



**THE DATASHEET OF  
8Z-12.000MAAJ-T**



### 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 ~ 200 $\mu$ W (100 $\mu$ W Typ.)	
Load Capacitance	$C_L$	6pF, 8pF, 10pF 12pF, 16pF, 18pF, 20pF	
Aging (at 25°C $\pm$ 3°C, first year)	$F_{aging}$	$\pm 3\text{ppm}$ Max.	Note [1]
Storage Temperature Range	$T_{STR}$	-55°C ~ +125°C	

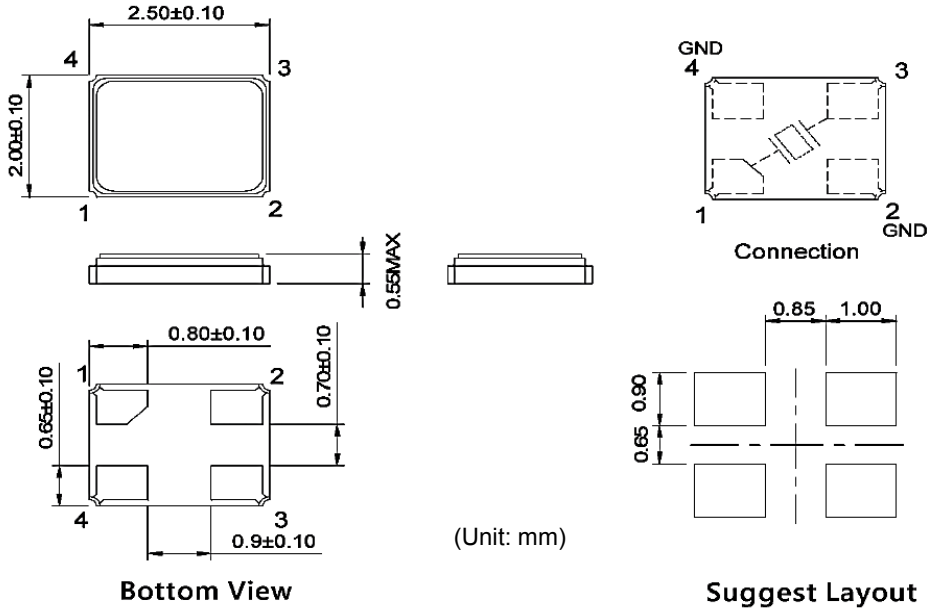
#### Notes:

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

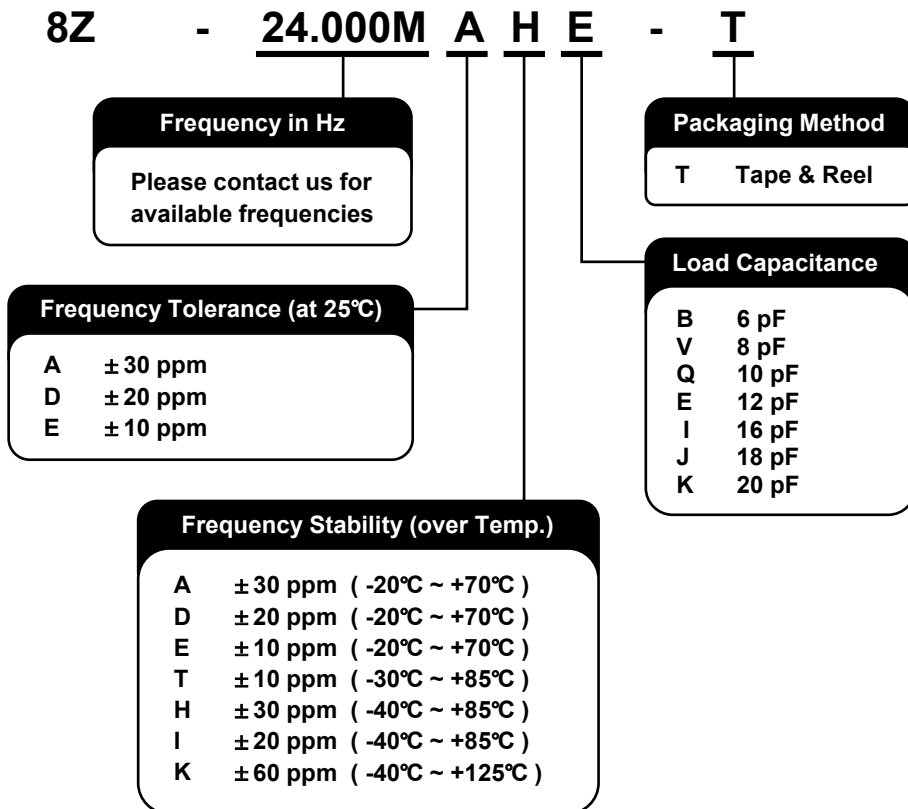
### Motional Resistance (ESR)

