

■ Features

- ★ Small size
- ★ Stable frequency
- ★ Cold welding package
- ★ Reliable performance

■ Application

- ★ Telecommunication system
- ★ Base station
- ★ Satellite systems



■ Specification (Characteristics)

FREQUENCY CHARACTERISTICS

| Parameters | Min | Max | Units | Condition |
|--------------------------------------|---|---------------------------|----------------------|----------------------|
| Frequency range | 10.0 | 100 | MHz | |
| Frequency calibration | 0.02(SC) / 0.05 (AT) | | ±ppm | @25°C |
| Frequency stability over temperature | ±30, ±75, ±100, ±200, ±300 ppb (AT cut) ±20, ±50, ±75, ±100, ±350 ppb (SC cut) | | | |
| Supply voltage stability | | 0.05 | ±ppm | ±5%@25°C |
| Load sensitivity | | 0.05 | ±ppm | ±10%@25°C |
| Short term stability | 2E ⁻⁹ /S | | 5E ⁻¹⁰ /S | |
| Aging/year | AT Cut | ≤±0.5 ppm/year (standard) | | ≤±0.03 ppm/day(max) |
| | SC Cut | ≤±0.1 ppm/year (standard) | | ≤±0.005 ppm/day(max) |

POWER SUPPLY

| Parameters | Min | Max | Units |
|----------------|----------|-------|---------|
| Supply voltage | +3.0 | +12.0 | V±5% |
| Current | Start up | 150 | 600 |
| | Steady | 60 | 200 |
| | | | mA@25°C |

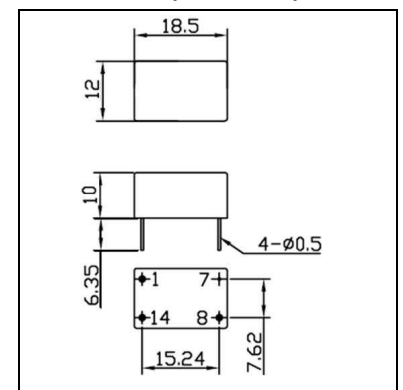
OSCILLATOR OUTPUT

| Parameters | Min | Max | Units |
|------------------------|----------|-----------------|-----------|
| Output waveform | S : Sine | C: clipped Sine | M : CMOS |
| Output load resistance | 50Ω | 10kΩ//10pF | 1kΩ//15pF |

■ Part Number and Ordering

| Part Number Code | Holder Type + Frequency + Tolerance + Stability VS Temp. + Operating Temp. + PPM/VDC + Input Voltage |
|------------------|---|
| Ordering Code | Same as Above |
| Example | OCXO-D14-25.0M-0.3-0.1-0/70-15/5-5V |

■ Dimension (Unit: mm)



■ Pin Connection

| | |
|--------|--------------------|
| PIN 1 | V control (or N/C) |
| PIN 7 | GND |
| PIN 8 | Freq output |
| PIN 14 | Supply voltage |