

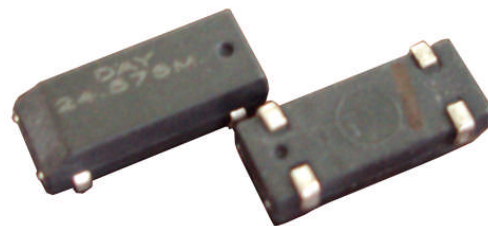
Quartz Crystal Series

8038B(MHz)

Features

◆RoHS
Compliant

◆Ceramic 8.0*3.8*2.5mm



Electrical Specifications

Item	Specifications	Remarks
Series	8038B	
Nominal Frequency Range	6.000MHz to 48.000MHz	Fund.; AT-Cut
Frequency Tolerance	±20ppm(Standard)	Others are offered
Temperature Coefficient	-0.034±0.006ppm/°C ²	
Turn Over Temperature	25°C±5°C	
Operating Temperature Range	-40°C to +85°C	
Storage Temperature Range	-55°C to +125°C	
Shunt Capacitance	5pF	Typical
Load Capacitance	12.5pF(Standard)	10pF to Series
Drive Level	100μW	Maximum
Insulated Resistance	500MΩ	Minimum at 100Vdc
Aging	±2ppm/year	Maximum

ESR(Series Resistance)

Frequency(MHz)	Mode	Ω Max	Frequency(MHz)	Mode	Ω Max
6.000~11.999	Fund.;AT	60	30.000~48.000	3 rd O.T.;AT	60
12.000~29.999	Fund.;AT	40			

Stability vs. Temperature

◆ Standard	1	2	3	5	Remarks
◇ Please specify	±10ppm	±20ppm	±30ppm	±50ppm	
D -40°C to +85°C	◇	◇	◆	◇	Standard

Ordering Information

Q	R	Type	Pin	XX.XXXX	M	Mode	CL pF	Freq.Tolerance at 25°C	Operating Temp.	Stability Vs.Temp.	Option
---	---	------	-----	---------	---	------	----------	---------------------------	--------------------	-----------------------	--------

Q:Quartz 83: 8.0*3.8mm B: 4Pins Center frequency 6 to 48MHz M: MHz F:Fund.;AT O:3rd O.T. See Table ±10ppm to ±50ppm See Table See Table F:Lead Free T:T&R Blank:Bulk

Example:QR83B25.000MFR2D3FT

(Crystal,SMD8038B,25.000MHz,4pins,10pF,±20ppm,-40 to +85deg,±30ppm.,Lead free, T&R)

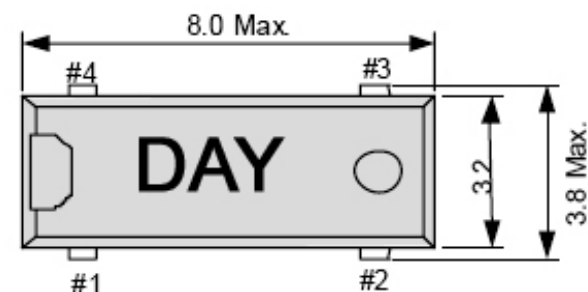
Load Capacitance Codes

10pF:	R	12pF:	T	15pF:	H	16pF:	I
18pF:	J	20pF:	K	22pF:	L	Series:	S

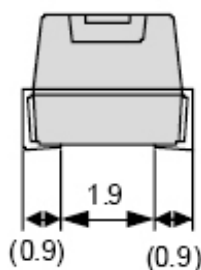
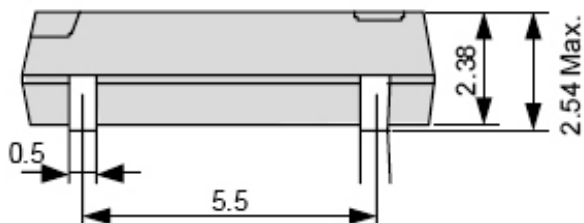
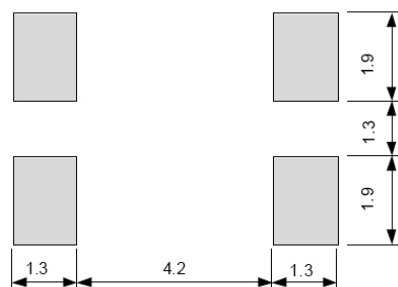
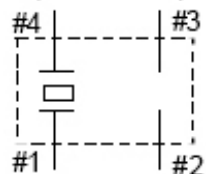
Quartz Crystal Series

8038B(MHz)

Dimensions



Internal connection
(TOP VIEW)

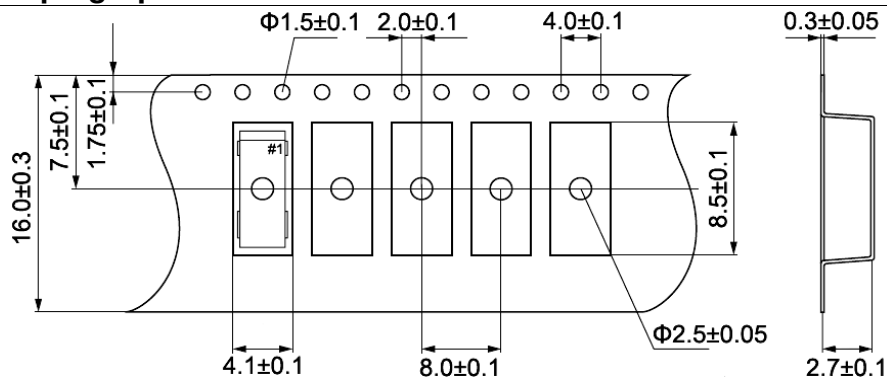


Do not connect #2 and #3 to external device.

Metal may be exposed on the top or bottom of this product.
This will not affect any quality, reliability or electrical spec.

UNIT:mm

Taping Specification



1000pcs/Reel

Reflow Soldering Profile

