

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 M9160
PREPARED 编制: Duchuangang CHECKED 审核: Houshihong
APPROVED 批准: CHARLES DATE 日期: 2008-06-01

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

4.75 to 5.25 Power supply

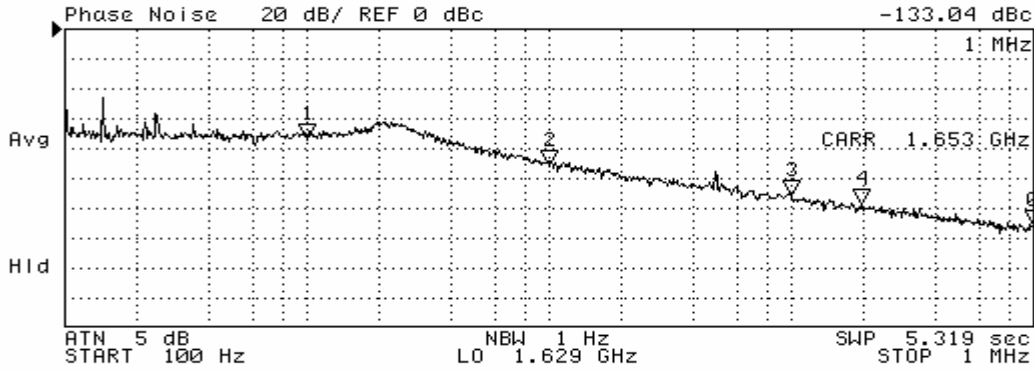
2.Applications

Base station

3. ELECTRICAL SPECIFICATION

Electrical characteristics

parameter	min	typ	max	units	Remarks
Frequency range	1640		1665	MHz	
Step size		50		KHz	
Settling time		0.4	10	msec	within +/-50Hz
Output power					
	-3	0	3	dBm	
	-1	0	1	dBm	@+25C
Output phase noise					
1KHz		-75	-73	dBc/Hz	
10KHz		-90	-85	dBc/Hz	
100KHz		-110	-108	dBc/Hz	
200KHz		-120	-115	dBc/Hz	
1MHZ		-135	-130	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		40	MHz	
amplitude	3		5	Vp-p	
Phase noise-1KHz		-145		dBc/Hz	
Input impedance		100		K Ω	
Output impedance		50		Ω	



N	SWP PARAM	VAL
0	1 MHz	-133.04 dBc
1	1 kHz	-74.083 dBc
2	10 kHz	-92.121 dBc
3	100 kHz	-112.07 dBc
4	200 kHz	-118.22 dBc

SELECT LETTER

SPACE

BACK SPACE

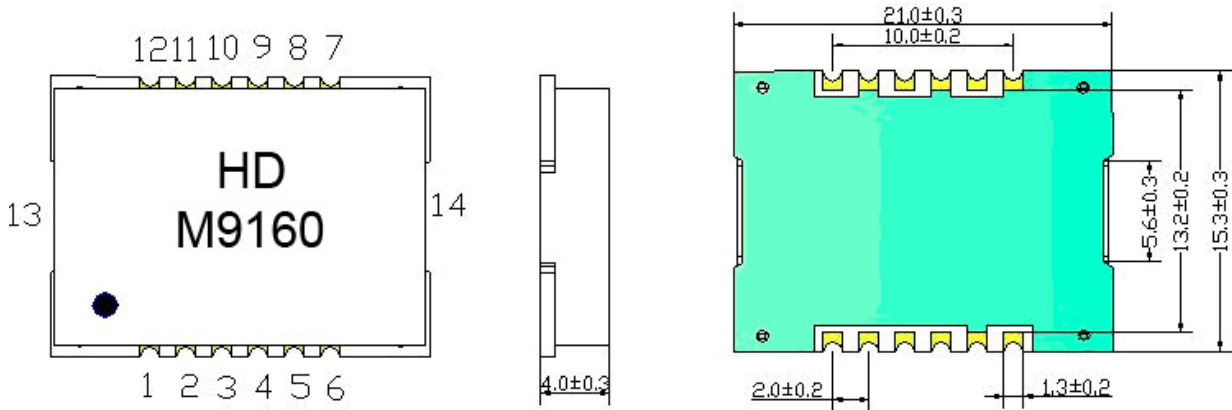
ERASE TITLE

DONE

STOR DEV [DISK]

CANCEL

4. DIMENSION



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

注意事项:

- To Good Grounding
- Good Power Filter
- The maximum Welding Temperature 230 °C, 10S