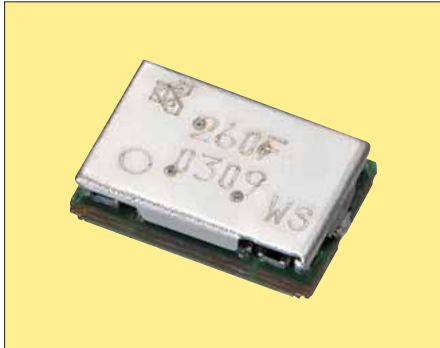


5.0×3.2mm



Pb Free

RoHS Comforming

Features

- Miniature SMD Type (5.0x3.2x1.5mm)
- Reflow compatible
- AFC function available
- 2.7V/2.8V/3.0V drive available
- Frequency Stability : ±2ppm at -30°C to +80°C
- Phase Noise -140dBc/Hz @1kHz offset(max)

Applications

- GSM, CDMA

How to Order

KT20A - D C V 30 □ - 19.680M - T
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Series

② Frequency stability

| | |
|----------|---------|
| 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

| | |
|----------|------|
| V | 80°C |
| T | 70°C |
| R | 60°C |

⑤ Supply Voltage

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

⑥ Option Code

| | | |
|------------------|--------|--------|
| ⑦ Frequency(MHz) | | |
| 19.200 | 19.680 | 26.000 |
| 19.440 | 19.800 | |

⑧ Packaging

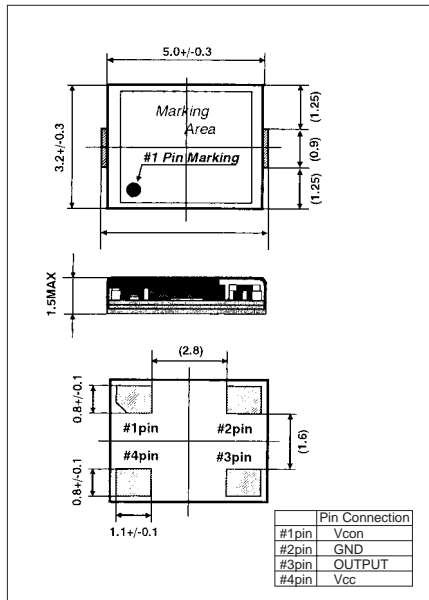
| | |
|----------|---------------|
| T | Tape & Reel |
| | 4,000pcs/Reel |

Specifications

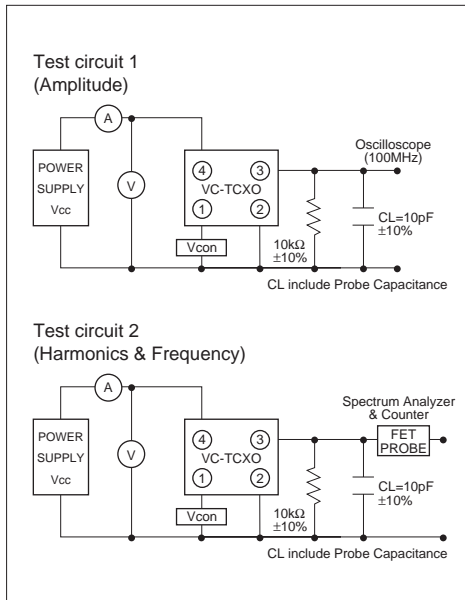
| Item | Symbol | Conditions | Min. | Max. | Units |
|------------------------|------------------|----------------------|------|-------|-------|
| Output Frequency Range | F _{OUT} | | 19.2 | 26 | MHz |
| Frequency Stability | Δf/fo | vs Temperature | -2.0 | +2.0 | ppm |
| | | vs Load | -0.2 | +0.2 | |
| | | vs Voltage | -0.3 | +0.3 | |
| Storage Temp. Range | T _{STG} | | -30 | +80 | °C |
| Operating Temp. Range | T _{OPR} | | -40 | +85 | °C |
| Aging | Δfaging | Per Year | -1 | 1 | ppm |
| Voltage control range | Δf/V | Positive | +/-8 | +/-15 | ppm |
| Supply Voltage | V _{DD} | | 2.8 | 3 | Volt |
| Output Voltage | V _{out} | 10k ohm // 10pF | 0.8 | - | Vp-p |
| Current Consumption | I _{DD} | | - | 1.5 | mA |
| Duty Ratio | SYM | @50% V _{DD} | 40 | 60 | % |
| Harmonics | - | | - | -5 | dBc |

Dimensions

(Unit : mm)



Test Circuit



Recommended Land Pattern

(Unit : mm)

