

Features

Frequency range : 8MHz to 54MHz
 Glass sealing, ceramic SMD package
 External dimensions (mm)
 L : 3.2 x W : 2.5 x H : 0.8
 RoHS compliant
 Contains Pb, exempted by RoHS directive

Applications

PC, TV, Game, Camera
 Notebook, Hard disk
 Computer peripherals
 Home electronics
 Consumer products

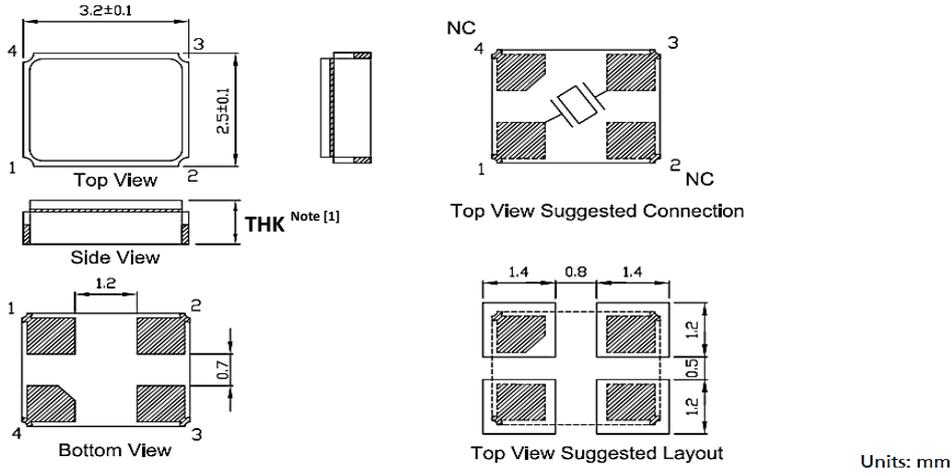
Electrical Characteristics

| Item | | 7V | Conditions |
|----------------------------------------------------------------------|----------------|--------------------------------------------------------------|--------------------------------------------|
| Frequency Range | F_0 | 8MHz ~ 54MHz | |
| Frequency Tolerance | F_{tol} | $\pm 30\text{ppm}$, $\pm 20\text{ppm}$, $\pm 10\text{ppm}$ | at 25°C |
| Frequency Stability over Operating Temperature Range (refer to 25°C) | F_{stab} | $\pm 30\text{ ppm}$ | -20°C ~ +70°C |
| | | $\pm 20\text{ ppm}$ | |
| | | $\pm 10\text{ ppm}$ | |
| | | $\pm 10\text{ ppm}$ | -30°C ~ +85°C |
| | | $\pm 50\text{ ppm}$ | -40°C ~ +85°C |
| | | $\pm 30\text{ ppm}$ | |
| | | $\pm 20\text{ ppm}$ | |
| $\pm 60\text{ ppm}$ | -40°C ~ +125°C | | |
| Operating Temperature Range | T_{OTR} | -20°C ~ +70°C | |
| | | -30°C ~ +85°C | |
| | | -40°C ~ +85°C | |
| | | -40°C ~ +125°C | |
| Shunt Capacitance | C_0 | 3pF Max. | |
| Drive Level | D_L | 1 ~ 50 μ W (10 μ W Typ.) | |
| Load Capacitance | C_L | 6pF, 7pF, 8pF, 9pF, 10pF 12pF, 16pF, 18pF, 20pF | |
| Aging | F_{aging} | $\pm 3\text{ ppm Max.}$ | at 25°C $\pm 3^\circ\text{C}$, first year |
| Storage Temperature Range | T_{STR} | -55°C ~ +125°C | |

Motional Resistance (ESR)

| Fundamental | |
|-------------|-------------------|
| 8 ~ 9 MHz | 350 Ω Max. |
| 9 ~ 10 MHz | 200 Ω Max. |
| 10 ~ 12 MHz | 150 Ω Max. |
| 12 ~ 16 MHz | 100 Ω Max. |
| 16 ~ 54 MHz | 60 Ω Max. |

