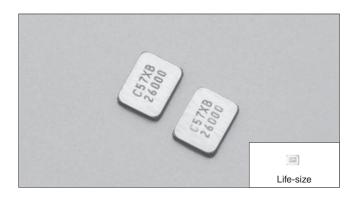


## AT-CUT CRYSTAL UNIT (SMD · Ceramic Package)

# **CS325**

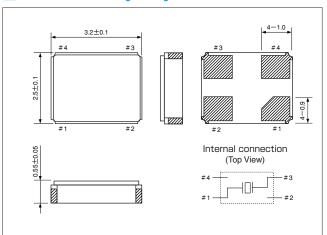
3000pcs/reel



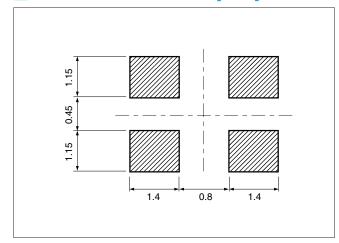
#### **FEATURES**

- 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]**



### **■ SOLDER PAD LAYOUT [mm]**



#### ■ STANDARD SPECIFICATIONS

Item	Model	CS325	Conditions
Nominal Frequency	fo	12.0MHz~54.0MHz (Fundamental)	Need to contact us for the available frequency
Frequency Tolerance	△ f/fo	±30ppm	at 25°C
Frequency Tolerance over Operating Temperature Range	△ f/fo	±30ppm	-10°C∼+60°C
Operating Temperature Range	Topr	-40°C∼+85°C	
Storage Temperature Range	Tstr	−55°C ~+125°C	
Motional (series) resistance	R <sub>1</sub>	Refer to the following table	at 25°C
Load capacitance	CL	16.0pF, 18.0pF	Need to specify your requirement
Shunt capacitance	Co	5.0pF Max.	
Level of drive	DL	10 μ W (100 μ W Max.)	
Insulation Resistance	IR	500M Ω Min.	DC100V±15V
Aging (first year)	△ f/f <sub>0</sub>	±5ppm Max.	25℃±3℃

#### ■ MOTIONAL (SERIES) RESISTANCE (R<sub>1</sub>)

Frequency Range	12.0MHz≦fo<16.0MHz	16.0MHz≦f0<20.0MHz	20.0MHz≦fo<30.0MHz	30.0MHz≦f0<54.0MHz
ESR	150 Ω Max.	120 Ω Max.	80 Ω Max.	50 Ω Max.