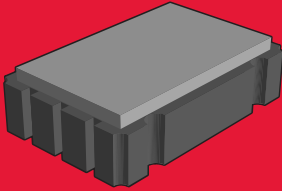




RXDPR375, PR575 SERIES

FEATURES

- Programmable (2 Times)
- 3.3 V & 5 V options
- PLL technology
- 5 x 7.5 mm footprint
- Extended temp range



PROGRAMMABLE SMD CLOCK OSCILLATOR

The RXDPR375 (3.3V) and PR575 (5V) is our miniature, twice programmable crystal controlled oscillator. The miniature, very low profile leadless ceramic package is ideal for today's SMD manufacturing environment.

PART NUMBERING GUIDE "EXAMPLE"

| PART NUMBER | SERIES | STABILITY | TEMP RANGE (OPTION) | FREQUENCY |
|-------------|--------|-----------|---------------------|------------|
| RXD | PR375 | - A | - E | 24.576 MHz |

Sample Part Number: RXD PR375-A-E 24.576

OPERATING CONDITIONS/ELECTRICAL CHARACTERISTICS

| PARAMETERS | CONDITIONS | RXDPR375 (3.3V) | | | RXDPR575 (5V) | | | UNITS |
|-----------------------|---------------------|-----------------|------|---------|---------------|------|---------|--------|
| | | MIN | TYP | MAX | MIN | TYP | MAX | |
| FREQUENCY RANGE | | 1.000 | | 125.000 | 1.000 | | 150.000 | MHz |
| FREQUENCY STABILITY* | Option A | | | ±100 | | | ±100 | PPM |
| | Option B** | | | ±50 | | | ±50 | PPM |
| OPERATING TEMPERATURE | Standard | -10 | | +70 | -10 | | +70 | °C |
| | Extended (Option E) | -40 | | +85 | -40 | | +85 | °C |
| STORAGE TEMPERATURE | | -55 | | +125 | -55 | | +125 | °C |
| INPUT VOLTAGE (Vcc) | | +2.97 | +3.3 | +3.63 | +4.5 | +5.0 | +5.5 | VDC |
| INPUT CURRENT | | | | 28 | | | 45 | mA |
| OUTPUT SYMMETRY | at 1/2 Vcc Level | 40/60 | | 60/40 | 40/60 | | 60/40 | % |
| RISE AND FALL TIMES | 20% Vcc to 80% Vcc | | | 4 | | | 4 | ns |
| JITTER | 1.0 - 33.0 MHz | | ±100 | ±250 | | ±100 | ±250 | pS p-p |
| | > 33.1 MHz | | ±50 | ±100 | | ±50 | ±100 | pS p-p |
| "0" LEVEL | | | | 0.4 | | | 0.4 | Vdc |
| "1" LEVEL | | 2.7 | | | Vcc - 0.5 | | | Vdc |
| LOAD (HCMOS) | 1.0 - 50.0 MHz | | | 30 | | | 50 | pF |
| | > 50.1MHz | | | 15 | | | 15 | pF |
| ENABLE/DISABLE TIME | | | | 150 | | | 100 | ns |
| START-UP TIME | | | | 10 | | | 10 | ms |

* Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change aging, shock and vibration.

** Not available with extended range option.

PACKAGE DIMENSIONS (mm)

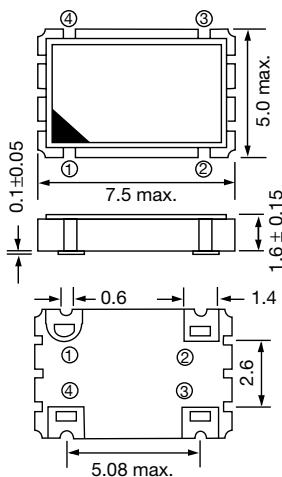


Figure 1) Top, Side and Bottom views

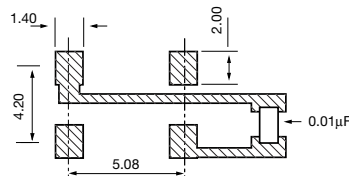


Figure 2) Land Pattern

RXDPR375 (3.3 V) TRI-STATE CONTROL VOLTAGE

| | |
|--------------------|---------------------|
| PIN #1 = OPEN | #3 = OUTPUT |
| PIN #1 = +0.7V MIN | #3 = OUTPUT |
| PIN #1 = +0.2V MAX | #3 = HIGH IMPEDANCE |

RXDPR575 (5 V) TRI-STATE CONTROL VOLTAGE

| | |
|--------------------|---------------------|
| PIN #1 = OPEN | #3 = OUTPUT |
| PIN #1 = +2.0V MIN | #3 = OUTPUT |
| PIN #1 = +0.8V MAX | #3 = HIGH IMPEDANCE |

PIN CONNECTIONS

| | |
|----|-----------|
| #1 | TRI-STATE |
| #2 | GND |
| #3 | OUTPUT |
| #4 | VCC |