHz	-87.242 dBc
1	100 kHz	-125.29 dBc
2	200 kHz	-131.85 dBc
3	400 kHz	-139.55 dBc
4	800 kHz	-145.08 dBc

SELECT LETTER

SPACE

BACK SPACE

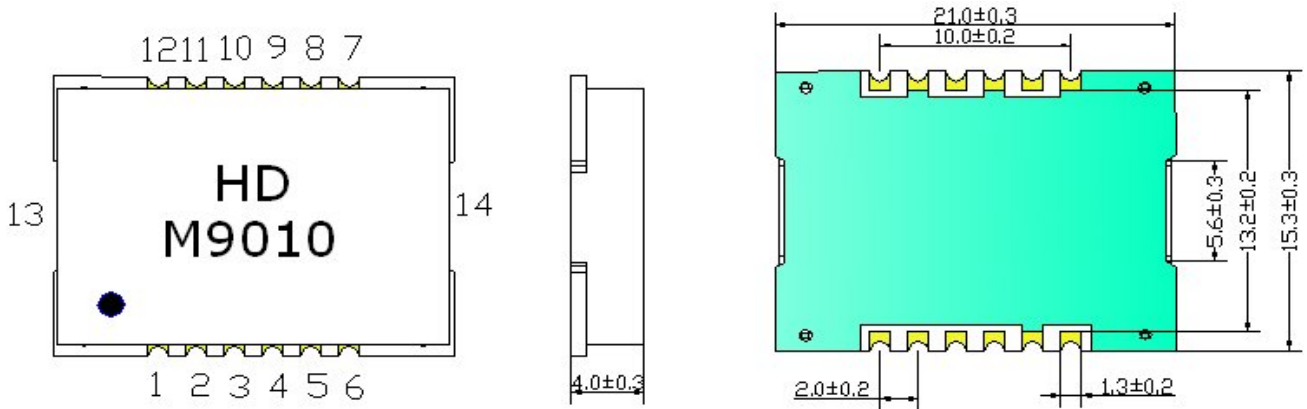
ERASE TITLE

DONE

STOR_DEV [DISK]

CANCEL

4. Outline Drawings



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