

### Features

Frequency range : 12MHz to 66MHz  
 Ceramic SMD package  
 Seam sealing  
 External dimensions (mm)  
 L : 2.5 x W : 2.0 x H : 0.55  
 RoHS compliant & Pb free

### Applications

Bluetooth, Wireless LAN  
 Microprocessor  
 Mobile phone, Computer, Modem  
 Audio, Video  
 Consumer products

### Electrical Characteristics

| Item   |                     | 8Z   | Conditions    |
|--|---------------------|--|---------------|
| Frequency Range  | $F_0$               | 12MHz ~ 66MHz  |               |
| 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 |
|  |                     | $\pm 30\text{ ppm}$  | -40°C ~ +85°C |
|  |                     | $\pm 20\text{ ppm}$  |               |
|  | $\pm 60\text{ ppm}$ | -40°C ~ +125°C   |               |
| Operating Temperature Range  | $T_{OTR}$           | -20°C ~ +70°C  |               |
|  |                     | -40°C ~ +85°C  |               |
|  |                     | -40°C ~ +125°C   |               |
| Shunt Capacitance  | $C_0$               | 3pF Max.   |               |
| Drive Level  | $D_L$               | 1 ~ 200μW (100μW Typ.)                                       |               |
| Load Capacitance   | $C_L$               | 6pF, 8pF, 10pF<br>12pF, 16pF, 18pF, 20pF                     |               |
| Aging (at 25°C ± 3°C, first year)                                    | $F_{aging}$         | $\pm 3\text{ppm Max.}$                                       | Note [1]      |
| Storage Temperature Range  | $T_{STR}$           | -55°C ~ +125°C   |               |

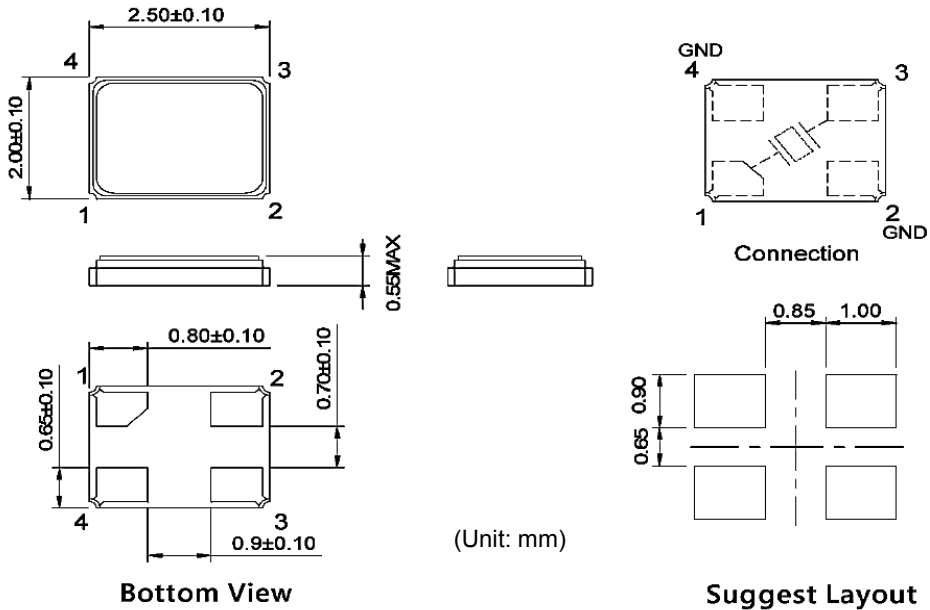
#### Notes:

[1] Please contact us for low aging +/-1ppm grade crystals.

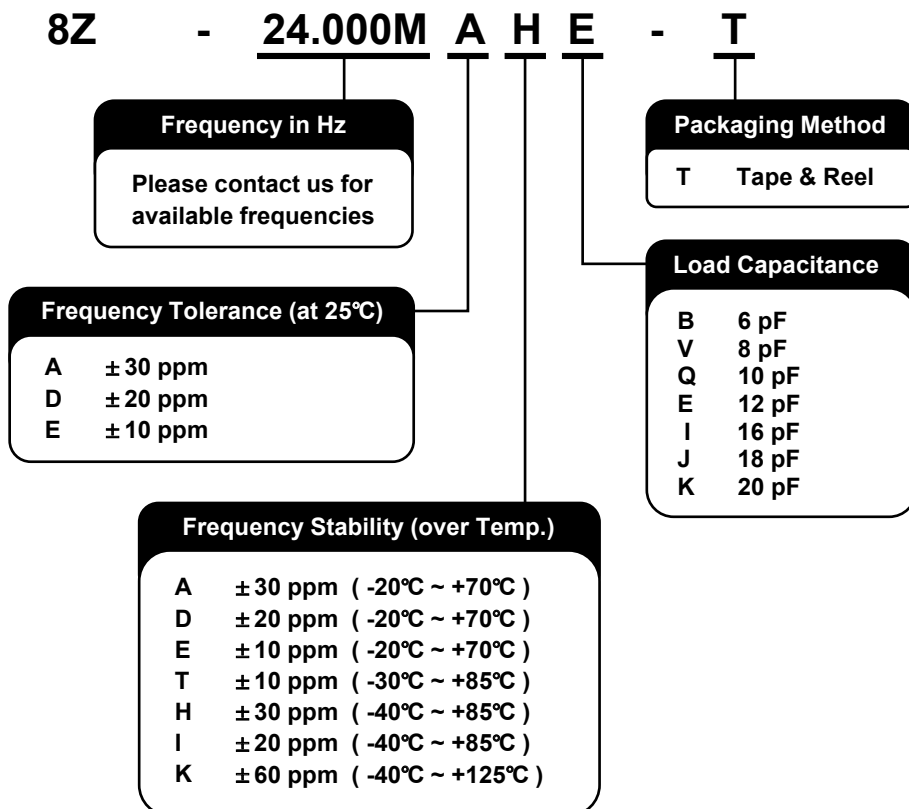
### Motional Resistance (ESR)

| Fundamental |           |
|-------------|-----------|
| 12 ~ 13 MHz | 150Ω Max. |
| 14 ~ 30 MHz | 100Ω Max. |
| 30 ~ 66 MHz | 60Ω Max.  |

### Dimensions



### Ordering Information





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