

# SMD 2016 Crystal Oscillator



**Size: 2.0×1.6×0.75 mm      1N Series SMD Crystal Oscillator**

## Features

- 2016 size, 0.75mm high, extremely small SMD seam sealed clock oscillator unit.
- Low voltage operation.
- Available frequency range: 4MHz ~54MHz
- 2-state function.
- Automatic mounting and reflow soldering.
- High reliable environmental performance.
- Applications: GPS, WiMax, Cellular, Wireless communications, Smart Phone, etc.
- Low current consumption.
- RoHS Compliant / Pb-Free.

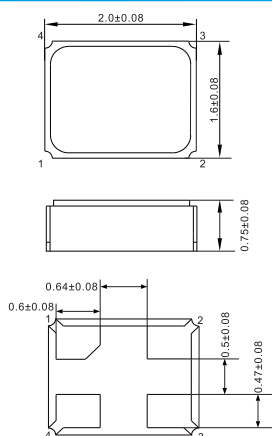


## Electrical Specifications

| Item /Type                      | 1N (SMD 2016 Crystal Oscillator) |
|---------------------------------|----------------------------------|
| Output Type                     | CMOS                             |
| Output Load                     | 15pF, or specify                 |
| Oscillation Mode                | Fundamental                      |
| Supply Voltage                  | 3.3V (1.8V, 2.5V available)      |
| Frequency Range                 | 4 ~ 54 MHz                       |
| Frequency stability             | ±25ppm, ±50ppm                   |
| Operating Temperature Range     | -20~+70°C, -40~+85°C, or specify |
| Storage Temperature Range       | -55~+125°C                       |
| Voltage Vol (Max.) / Voh (Min.) | 0.1VDD / 0.9VDD                  |
| Rise(Tr) / Fall(Tf) Time        | 5ns Max.                         |
| Supply Current                  | 5mA Max.                         |
| Symmetry                        | 45~55%                           |
| Start-up Time                   | 5ms Max.                         |
| Phase Jitter (12KHz~20MHz)      | 1ps Max.                         |
| Aging (at 25°C)                 | ±3ppm/Year Max.                  |

## Dimensions

Units:mm



PAD FUNCTION:  
 1: ENABLE CONTROL  
 2: GND  
 3: OUT  
 4: VDD

