

Features

Frequency range : 16MHz to 66MHz
 Ceramic SMD package
 Seam sealing
 External dimensions (mm)
 L : 2.0 x W : 1.6 x H : 0.5
 RoHS compliant & Pb free

Applications

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

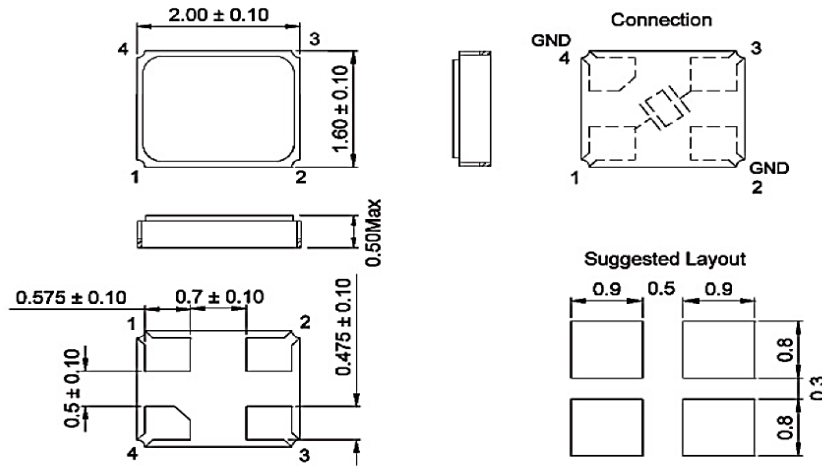
Electrical Characteristics

Item		8Y	Conditions
Frequency Range	F_0	16MHz ~ 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 μ W (50 μ W Typ.)	
Load Capacitance	C_L	6pF, 8pF, 10pF, 12pF	
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	
16 ~ 19.2 MHz	200 Ω Max.
19.2 ~ 30 MHz	100 Ω Max.
30 ~ 66 MHz	80 Ω Max.

Dimensions



Ordering Information

8Y - 24.000M A H E - T

Frequency in Hz

Please contact us for available frequencies

Packaging Method

T Tape & Reel

Frequency Tolerance (at 25°C)

A	± 30 ppm
D	± 20 ppm
E	± 10 ppm

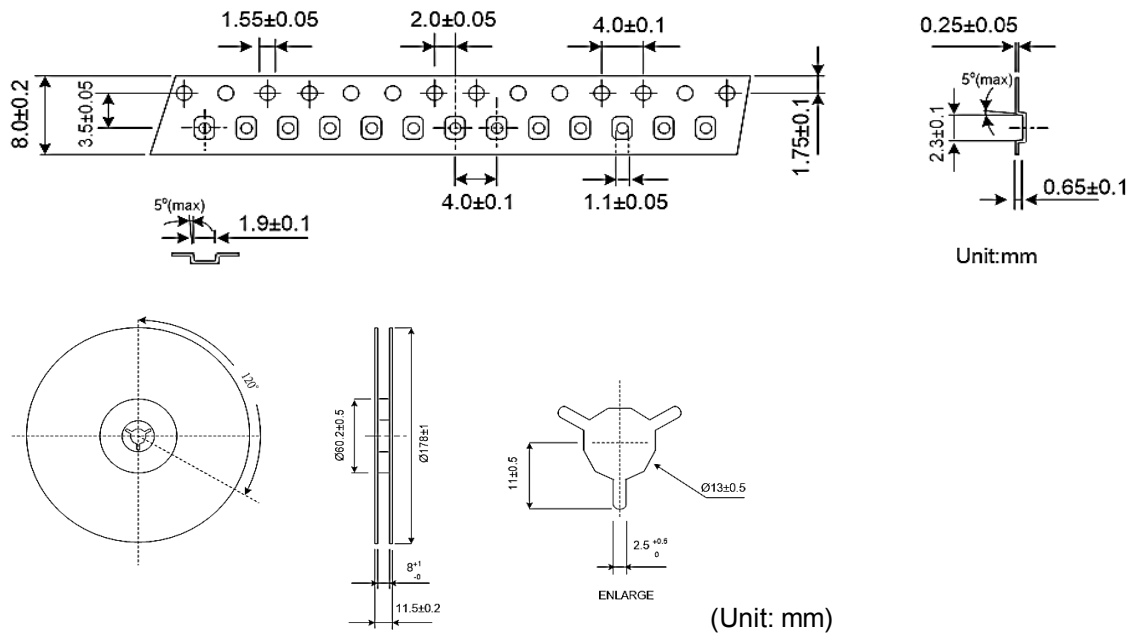
Load Capacitance

B	6 pF
V	8 pF
Q	10 pF
E	12 pF

Frequency Stability (over Temp.)

A	± 30 ppm (-20°C ~ +70°C)
D	± 20 ppm (-20°C ~ +70°C)
E	± 10 ppm (-20°C ~ +70°C)
T	± 10 ppm (-30°C ~ +85°C)
H	± 30 ppm (-40°C ~ +85°C)
I	± 20 ppm (-40°C ~ +85°C)
K	± 60 ppm (-40°C ~ +125°C)

Packing



Reflow Profile

Solder melting point : $220^\circ\text{C} \pm 10^\circ\text{C}$, 60 sec. Min.

Peak temperature : $260^\circ\text{C} \pm 10^\circ\text{C}$, 10 sec. Min.