Fundamental	
12 ~ 13 MHz	150 $\Omega$ Max.
14 ~ 30 MHz	100 $\Omega$ Max.
30 ~ 66 MHz	60 $\Omega$ Max.

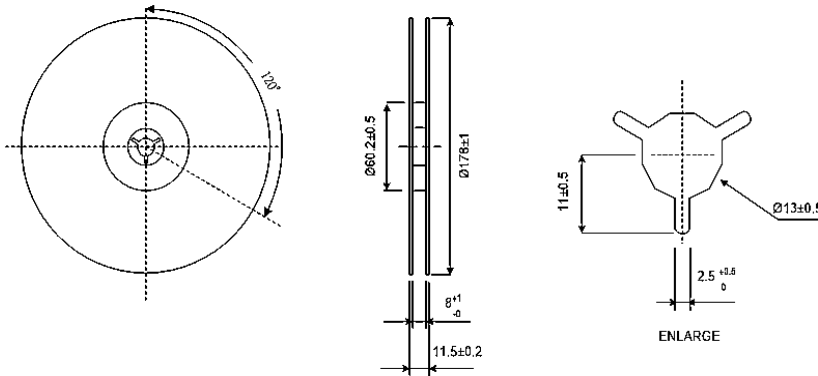
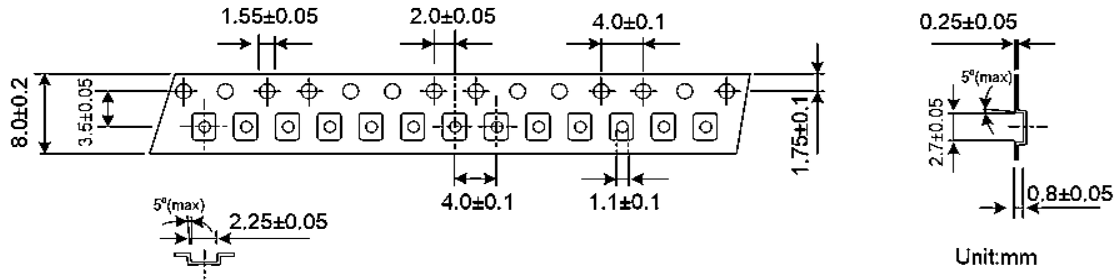
### Dimensions



### Ordering Information



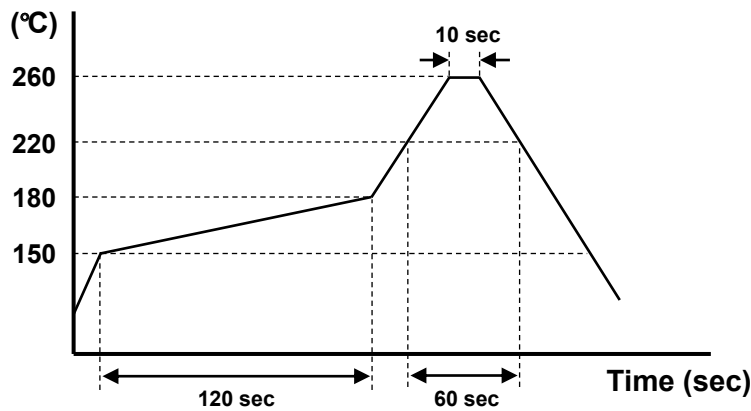
### Packing



### Reflow Profile



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

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



## Looking for pricing, stock, or lifecycle information?

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-  [TXC CORPORATION](#) Information

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-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management