

Features

- Frequency range : 20MHz to 66MHz
- Ultra compact and thin
- AuSn sealing, ceramic SMD package
- External dimensions (mm)
L : 1.6 x W : 1.2 x H : 0.35
- RoHS compliant & Pb free

Applications

- BT, BLE, W-LAN, NFC
- SiP modules
- Mobile phone, Wearables
- Internet of Things (IoT)
- Portable consumer products

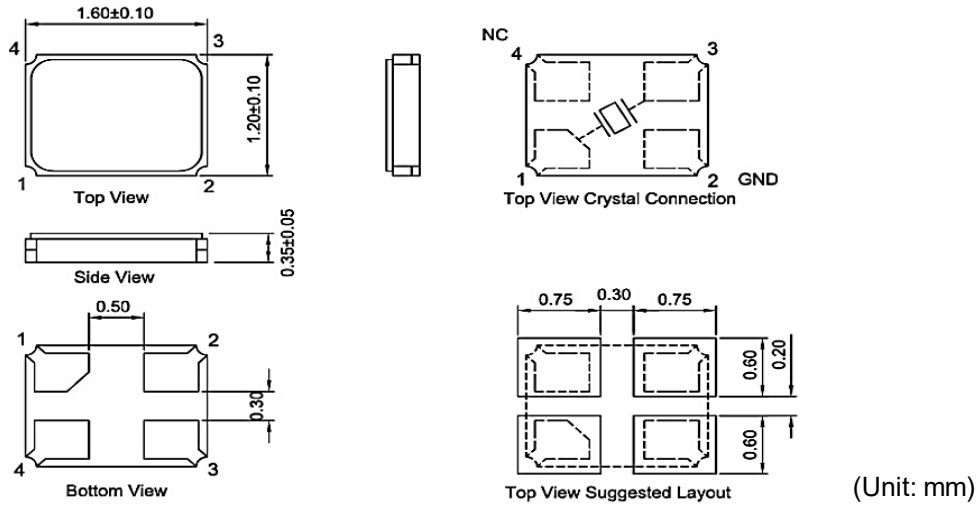
Electrical Characteristics

Item		8Q	Conditions
Frequency Range	F_0	20MHz ~ 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, 7pF, 8pF, 9pF, 10pF, 12pF, 16pF, 18pF	
Aging	F_{aging}	$\pm 3\text{ ppm Max.}$	at 25°C $\pm$ 3°C, first year
Storage Temperature Range	T_{STR}	-55°C ~ +125°C	

Motional Resistance (ESR)

Fundamental	
20 ~ 30 MHz	100 Ω Max.
30 ~ 66 MHz	80 Ω Max.

Dimensions



Ordering Information

8Q

-

27.000M

A

H

E

-

T

Frequency in Hz

Please contact us for available frequencies

Frequency Tolerance (at 25°C)

A ± 30 ppm

D ± 20 ppm

E ± 10 ppm

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)

Packaging Method

T Tape & Reel

Load Capacitance

B 6 pF

Y 7 pF

V 8 pF

C 9 pF

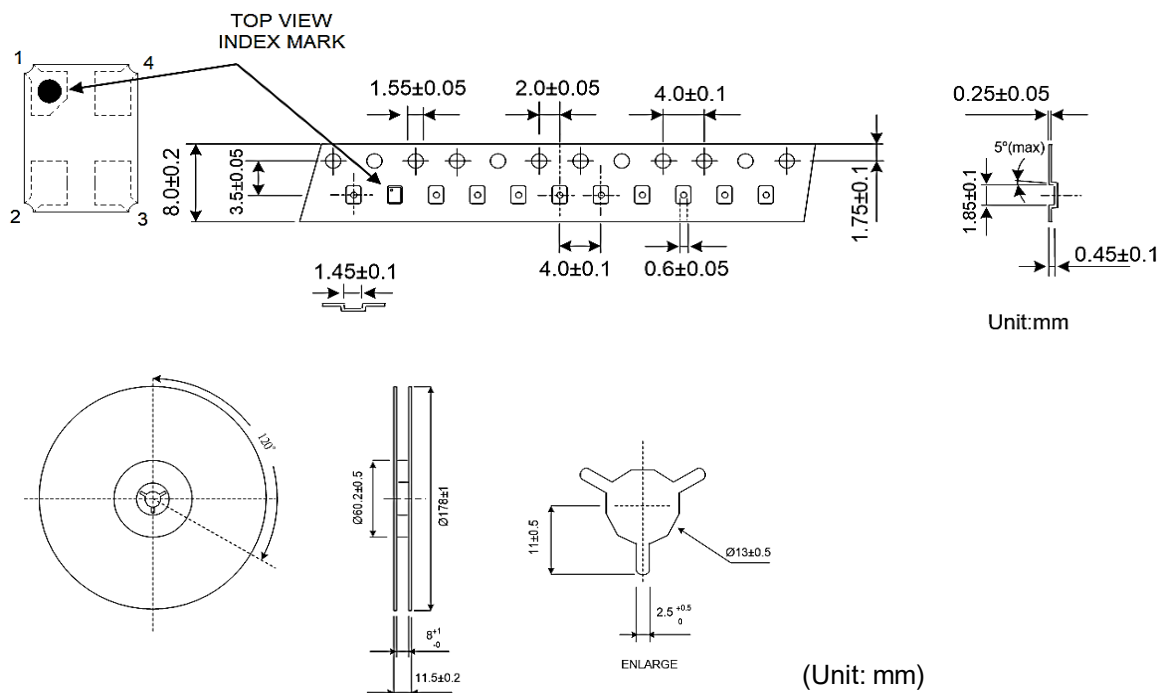
Q 10 pF

E 12 pF

I 16 pF

J 18 pF

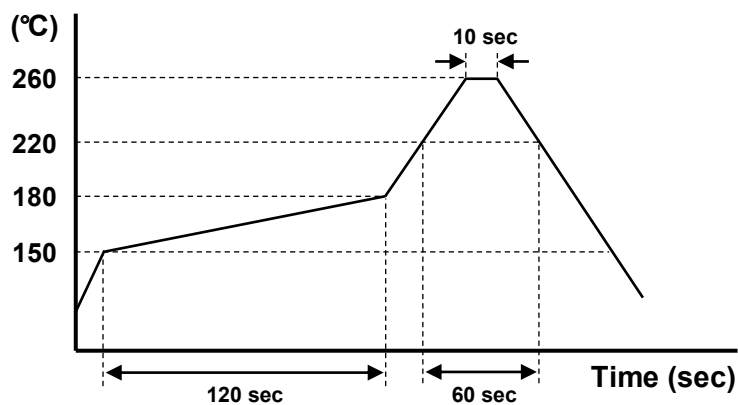
Packing



Reflow Profile

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

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



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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