



XC5A SERIES (HCOMS/TTL), 5.0 VDC TRISTATE 5 x 7 mm, SMD

FEATURES:

- Wide Frequency Range
- Excellent Jitter Performance
- Military Screening Tests Available

APPLICATIONS::

- Optical Networking, SONET/SDH
- Broadband Data Transmission
- High Shock & Vibration Environments

Frequency Range 1.0 MHz to 105.0 MHz
 Frequency Accuracy Over Operating Temperature See Options Below
 Operating Temperature Range See Options Below
 Storage Temperature Range -62 °C to +125 °C

Input Voltage + 5.0 VDC ± 10%
 Input Current @ +5.0 VDC (No Load)
 1.0 MHz to 8.0 MHz 4 mA Max.
 8.1 MHz to 32.0 MHz 10 mA Max.
 32.1 MHz to 64.0 MHz 40 mA Max.
 64.1 MHz to 105.0 MHz 60 mA Max.

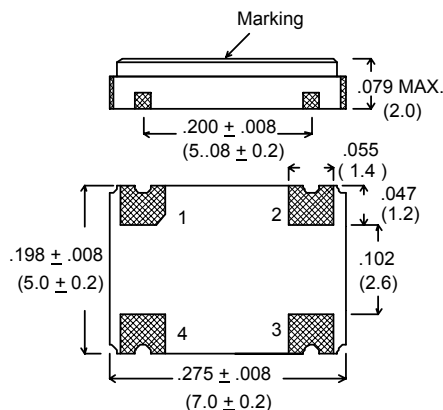
Output HCMOS/TTL Compatible
 Output Load HCMOS (15 pf) or 8 TTL loads Max.
 High Level 0.9 V_{DD} Min.
 Low Level 0.1 V_{DD} Max.
 Symmetry @ 50% Level 60/40% (55/45% Optional)
 Rise & Fall Times (10% to 90% of Output)
 ≤ 40 MHz 7 nS Max.
 > 40 MHz 5 nS Max.

Enable / Disable Input Function
 Open or High (> 2.2V) Normal Output
 Low (< 0.8 V) Output disabled into a HI-Z state

Start-Up Time 10 mS Max.
 Phase Jtter (RMS, 10 KHz to 20 MHz Integrated) 0.3 pS Typical

Aging @ +25 °C ± 0.0005% (± 5 PPM) / year Max.

Package – Seal Hermetic, Conforms to MIL-PRF-55310
 Pad Finish 0.3 μm Min. gold plate over Nickel
 Solder Reflow Temp/Time 260 °C Max for 10 Seconds Max.



Dimensions are in inches (mm)
 All dimensions are typical unless otherwise specified

Pad #	Function
1	E/D
2	GND
3	OUTPUT
4	V _{DD}

An External 0.01uF Bypass Capacitor is required between V_{DD} and GND.

Contact Xsis Engineering for special requirements such as, Output Symmetry, Start-up Time, Frequency Accuracy, Complementary Outputs, Multiple Outputs, etc.

ORDERING INFORMATION (Select from options below) :



Frequency Accuracy Options

- 1 = ± 50 PPM -10 °C to +70 °C
- 2 = ± 25 PPM -10 °C to +70 °C
- 3 = ± 100 PPM -40 °C to +85 °C
- 4 = ± 50 PPM -40 °C to +85 °C
- 5 = ± 25 PPM -40 °C to +85 °C
- 6 = ± 100 PPM -55 °C to +125 °C
- 7 = ± 75 PPM -55 °C to +125 °C
- 8 = ± 20 PPM -40 °C to +85 °C
- 9 = ± 50 PPM -55 °C to +105 °C

Symmetry Options

- A = 60/40%
- B = 55/45%

Screening Options

- X = No Screening
- M = 100% Screening

Example: XC5A - 3AM - 24.000 MHz = HC/ACMOS/TTL, 5 VDC, Tristate Output, 60/40% Symmetry ± 100 PPM Frequency Accuracy Over -40°C to +85 °C, 100% Screened