



• HO-12&15 Series



The HO-12 series oscillator is TTL/HCMOS compatible HO-15 series is with 3.3V powersupply voltage. The metal package with pin #7 case ground acts as shielding to minimize EMI radiation.

FEATURES

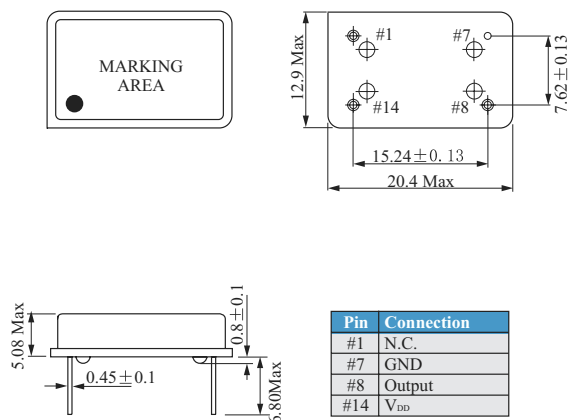
- TTL/HCMOS Output compatible
- 14 Pin Full Size
- Industry Standard
- Wide Frequency Range
- Low Cost
- Resistance Weld Package
- 3.3V available

Electrical Specifications

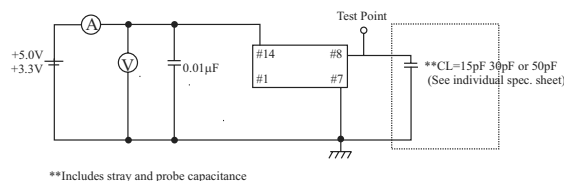
| Parameter | | Condition | HO-12 | HO-15 |
|-----------------------------|------------------|--|--------------------------------------|-------------------------|
| Frequency Range | F _o | | 0.5MHz~100.00MHz | 0.5MHz~125.00MHz |
| Frequency Stability* | | All Condition* | ±25ppm, ±50ppm, ±100ppm | |
| Operating Temperature Range | T _{OPR} | | 0°C~70°C(-40°C~+85°C option) | |
| Storage Temperature Range | T _{STG} | | -55°C~+125°C | |
| Power supply Voltage | V _{DD} | | 5.0V+/-10% | 3.3V+/-10% |
| Aging(First Year) | | 25°C ±3°C | ±5ppm | |
| Supply Current | I _{DD} | 0.5MHz to 23.999MHz | 20mA Max | 15mA Max |
| | | 24.000MHz to 49.999MHz | 30mA Max | 20mA Max |
| | | 50.000MHz to 69.999MHz | 40mA Max | 30mA Max |
| | | 70.000MHz to 125.000MHz | 60mA Max | 45mA Max |
| Output Symmetry | Sym | 1/2V _{DD} | 40/60%(45/55% Option) | |
| Rise time | T _r | 10%V _{DD} ~90%V _{DD} | 10 nS Max | 8 nS Max |
| Fall Time | T _f | 90%V _{DD} ~10%V _{DD} | 10 nS Max | 8 nS Max |
| Output Voltage | V _{OH} | | 90% V _{DD} min | |
| | V _{OL} | | 10% V _{DD} max | |
| Output load | TTL Load | | 1~10TTL | 1~5TTL |
| | HCMOS Load | | ~50M:50pF ~70M:30pF ~100M:15pF | ~50M:30pF ~125M:15pF |
| Start-up Time | | T _s | 10mS Max | |

*Include: 25°C tolerance, operating temperature range, input voltage change, aging, load change, shock and vibration

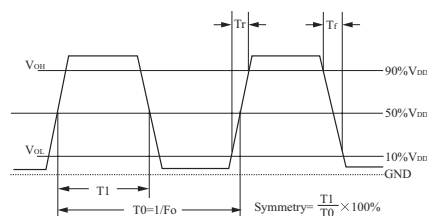
Mechanical Dimensions(mm)



HCOMS Test Circuit



HOCMS Output Waveform



TAIWAN:

HOSONIC ELECTRONIC CO., LTD.
23-1 LANE 84. CHUN YING ST. SHULIN CHEN.
TAIPEI 23804. TAIWAN. R.O.C.

☎: 886-2-86875200
☎: 886-2-26816456

WEB SITE: <http://www.hosonic.com.tw>

CHINA:

HANGZHOU HOSONIC ELECTRONIC CO., LTD.
XUNSHAN LIANGZHU TOWN MOGANSHAN ROAD
HANGZHOU, ZHEJIANG, CHINA

☎: (86)-571-88778189
☎: (86)-571-88778857

Specifications are subject to change without notice

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