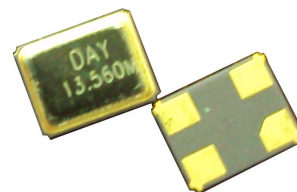


Quartz Crystal Series

1210B

Features

- ◆RoHS Compliant
- ◆Ceramic/metal package



Electrical Specifications

Item	Specifications	Remarks
Nominal Frequency Range	32.000MHz to 100.000MHz	Fund.; AT-Cut
Frequency Tolerance	±10ppm(Standard) at 25°C±3°C	Others are offered
Load Capacitance	Fund.:6pF to 12pF	Please specify
Series Resistance	As ESR table	
Shunt Capacitance	1.0pF Max	
Drive Level	100µW Max	
Operating Temperature	-20°C to +70°C(Standard)	Others are offered
Storage Temperature	-55°C to +125°C	
Stability vs. Temperature	±20ppm(Standard)	Others are offered
Insulated Resistance	500MΩ	Minimum
Aging	±1ppm/year	Maximum

ESR(Series Resistance)

Frequency(MHz)	Mode	Ohm Max	Frequency(MHz)	Mode	Ohm Max
32.000	Fund.;AT	100	40.001~60.000	Fund.;AT	40
32.001~40.000	Fund.;AT	60	60.001~100.000	AT	30

Stability vs. Temperature

◆ Standard		1	2	3	5	6	7	Remarks
◇ Please specify		±10ppm	±20ppm	±30ppm	±50ppm	±15ppm	±25ppm	
B	-10°C to +60°C	◇				◇		
C	-20°C to +70°C	◇	◆	◇	◇	◇	◇	Standard
D	-40°C to +85°C		◇	◇	◆	◇	◇	

Ordering Information

Q	R	Type	Pin	XX.XXXX	M	Mode	CL pF	Freq.Tolerance at 25°C	Operating Temp.	Stability Vs.Temp.	Option
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Q:Quartz 10: 1.2*1.0mm B:4 Center frequency 32.0 to 100.0MHz M: MHz F:Fund.;AT See Table ±10ppm to ±50ppm See Table See Table F:Lead Free Blank:T&R

Example:QR10B32.0000MFF1C2F (Crystal,SMD1.2*1.0mm,32.0000MHz,4pins,8pF,+/-10ppm,-20 to +70deg,+/-20ppm.T&R,Lead free)

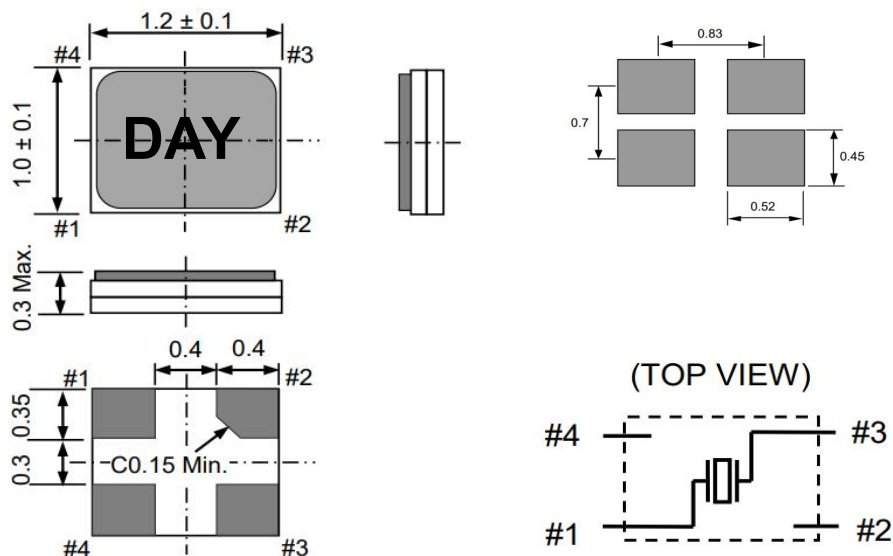
Load Capacitance Codes

6pF:	D	7pF:	E	8pF:	F	9pF:	B
10pF:	R	12pF:	T				

Quartz Crystal Series

1210B

Dimensions



Unit:mm

Reflow Soldering Profile

