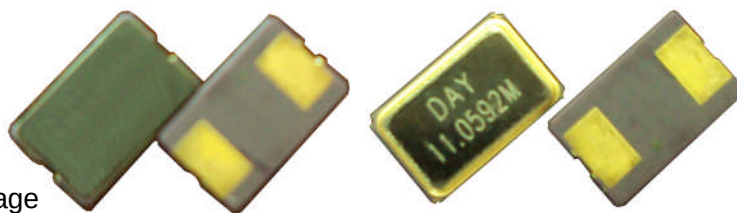


Quartz Crystal Series

5032A

Features

- ◆RoHS Compliant
- ◆Ceramic /metal package



Electrical Specifications

Item	Specifications	Remarks
Nominal Frequency Range	8.000MHz to 52.000MHz	Fund.; AT-Cut
	40.000MHz to 150.000MHz	Fund.; BT-Cut
Frequency Tolerance	±20ppm(Standard) at 25℃±3℃	Others are offered
Load Capacitance	Fund.:12pF to ∞	Please specify
Series Resistance	As ESR table	
Shunt Capacitance	7pF Max	
Drive Level	100μW Max	
Operating Temperature	-20℃ to +70℃(Standard)	Others are offered
Storage Temperature	-55℃ to +125℃ / -65℃ to +185℃	
Stability vs. Temperature	±20ppm(Standard)	Others are offered
Insulated Resistance	500MΩ	Minimum
Aging	±2ppm/year	Maximum

ESR(Series Resistance)

Frequency(MHz)	Mode	Ohm Max	Frequency(MHz)	Mode	Ohm Max
8~16	Fund.;AT	100	40~80	3 rd O.T.;AT	100
16~52	Fund.;AT	40	80~150	3 rd O.T.;AT	80

Stability vs. Temperature

◆ Standard		1	2	3	5	6	7	Remarks
◇ Please specify		±10ppm	±20ppm	±30ppm	±50ppm	±100ppm	±150ppm	
B	-10℃ to +60℃	◇				◇		
C	-20℃ to +70℃	◇	◆	◇	◇	◇	◇	Standard
D	-40℃ to +85℃		◇	◇	◆	◇	◇	
E	-45℃ to +150℃				◇	◆	◇	

Ordering Information

Q	R	Type	Pin	XX.XXXX	M	Mode	CL pF	Freq.Tolerance at 25℃	Operating Temp.	Stability Vs. Temp.	Option
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Q:Quartz 53: 5.0*3.2mm A:2 Center frequency 8.0 to 150.0MHz M: MHz F:Fund.;AT See Table ±10ppm to ±150ppm See Table See Table F:Lead Free
R:Resonator Blank:T&R

Example:QR53A12.0000MFI2C2F

(Crystal,SMD5.0*3.2mm,12.0000MHz,2pins,16pF,+/-20ppm,-20 to +70deg,+/-20ppm.T&R,Lead free)

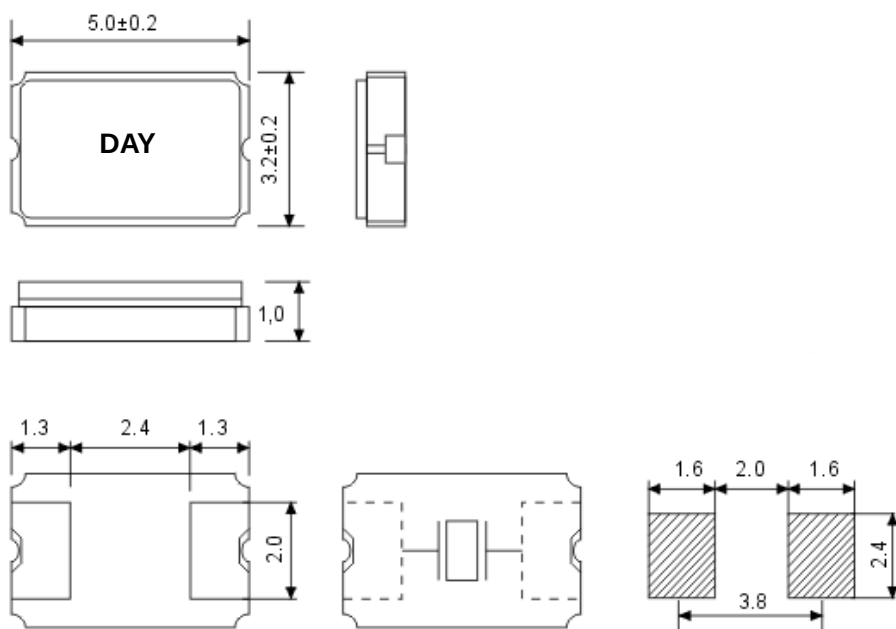
Quartz Crystal Series

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Load Capacitance Codes

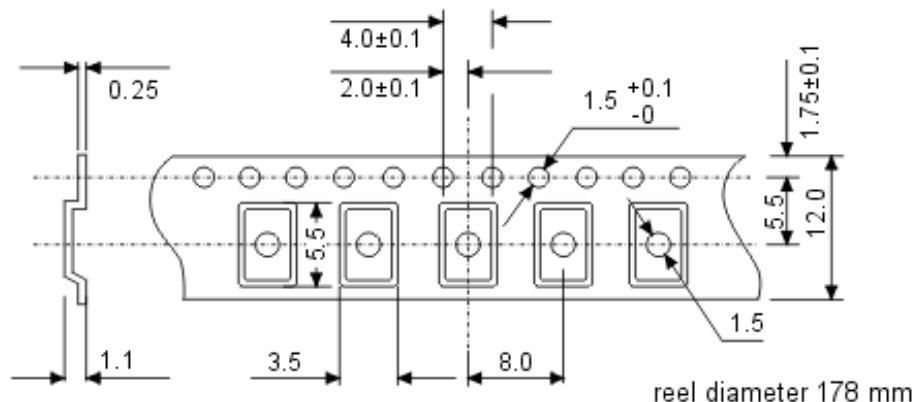
7pF: E	8pF: F	9pF: B	10pF: R
12pF: T	15pF: H	16pF: I	18pF: J
20pF: K	22pF: L	25pF: G	27pF: M
30pF: N	32pF: P	33pF: W	Series: S

Dimensions



Unit:mm

Taping Specification



1000pcs/Reel

Quartz Crystal Series

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Reflow Soldering Profile

