

ECEC P/N:

EF3276E013

ECAB2303055 2023/3/10

Date:

SPECIFICATION OF QUARTZ CRYSTAL UNITS

MF3215 3.2*1.5 1.HOLDER TYPE:

32.768 KHz

2. ELECTRICAL SPECIFICATIONS

Standard atmospheric conditions

Unless otherwise speified, the standard range of atmospheric conditions for making measurement

: 25±3°C Ambient temperature : 40% ~ 70% Relative humidity

If there is any doubt about the results ,measurement shall be made within the following limits .

: 25±3°C Ambient temperature Relative humidity : 40% ~ 70%

Electriacal characteristics measured by S&A250B or equivalent.

The crystal is using NT CUT (Surface bending mode).

3.ELECTRICAL CHARACTERISTICS

	E LIVE	SYM	Electrical Spec			с	None
	Parameters		MIN	TYP	MAX	UNITS	Notes
1	Nominal Frequency	FL	32	.76800	0	KHz	4
2	Oscillation mode		Fun	damen	ıtal	-	-3/
3	Load Capacitance	CL		12.5		pF	70.7
4	Frequency Tolerance	-		± 10		ppm	at 25±3℃
5	Operating Temperature	-	-30	~	85	0	2
6	Parabolic Coefficient	-	-0.02		-0.04	ppm/°C2	
7	Equivalent Resistance Rr	Rr	-	-	65	ΚΩ	
8	Drive Level	DL	-	0.1		uW	
9	Shunt Capacitance C0	C0	-	-	1.6	pF	250
10	Insulation Resistance	C.	500	-	-	ΜΩ	at DC 100V
11	Aging			±3		ppm	Year
12	Storage Temperature Range	-	-55	~	125	"C	

Notes:

Ultrasonic cleaning

General cleaning solutions or ultrasonic cleaning method may be used to clean our products. However, under certain circumstances, ultrasonic cleaning machine could generate resonance at the oscillaton frequency of our products and thus deteriorate the electrical characteristics in devices, and even damage the overall structure of devices. Therefore, verification test is recommended before cleaning.

Ultrasonic welding

Avoid mounting and processing by Ultrasonic welding this method has a possibility of an excessive vibration spreading inside the crystal products and becoming the cause of characteristic deterioration and not oscillating.

3.Storage temperature description

Storage Temperature is only for the product itself, the temperature for the packing material is 5 °C~40°C.

4. Recommended conditions for manual welding

Temperature: 350 ± 10 °C, Time: 3 sec max, Re-solder times: twice max.

FACTORY LOCATION

ECEC CORPOTATION

No 555, Sec 2, Binghong Road Jinhua Zhejiang, P.R.C

INSPECTION DESIGN JinHua East Crystal Electronic Co.,Ltd. 郑紫薇 王晓东

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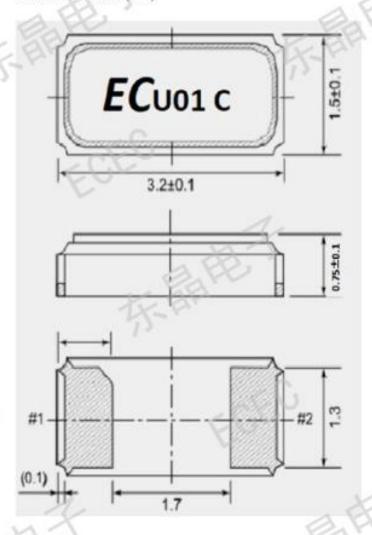
No: ECAB2303055 Date: 2023/3/10

4.DIMENSIONS AND MARKING

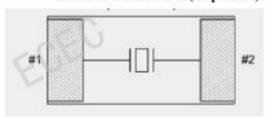
4-1 HOLDER TYPE

MF3215 3.2*1.5 32.768 KHz

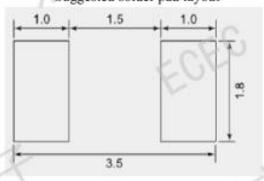
4-2 DIMENSION (mm)



*Internal Connections(Top View)



*Suggested solder pad layout



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JinHua	East	Crystal	Electronic	Co.,Lta.

DESIG	iN	INSPECTION		
郑紫	版	王晓东		