

# 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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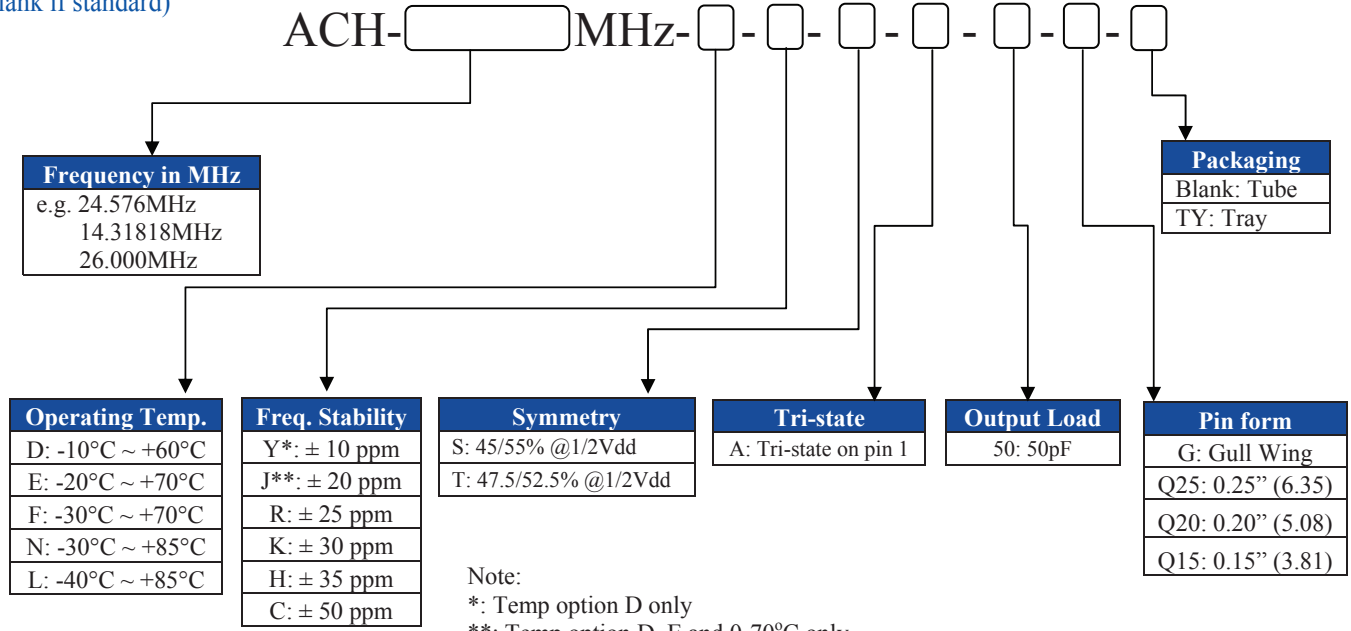
12.7 x 12.7 x 5.6mm

ACH Series

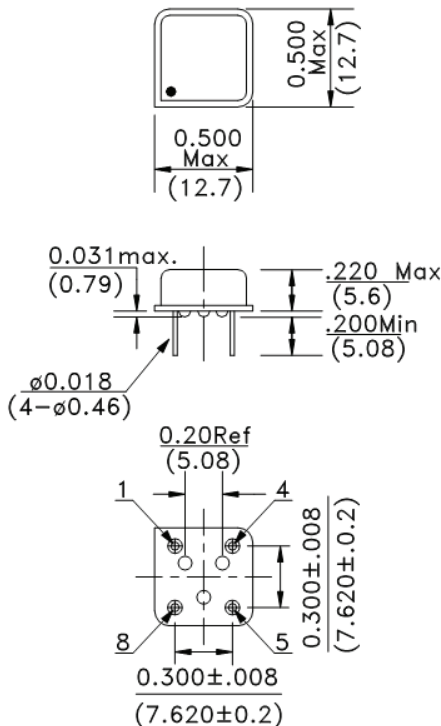
RoHS/RoHS II Compliant

## 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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