

Quartz Crystal Series	<b>Features</b>  ◆RoHS Compliant	
<b>AT-3*8(A38B)</b> <b>AT-2*6(A26B)</b>		

Electrical Specifications			
Item	Specifications		Remarks
Series	AT-3*8	AT-2*6	
Nominal Frequency Range	3.57MHz to 29.99MHz	6.0MHz to 29.99M	Fund.;AT Cut
	30.0MHz to 65.0M		3 <sup>rd</sup> Overtone;AT Cut
Frequency Tolerance	±20ppm(Standard)		Others are offered
Operating Temperature Range	-20°C to +70°C	-40°C to +85°C	
Storage Temperature Range	-40°C to +85°C		
Series Resistance	As ESR table		
Shunt Capacitance	5.0pF Max.		
Load Capacitance	20pF(Standard)		7pF to ∞
Drive Level	100μW		300μW Max.
Insulated Resistance	500MΩ		Minimum at 100Vdc
Aging	±3ppm/year		Maximum

ESR(Series Resistance)					
Frequency(KHz)	Mode	Ω Max	Frequency(KHz)	Mode	Ω Max
3.579545~5.999	Fund.;AT	150	12.000~29.999	Fund.;AT	40
6.000~11.999	Fund.;AT	80	30.000~65.000	3 <sup>rd</sup> O.T.;AT	80

Stability vs. Temperature								
◆ Standard		1	2	3	5	6	7	Remarks
◇ Please specify		±10ppm	±20ppm	±30ppm	±50ppm	±15ppm	±25ppm	
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

Q:Quartz A38:3\*8mm B: Center frequency M: F:Fund.;AT See ±10ppm to T:T&R  
 R:Resonator A26:2\*6mm 2Pins 3.57 to 65.0MHz MHz O:3<sup>rd</sup> O.T. Table ±50ppm See Table See Table Blank:Bulk

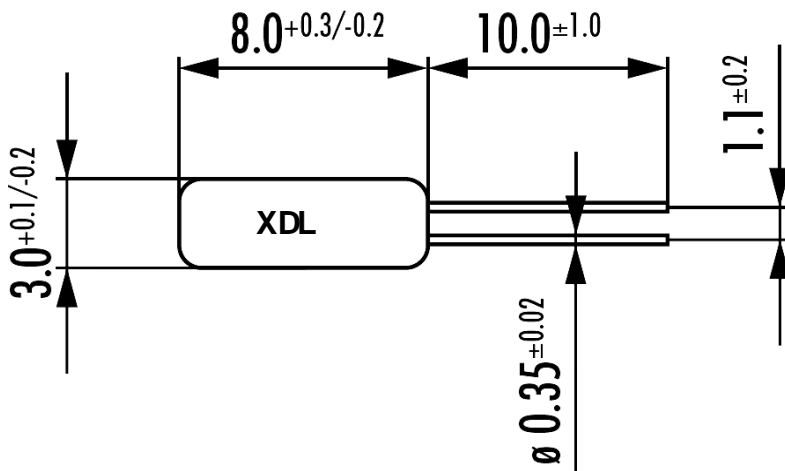
**Example:QRA38B04.0000MFK2C2F** (Crystal,AT-3\*8,4.000MHz,2pins,20pF, ±20ppm,-20 to +70deg, ±20ppm,Lead free,Bulk)

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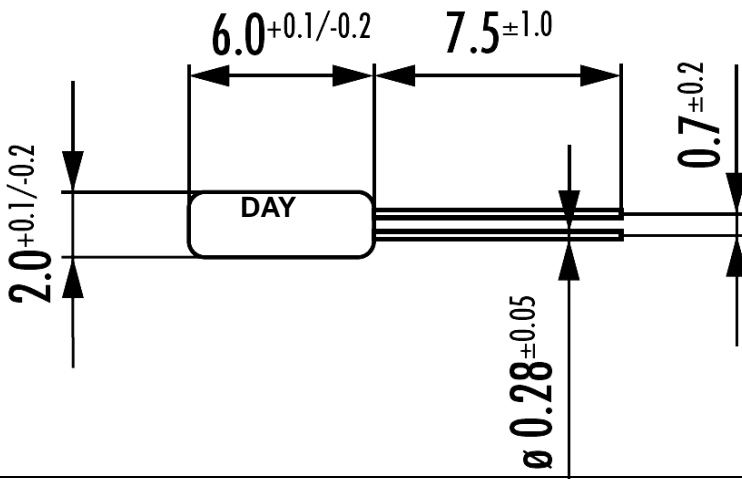
### Load Capacitance Codes

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



**AT-3\*8  
(A38B)**



**AT-2\*6  
(A26B)**

### Reflow Soldering Profile

