

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 M9060**
PREPARED 编制: Duchuangang CHECKED 审核: Houshihong
APPROVED 批准: CHARLES DATE 日期: 2008-8-13

| | | |
|-------------------------|-------------|---------|
| 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 |
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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

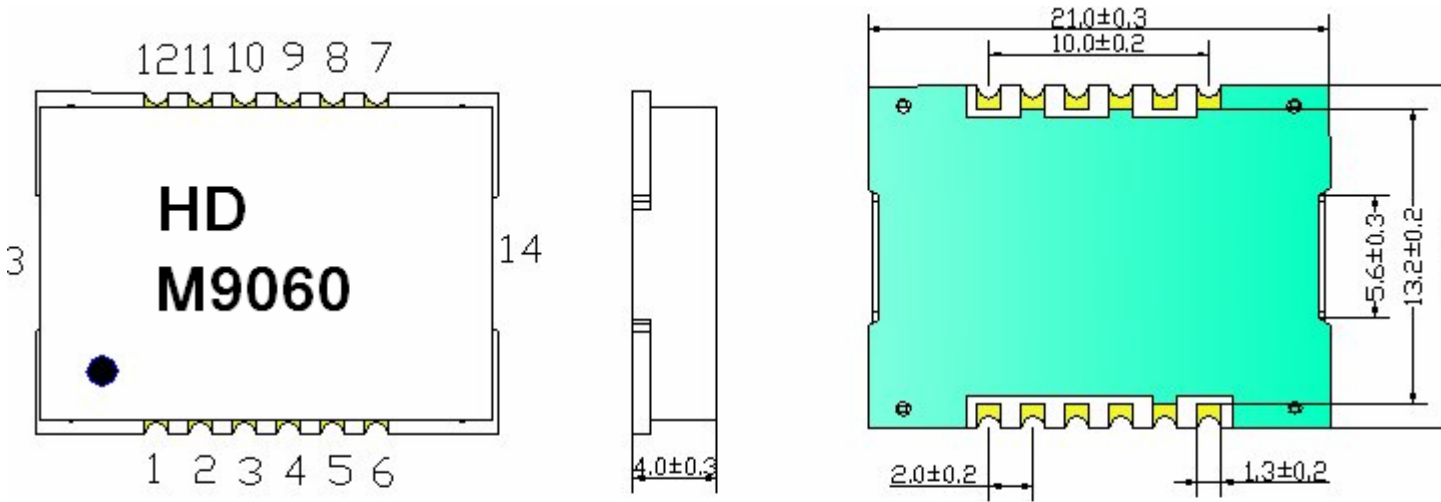
Point to Point Communication Equipment

3. Electrical Specification

Electrical Characteristics

| Parameter | Min | Typ | Max | Units | Remarks |
|-----------------------|------|------|------|----------|------------|
| Frequency Range | 720 | | 800 | MHz | |
| Step Size | | 200 | | KHz | |
| Settling Time | | 0.4 | 0.5 | msec | |
| Output Power: | | | | | |
| | -2 | 0 | 2 | dBm | |
| | -2 | 0 | 2 | dBm | @25C |
| Output Phase Noise: | | | | | |
| 1KHz | | -85 | -80 | dBc/Hz | |
| 10KHz | | -100 | -95 | dBc/Hz | |
| 100KHz | | -123 | -118 | dBc/Hz | |
| 200KHz | | -130 | -125 | dBc/Hz | |
| 1MHz | | -142 | -136 | 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 | 10 | 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 | V _{pll} | 8 | GND |
| 2 | GND | 9 | MUXOUT |
| 3 | REF _{in} | 10 | CLK |
| 4 | GND | 11 | DATA |
| 5 | V _{vco} | 12 | LE |
| 6 | GND | 13 | GND |
| 7 | RF _{out} | 14 | GND |