

HALF SIZE DIP LOW VOLTAGE 5.0V CRYSTAL CLOCK OSCILLATOR



12.7 x 12.7 x 5.6mm

ACH Series



Moisture Sensitivity Level (MSL) – This product is Hermetically Sealed and not Moisture Sensitive - MSL = N/A: Not Applicable

FEATURES:

- Wide frequency range.
- HCMOS and TTL compatible.
- Tight symmetry option.
- Tri-state Enable / Disable function.

APPLICATIONS:

- Microprocessors.
- Digital circuit.

STANDARD SPECIFICATIONS:

| Parameters | | Minimum | Typical | Maximum | Units | Notes |
|-----------------------------|------------------------|----------|---------|---------|-------|----------------------------|
| Frequency Range | | 0.032768 | | 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) | | 4.5 | 5.0 | 5.5 | V | |
| Input Current | 32.768kHz ~ 23.999MHz | | | 30 | mA | |
| | 24.000MHz ~ 49.999MHz | | | 45 | | |
| | 50.000MHz ~ 79.999MHz | | | 70 | | |
| | 80.000MHz ~ 200.999MHz | | | 85 | | |
| Symmetry (@ 1/2Vdd) | 32.768kHz ~ 49.999MHz | 45 | | 55 | % | See options |
| | 50.000MHz ~ 200.000MHz | 40 | | 60 | | |
| Rise and Fall Time (Tr/Tf) | 32.768kHz ~ 1.999MHz | | | 40 | ns | |
| | 2.000MHz ~ 24.000MHz | | | 10 | | |
| | 24.001MHz ~ 200.000MHz | | | 5 | | |
| Output Load | 32.768kHz ~ 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 | 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 |
| Start-up Time | | | 1 | 10 | ms | |

* Overall frequency stability includes initial tolerance and temperature stability.

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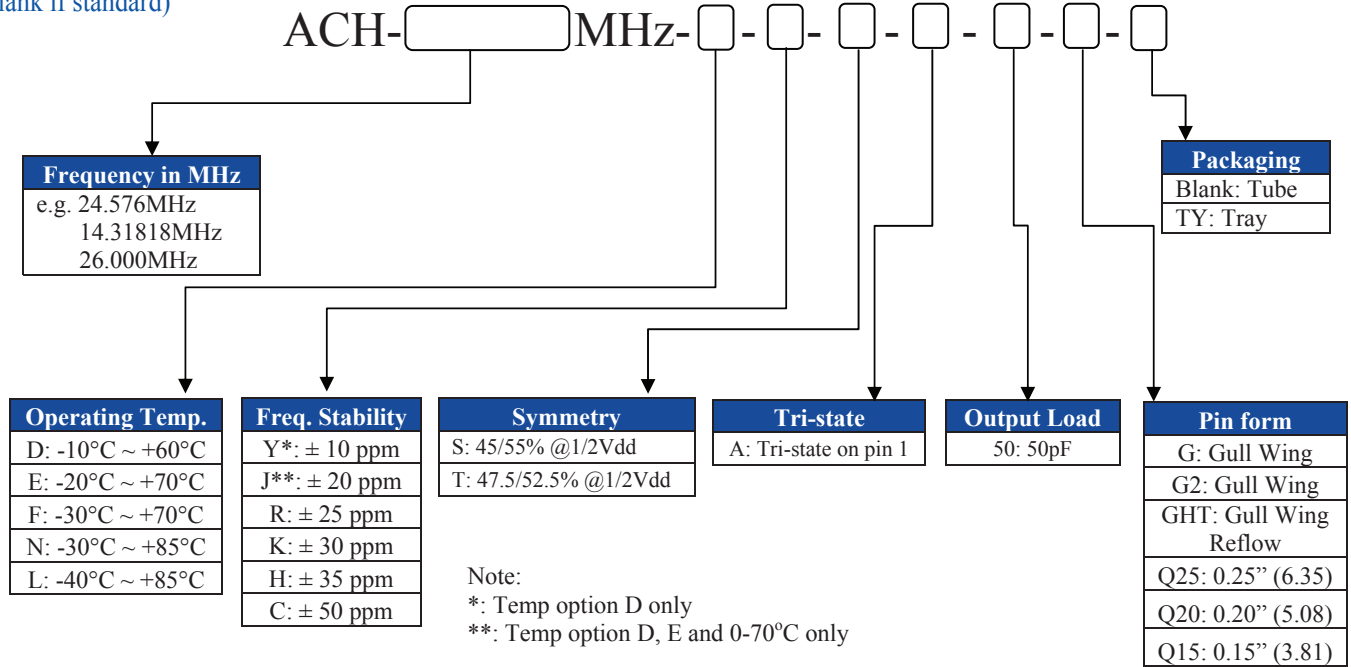
12.7 x 12.7 x 5.6mm

ACH Series

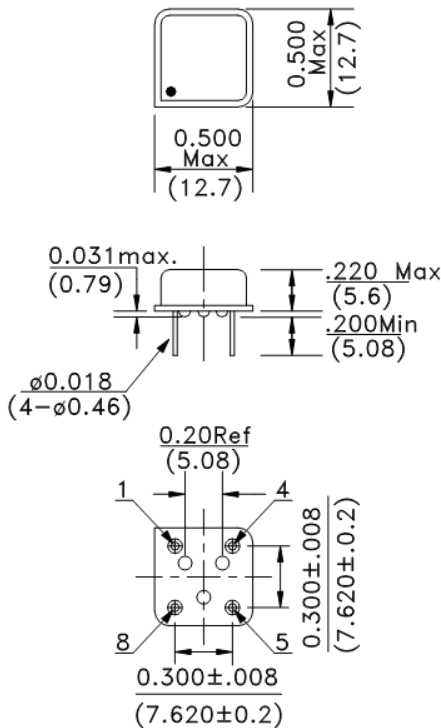
RoHS/RoHS II Compliant

OPTIONS & PART IDENTIFICATION:

(Left blank if standard)



OUTLINE DIMENSION:



| Pin | Function |
|-----|--------------|
| 1 | Tri-State/NC |
| 4 | Case GND |
| 5 | Output |
| 8 | Vdd |

Dimensions: inches (mm)

Packaging: 40pcs /tube

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