

3.2x2.5mm



Pb Free

RoHS Conforming

Features

- Ultra-miniature SMD Type (3.2x2.5x1.0mm)
- Reflow compatible
- AFC function available
- 2.3 to 3.5V drive available
- Frequency Stability : ±2.0ppm at -30°C to +85°C

Applications

- PDC, GSM, CDMA

How to Order

KT21 - D C V 30 □ - 19.680M - T
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Series

| | |
|----------|---------|
| K | ±5ppm |
| E | ±2.5ppm |
| D | ±2.0ppm |

③ Lower operating temp

| | |
|----------|-------|
| C | -30°C |
| E | -20°C |
| G | -10°C |

④ Upper operating temp

| | |
|----------|------|
| W | 85°C |
| V | 80°C |
| U | 75°C |

⑤ Supply Voltage

| | | | |
|-----------|------|-----------|------|
| 28 | 2.8V | 30 | 3.0V |
|-----------|------|-----------|------|

⑥ Option Code

⑦ Frequency(MHz)

| | | |
|--------|--------|--------|
| 12.600 | 19.200 | 26.000 |
| 13.000 | 19.440 | 38.400 |
| 14.400 | 19.680 | |
| 16.800 | 19.800 | |

⑧ Packaging

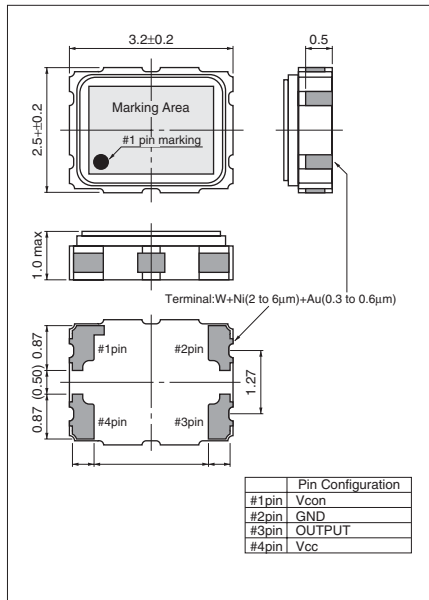
| | |
|----------|---------------|
| T | Tape & Reel |
| | 2,000pcs/Reel |

Specifications

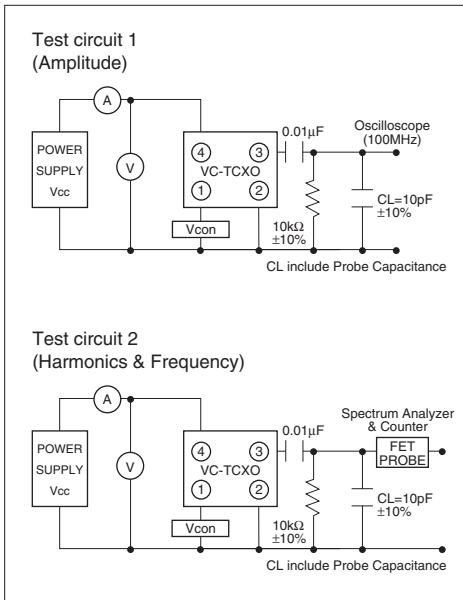
| Item | Symbol | Conditions | Min. | Max. | Units |
|------------------------|-------------------|----------------------|------|-------|-------|
| Output Frequency Range | F _{OUT} | | 12.6 | 38.4 | MHz |
| Frequency Stability | Δf/f ₀ | vs Temperature | -2.0 | +2.0 | ppm |
| | | vs Load | -0.2 | +0.2 | |
| | | vs Voltage | -0.3 | +0.3 | |
| Storage Temp. Range | T _{STG} | | -40 | +85 | °C |
| Operating Temp. Range | T _{OPR} | | -30 | +85 | °C |
| Aging | Δfaging | Per Year | -1 | 1 | ppm |
| Voltage control range | Δf/V | Positive | +/-8 | +/-15 | ppm |
| Supply Voltage | V _{DD} | | 2.3 | 3.5 | Volt |
| Output Voltage | V _{out} | 10k ohm // 10pF | 0.8 | — | Vp-p |
| Current Consumption | I _{DD} | | — | 2.0 | mA |
| Duty Ratio | SYM | @50% V _{DD} | 40 | 60 | % |
| Harmonics | — | | — | -5 | dBc |

Dimensions

(Unit : mm)



Test Circuit



Recommended Land Pattern

(Unit : mm)

