

FULL SIZE DIP LOW VOLTAGE 3.3V CRYSTAL CLOCK OSCILLATOR

ACOL Series



ESD Sensitive



RoHS/RoHS II compliant



20.2 x 12.6 x 5.08 mm

FEATURES:

- Tristate Enable/Disable option.
- Low supply voltage.
- HCMOS and TTL compatible.
- Tight symmetry option.

APPLICATIONS:

- Clock signal sources for digital chips and microprocessors.
- Low power applications.

STANDARD SPECIFICATIONS:

| Parameters | | Minimum | Typical | Maximum | Units | Notes |
|---|--|---------|---------|---------|-------|-------------------------------|
| Frequency Range | | 0.320 | | 200.000 | MHz | |
| Operating Temperature | | 0 | | +70 | °C | See options |
| Storage Temperature | | -55 | | +125 | °C | |
| Overall Frequency Stability | | -100 | | +100 | ppm | See options |
| Supply Voltage (Vdd) | | 2.97 | 3.3 | 3.63 | V | |
| Input Current | 320.000kHz ~ 24.000MHz | | | 20 | mA | |
| | 24.001MHz ~ 49.999MHz | | | 30 | | |
| | 50.000MHz ~ 79.999MHz | | | 45 | | |
| | 80.000MHz ~ 200.000MHz | | | 55 | | |
| Symmetry @ 1/2Vdd for HCMOS or @ 1.4Vdc for TTL | 320.000kHz ~ 49.999MHz | 45 | | 55 | % | See options |
| | 50.000MHz ~ 200.000MHz | 40 | | 60 | | |
| Rise and Fall Time (Tr/Tf) | 320.000kHz ~ 24.000MHz | | | 10 | ns | |
| | 24.001MHz ~ 200.000MHz | | | 5 | | |
| | 24.001MHz ~ 200.000MHz (50pF output load) | | | 10 | | |
| Output Load | 32.000kHz ~ 79.999MHz | | | 15 | pF | See options |
| | | | | 10 | TTL | |
| | 80.000MHz ~ 200.000MHz | | | 15 | pF | |
| | | | | 5 | TTL | |
| Output Voltage | VOH | 0.9*Vdd | | | V | |
| | VOL | | | 0.1*Vdd | V | |
| Tri-state Function (Option A) | VIH | 2.2 | | | V | "1" or Open: Oscillation |
| | VIL | | | 0.8 | V | "0": Output disable (Hi Z) |
| Output Enable time | | | | 4 | ms | For option A only |
| Output Disable time | | | | 100 | ns | For option A only |
| Startup Time | | | | 10 | ms | |

* Overall frequency stability includes initial tolerance and temperature stability.

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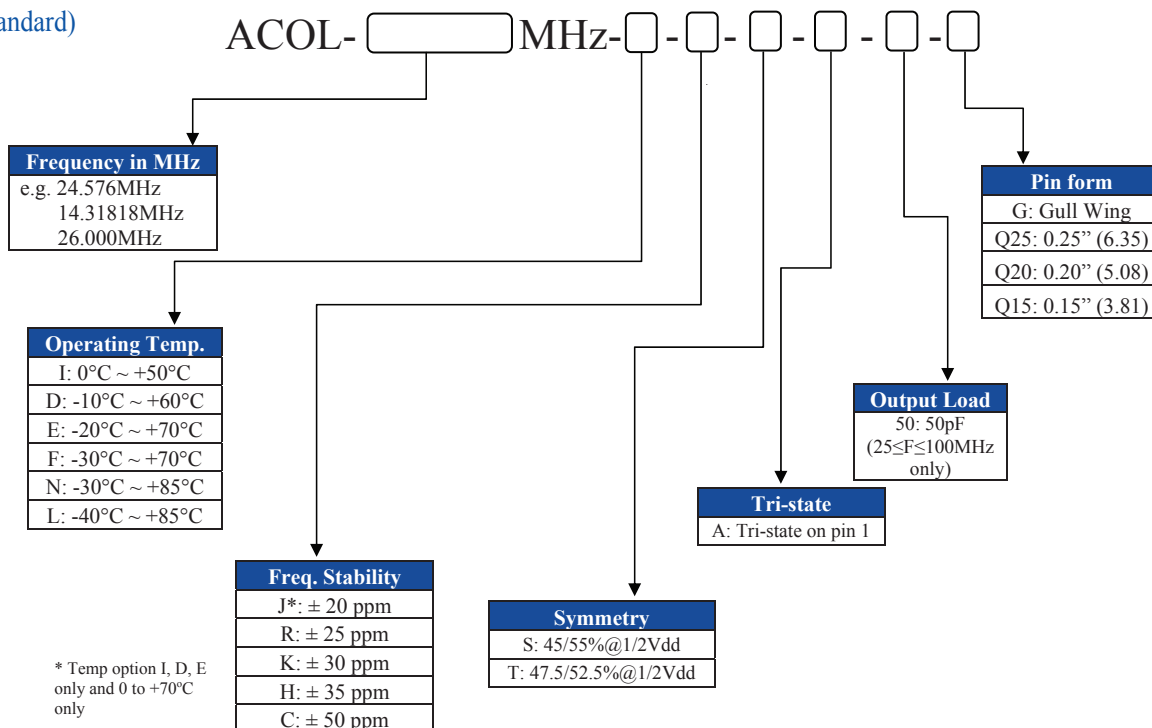
RoHS/RoHS II compliant



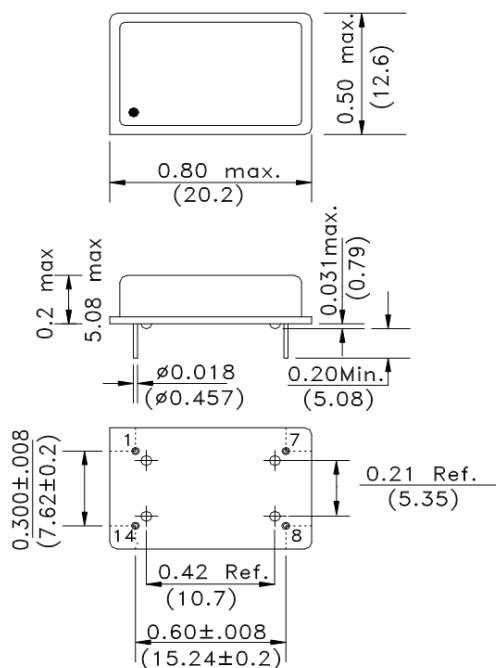
20.2 x 12.6 x 5.08 mm

OPTIONS & PART IDENTIFICATION:

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OUTLINE DIMENSIONS:



| Pin | Function |
|-----|--------------|
| 1 | Tri-State/NC |
| 7 | GND |
| 8 | Output |
| 14 | Vdd |

Note: Recommend using an approximately 0.01uF bypass capacitor between PIN 7 and 14.

Dimensions: inches (mm)

Packaging: 25pcs /tube

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