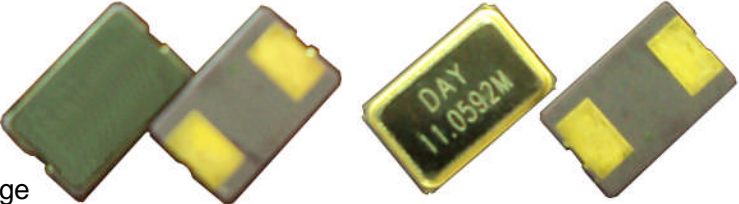


Quartz Crystal Series	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="font-size: 2em; font-weight: bold; margin-right: 20px;">5032A</div> <div style="text-align: center;"> <p>Features</p> <p>◆RoHS Compliant ◆Ceramic /metal package</p> </div> <div style="text-align: right;">  </div> </div>
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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°C±3°C	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°C to +70°C(Standard)	Others are offered
Storage Temperature	-55°C to +125°C / -65°C to +185°C	
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°C to +60°C	◇				◇		
C -20°C to +70°C	◇	◆	◇	◇	◇	◇	Standard
D -40°C to +85°C		◇	◇	◆	◇	◇	
E -45°C to +150°C				◇	◆	◇	

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	53:	A:2	Center frequency	M:	F:Fund.;AT	See Table	±10ppm to ±150ppm	See Table	See Table	See Table	F:Lead Free Blank:T&R
R:Resonator	5.0*3.2mm		8.0 to 150.0MHz	MHz	B:Fund.;BT						
Example:QR53A12.0000MF12C2F											
(Crystal,SMD5.0*3.2mm,12.0000MHz,2pins,16pF,+/-20ppm,-20 to +70deg,+/-20ppm.T&R,Lead free)											

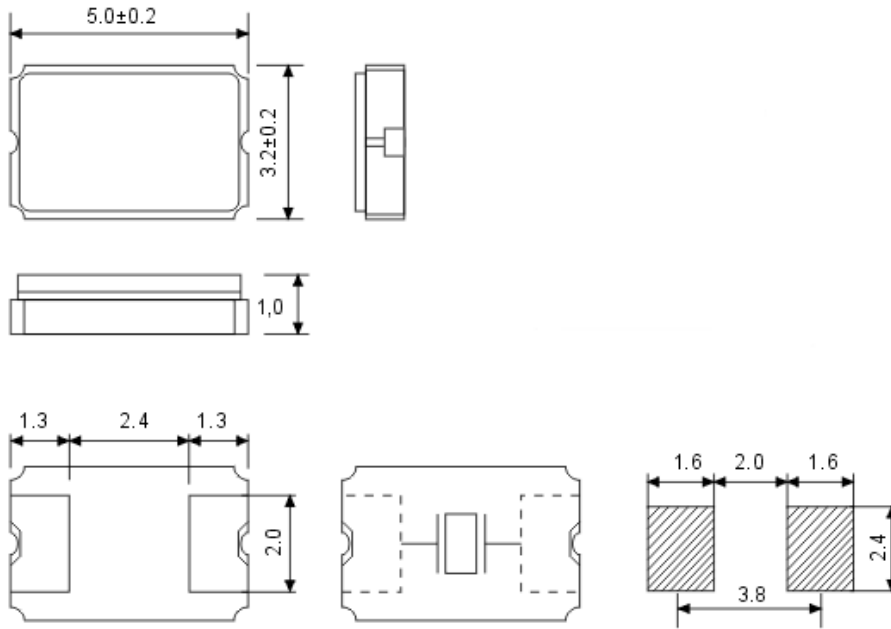
Quartz Crystal Series

5032A

Load Capacitance Codes

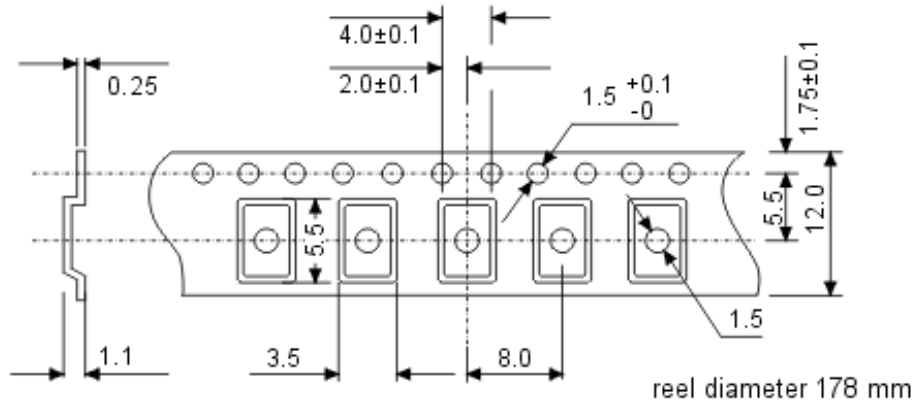
7pF: E	8pF: F	9pF: B	10pF: R
12pF: T	15pF: H	16pF: I	18pF: J
20pF: K	22pF: L	25pF: G	27pF: M
30pF: N	32pF: P	33pF: W	Series: S

Dimensions



Unit:mm

Taping Specification



1000pcs/Reel

Quartz Crystal Series

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Reflow Soldering Profile

