AT-CUT CRYSTAL UNIT (SMD · Ceramic Package)

CITIZEN
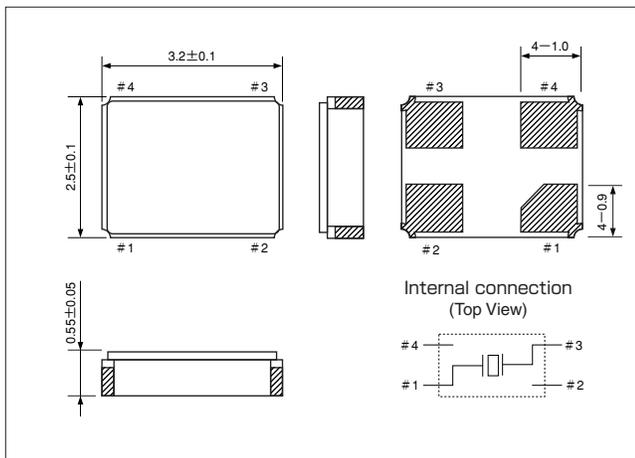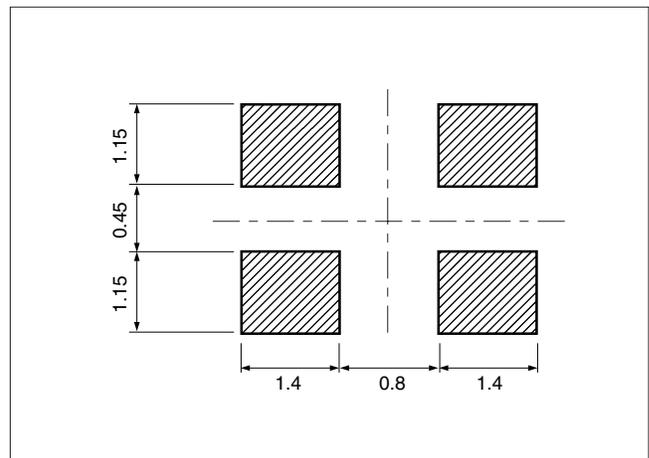Micro HumanTech

CS325

3000pcs/reel

Life-size
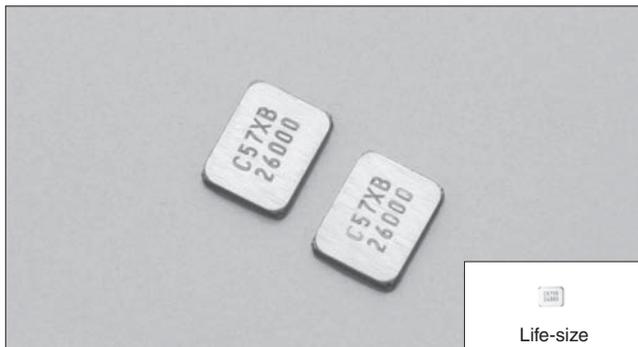
■ FEATURES

● High-density SMD type.

● Reliable ceramic package and excellent environmental characteristics.

● Suitable for various applications such as communication devices, AV devices and other equipment.

● Complete Pb free product.

■ DIMENSION [mm]

3.2±0.1
2.5±0.1
0.55±0.05
4−1.0
4−0.9

#4 #3 #3 #4
#1 #2 #2 #1

Internal connection
(Top View)

#4 — — #3
#1 — — #2

■ SOLDER PAD LAYOUT [mm]

1.15
0.45
1.15
1.4 0.8 1.4

■ STANDARD SPECIFICATIONS

Item	Model	CS325	Conditions
Nominal Frequency	f_0	12.0MHz～54.0MHz（Fundamental）	Need to contact us for the available frequency
Frequency Tolerance	$\triangle f/f_0$	±30ppm	at 25℃
Frequency Tolerance over Operating Temperature Range	$\triangle f/f_0$	±30ppm	−10℃～+60℃
Operating Temperature Range	T_{OPR}	−40℃～+85℃	
Storage Temperature Range	T_{STR}	−55℃～+125℃	
Motional (series) resistance	R_1	Refer to the following table	at 25℃
Load capacitance	C_L	16.0pF, 18.0pF	Need to specify your requirement
Shunt capacitance	C_0	5.0pF Max.	
Level of drive	D_L	10μW（100μW Max.）	
Insulation Resistance	I_R	500MΩ Min.	DC100V±15V
Aging (first year)	$\triangle f/f_0$	±5ppm Max.	25℃±3℃

■ MOTIONAL (SERIES) RESISTANCE (R_1)

Frequency Range	12.0MHz≦f_0<16.0MHz	16.0MHz≦f_0<20.0MHz	20.0MHz≦f_0<30.0MHz	30.0MHz≦f_0<54.0MHz
ESR	150Ω Max.	120Ω Max.	80Ω Max.	50Ω Max.

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Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Citizen](#):
  CS325-40.000MABJ-UT CS325-44.000MABJ-UT CS325-48.000MABJ-UT CS325-53.125MABJ-UT CS325-33.3333MABJ-UT CS325-33.000MABJ-UT CS325-13.560MABJ-UT CS325-16.000MABJ-UT CS325-16.384MABJ-UT CS325-26.000MABJ-UT CS325-30.000MABJ-UT CS325-18.432MABJ-UT CS325-32.000MABJ-UT CS325-27.000MABJ-UT CS325-28.6363MABJ-UT CS325-25.000MABJ-UT CS325-24.576MABJ-UT CS325-24.000MABJ-UT CS325-19.200MABJ-UT CS325-13.000MABJ-UT CS325-14.31818MABJ-UT CS325-12.000MABJ-UT CS325-27.120MABJ-UT