

MHz RANGE CRYSTAL UNIT

FA-20H



Product Number
Q24FA20H0xxxx18

- Nominal frequency range : 12 MHz to 54 MHz
- External dimensions : 2.5× 2.0×0.55 mm
- Overtone order : Fundamental
- Applications : Mobile phone, Bluetooth, W-LAN ISM band radio, Clock for MPU



Specifications (characteristics)

| Item | Symbol | Specifications | | Conditions / Remarks |
|--|------------------|--|------------------------|---|
| | | For RF Reference | For Clock | |
| Nominal frequency range | f _{nom} | 12.000 MHz to 54.000 MHz | | Fundamental Please contact us about available frequencies. |
| Storage temperature range | T _{stg} | -40 °C to +125 °C | | Storage as single product. |
| Operating temperature range | T _{use} | -40 °C to +85 °C (+105 °C) | | Please contact us about +85 °C < T _{use} |
| Level of drive | DL | 100 μW Max. | 200 μW Max. | Recommended: 1 μW to 100 μW |
| Frequency tolerance | f _{tol} | ±10 × 10 ⁻⁶ | ±30 × 10 ⁻⁶ | +25 °C Please contact us for inquiries. |
| Frequency versus temperature characteristics | f _{tem} | ±10 × 10 ⁻⁶ | ±30 × 10 ⁻⁶ | -20 °C to +75 °C Please contact us for inquiries. |
| Load capacitance | CL | 6 pF to ∞ | | Please specify. |
| Motional resistance (ESR) | R1 | As per table below | | -20 °C to +75 °C |
| Frequency aging | f _{age} | ±1 × 10 ⁻⁶ to ±3 × 10 ⁻⁶ /year Max. *1 | | +25 °C, First year |

*1 Please contact us for available frequency tolerances as they are dependent upon the nominal frequency.

Motional resistance (ESR)

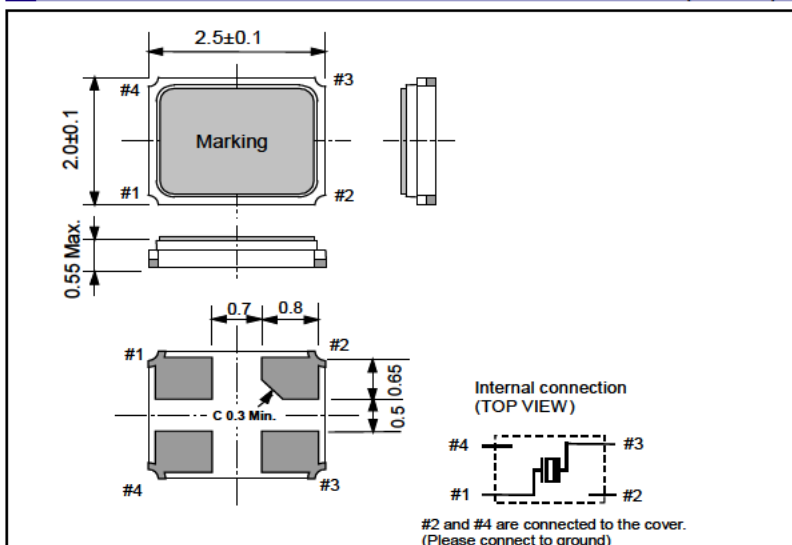
| Frequency | Motional resistance |
|--|---------------------|
| 12.0 MHz ≤ f _{nom} < 16.0 MHz | 150 Ω Max. |
| 16.0 MHz ≤ f _{nom} ≤ 25.0 MHz | 80 Ω Max. |
| 25.0 MHz < f _{nom} ≤ 30.0 MHz | 60 Ω Max. |
| 30.0 MHz < f _{nom} ≤ 35.0 MHz | 50 Ω Max. |
| 35.0 MHz < f _{nom} ≤ 54.0 MHz | 40 Ω Max. |

Product name FA-20H 24.000000MHz 12.0 +10.0-10.0
(Standard form) ① ② ③ ④

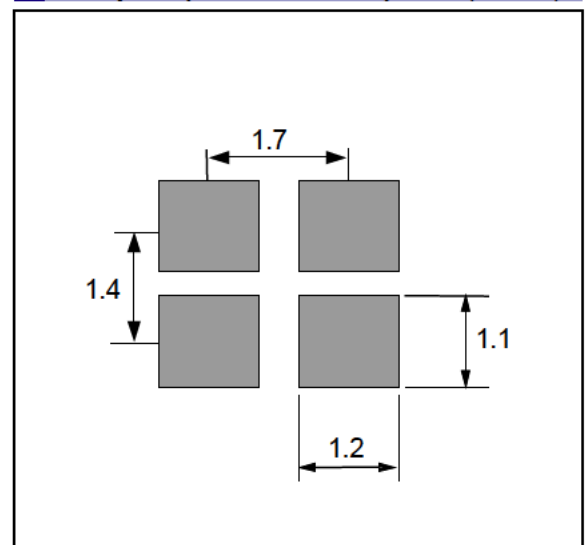
①Model ②Frequency ③Load capacitance(pF) ④Frequency tolerance(× 10⁻⁶, +25 °C)

In addition to the above mentioned specification item, please specify frequency temperature characteristics and operating temperature range in case of inquiry.

External dimensions (Unit:mm)



Footprint (Recommended) (Unit:mm)



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