

CRYSTAL CLOCK OSCILLATORS



ACPEL



RoHS
Compliant

20 X 12.6 X 7.2mm

FEATURES:

- Low jitter PECL logic
- Tight overall frequency stability
- Fast rise and fall times
- Complementary output
- Wide frequency range.

APPLICATIONS:

- Gigabit ethernet
- Data telecommunications and networking
- xDSL, Stratum IV
- SONET/SDH

STANDARD SPECIFICATIONS:

| PARAMETERS | |
|------------------------------|------------------------------|
| ABRACON P/N | ACPEL Series |
| Frequency | 0.75 MHz - 800 MHz |
| Operating Temperature | 0°C to +70°C (see options) |
| Storage Temperature | -55°C to +125°C |
| Frequency Stability | ± 100 ppm max. (see options) |
| Supply Voltage (Vdd) | 3.3Vdc ±5% |
| Supply Current | 60 mA max. @100MHz |
| Symmetry | 40/60% max. |
| Rise and Fall Times (Tr/ Tf) | 1 ns max. @ 20~80%Vpp |
| Output Type | PECL square wave |
| Output Load | 50Ω @Vcc -2Vdc |
| Aging | ± 3.0ppm max./ year |

OPTIONS AND PART IDENTIFICATION:

ACPEL - Frequency - □ - □ - □ - □

| Temperature Options | |
|---------------------|----------------|
| I | 0°C to +50°C |
| D | -10°C to +60°C |
| E | -20°C to +70°C |
| F | -30°C to +70°C |
| N | -30°C to +85°C |
| L | -40°C to +85°C |

| Freq. Stability | |
|-----------------|--------------|
| J* | ±20 ppm max. |
| R | ±25 ppm max. |
| K | ±30 ppm max. |
| H | ±35 ppm max. |
| C | ±50 ppm max. |

* Temp option I, D and E only

| Lead Option | |
|-------------|------------|
| G* | Gull Wing |
| Q30 | 0.30(7.62) |
| Q25 | 0.25(6.35) |
| Q20 | 0.20(5.08) |
| Q15 | 0.15(3.81) |
| Q10 | 0.10(2.54) |

| PIN1 Option | |
|-------------|----------------------|
| Blank | N/C |
| QBAR | Complementary output |

* Solder composition Sn/Ag/Cu can only be used for G option.
Must be capable for IR or Wave Reflow methods.

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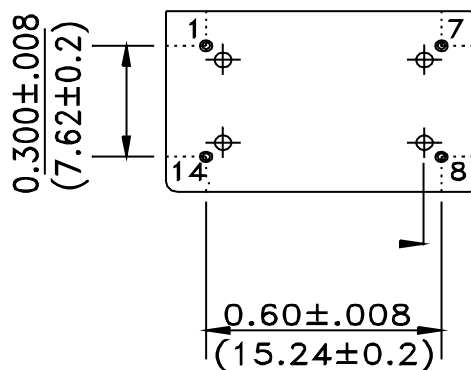
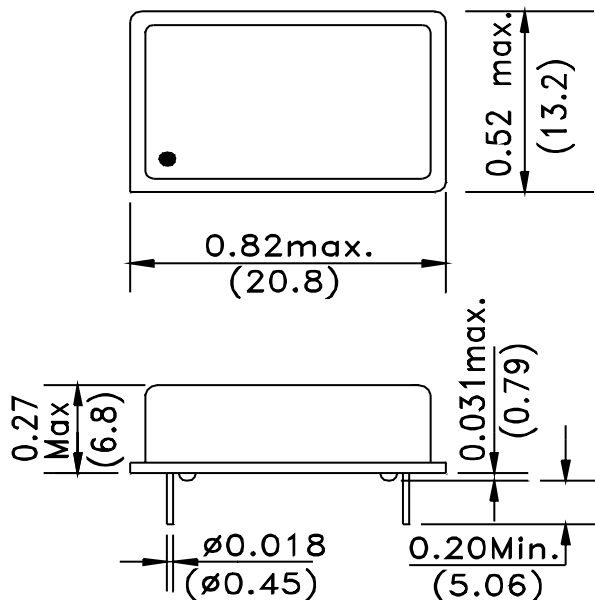


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OUTLINE DRAWING:



| PIN | FUNCTION |
|-----|-------------------|
| 1 | NC or Comp output |
| 7 | GND |
| 8 | Output |
| 14 | Vcc |

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

Dimensions: inch (mm)

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