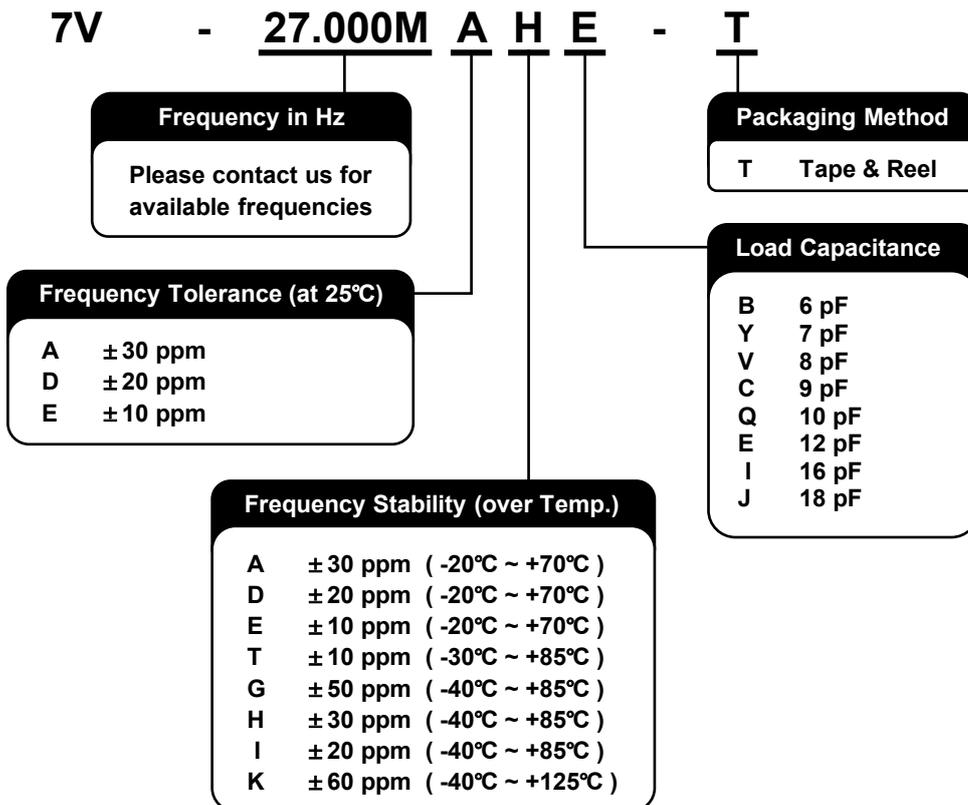
Dimensions



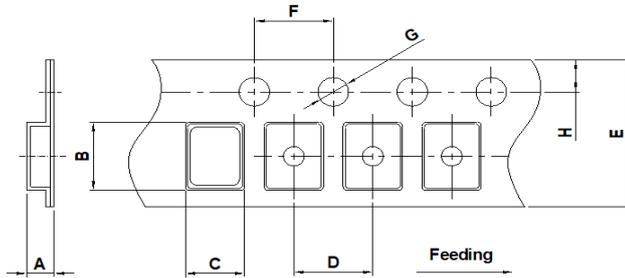
Note:

- [1] THK = 0.8 ± 0.1mm except F₀ = 8MHz.
THK = 0.9 ± 0.1mm for F₀ = 8MHz.

Ordering Information

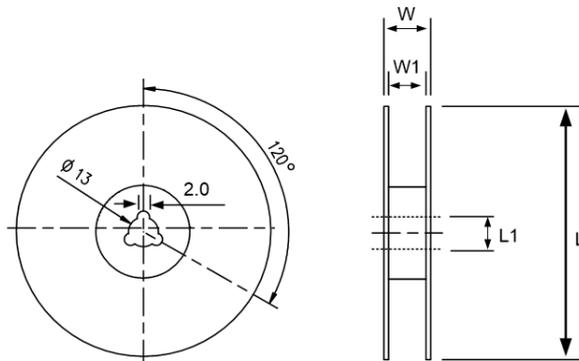


Packing



| DIMENSIONS | A | B | C | D | E | F | G | H |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | 1.65±0.10 | 3.40±0.10 | 2.70±0.10 | 4.00±0.10 | 8.00±0.20 | 4.00±0.10 | 1.55±0.10 | 1.75±0.10 |

(Unit: mm)



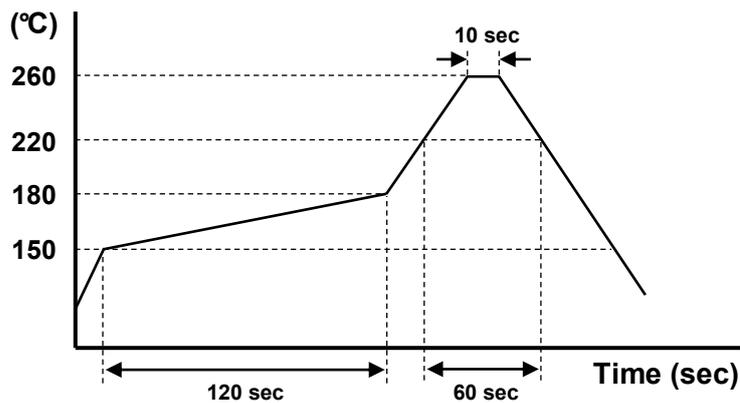
| DIMENSIONS | L | L1 | W | W1 |
|------------|----------|---------|-----------|--------|
| | 178±1.00 | 13±0.50 | 11.5±0.20 | 8±0.10 |

(Unit: mm)

Reflow Profile

Solder melting point : 220°C ± 10°C, 60 sec. Min.

Peak temperature : 260°C ± 5°C, 10 sec. Min.



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