

OSCILLATOR UNIT WITH CMOS OUTPUT IN SMD 7.0x5.0mm CERAMIC SEAM SEAL PACKAGE.

PRODUCT FEATURES

- Small dimensions 7.0x5.0x1.3 with 4 solder pads.
- Tight stabilities over temperature range.
- Tri-state enable/ disable function (pad 1).
- Automotive compliance to AEC-Q200 available.
- ROHS compliant, LEAD-FREE, HALOGEN-FREE and REACH compliant.

APPLICATIONS

- DSL / WLAN / Ethernet
- Motherboard
- Notebook / PDA
- VGA card

PRODUCT PHOTO (NOT IN SCALE)



PRODUCT SPECIFICATIONS

| PARAMETER | SUPPLY VOLTAGE | | | REMARKS |
|-----------------------------|--|--------------|--------------|-------------------------------------|
| | 1.8V | 2.5V | 3.3V | |
| Frequency range | 0.137~125MHz | 0.137~133MHz | 0.137~166MHz | 32.768kHz available |
| Frequency stability | ±20ppm / ±25ppm / ±50ppm | | | See note below |
| Operating temperature range | -10 to +60°C / -20 to +70°C / -40 to +85°C | | | Options up to +125°C |
| Aging first year | ±3.0ppm | | | @+25°C |
| Supply current | 7~15mA | 8~18mA | 10~20mA | 1~30~75MHz @15pF |
| | 25mA | 30mA | 35mA | ≥75~133MHz @15pF |
| | --- | 40mA | 45mA | ≥133MHz @15pF |
| Output waveform and load | LVCMOS 15pF | | | 30pF optional |
| Output voltage level HIGH | 1.62V | 2.25V | 2.97V | Minimum |
| Output voltage level LOW | 0.18V | 0.25V | 0.33V | Maximum |
| Rise and Fall times | 5ns | 5ns | 5ns | 1~100MHz @10~90% of V _{CC} |
| | 3ns | 3ns | 3ns | ≥100MHz @10~90% of V _{CC} |
| Symmetry (duty cycle) | 45~55% or 40~60% | | | @ 50%V _{CC} |
| Phase jitter RMS | <1ps | | | 12kHz≤F _j ≤20MHz |

Note: Stability includes frequency deviations at +25°C, over temperature range, due to supply voltage

PACKAGE OUTLINE / DIMENSIONS



PACKAGING INFORMATION

- Tape & Reel compliant to EIA-481.
- Embossed carrier width 16mm.
- Component pitch in carrier 8mm.
- Reel diameter 180mm.
- QTY per reel: 1,000pcs

RECOMMENDED REFLOW PROFILE



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