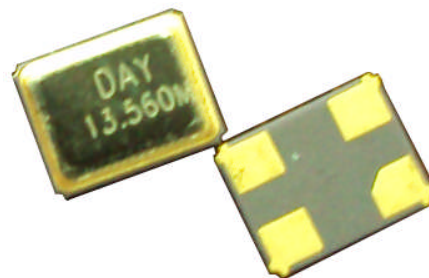


Quartz Crystal Series

2520B

Features

- ◆RoHS Compliant
- ◆Ceramic/metal package



Electrical Specifications

Item	Specifications	Remarks
Nominal Frequency Range	16.000MHz to 80.000MHz	Fund.; AT-Cut
Frequency Tolerance	±20ppm(Standard) at 25℃±3℃	Others are offered
Load Capacitance	Fund.:8pF to 12pF	Please specify
Series Resistance	As ESR table	
Shunt Capacitance	3pF Max	
Drive Level	200W Max	
Operating Temperature	-20℃ to +70℃(Standard)	Others are offered
Storage Temperature	-55℃ to +125℃	
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
16.000~19.999	Fund.;AT	120	30.000~66.000	Fund.;AT	50
20.000~29.999	Fund.;AT	80	66.001~80.000	Fund.;AT	40

Stability vs. Temperature

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

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 22: 2.5*2.0mm B:4 Center frequency 16.0 to 80.0MHz M: MHz F:Fund.;AT See Table ±10ppm to ±50ppm See Table See Table F:Lead Free Blank:T&R
Example:QR22B16.0000MFT2C2F (Crystal,SMD2.5*2.0mm,16.0000MHz,4pins,12pF,+/-20ppm,-20 to +70deg,+/-20ppm.T&R,Lead free)

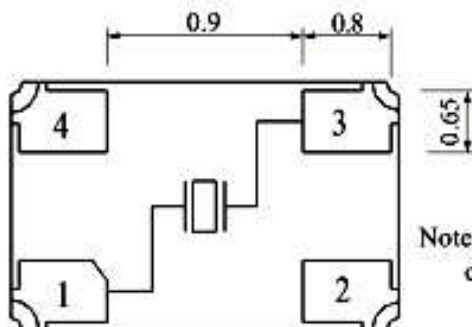
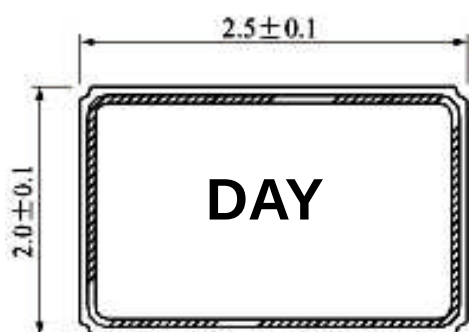
Load Capacitance Codes

8pF:	F	9pF:	B	10pF:	R	12pF:	T
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Quartz Crystal Series

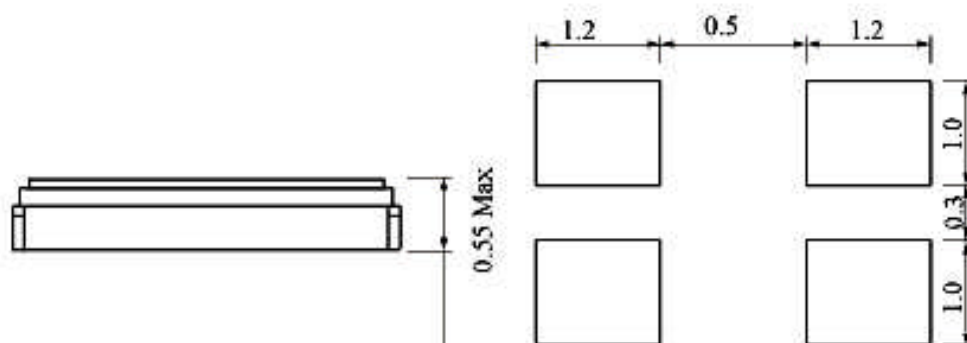
2520B

Dimensions



Note) Pin#2 and #4 are connected through cover, in case connected to GND.
frequency might be drifted.

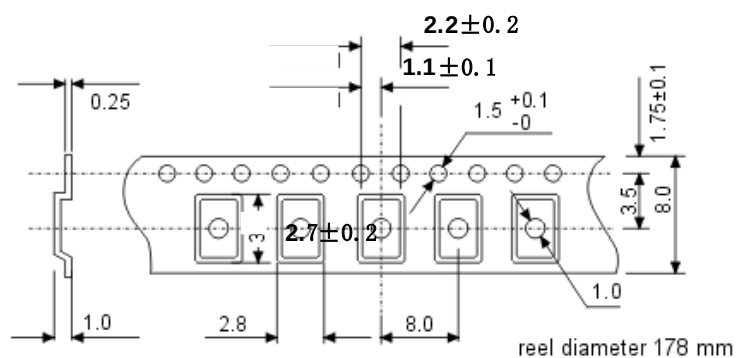
Recommended Solder Pattern



Unit:mm



Taping Specification



3000pcs/Reel

Reflow Soldering Profile

