Preliminary Specifications

Drawing No.	UKY1C-H1-17472-00[37] 1/6
Issued Date.	May,12,2017

TO: KCST

Note: In case of specification change, KYOCERA Part Number also will be changed.

Product Type	Quartz Crystal
Series	CX2016SA
Frequency	24000kHz
Customer Part Number	-
Customer Specification Number	-
KYOCERA Part Number	CX2016SA24000D0HSSCC
Remarks	Pb-Free、RoHS Compliant、MSL 1 AEC-Q200 Compliant

Customer Approval

Approval Signature	Approved Date	
	Department	
	Person in charge	

Seller
KYOCERA Corporation
Corporate Electronic Components Group
Electronic Components Sales Division
6 Takeda Tobadono-cho, Fushimi-ku, Kyoto
612-8501 Japan
TEL. No. 075-604-3500
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Manufacturer

Corporate Electronic Components Group
Crystal Components Division

DesignDepartment	QualityAssurance	Approved by	Checked by	Issued by
KYOCERACorporation Crystal Units Design Engineering Yamagata Section Crystal Product Division	W. Muraoka	Y. Takahashi	T. Nitoube	Y. Kikuchi

Under Development

Revision History

Rev.No.	Description of revision	Date	Approved by	Checked by	Issued by
1	First Edition	Mar,12,2017	Y. Takahashi	T. Nitoube	Y. Kikuchi

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1. APPLICATION

This specification sheet is applied to quartz crystal "CX2016SA24000D0HSSCC"

2. KYOCERA PART NUMBER

CX2016SA24000D0HSSCC

3. RATINGS

Items	SYMB.	Rating	Unit	Remarks
Operating Temperature Range	Topr	-40 to +125	°C	
Storage Temperature Range	Tstg	-40 to +125	°C	

4. CHARACTERISTICS

ELECTRICAL CHARACTERISTICS

Items	Electrical Specification					Test Condition	Remarks
	SYMB.	Min	Typ.	Max	Unit		
Mode of Vibration		Fundamental					
Nominal Frequency	F0		24		MHz		
Nominal Temperature	T_{NOM}		+25		°C		
Load Capacitance	CL		8.0		pF		
Frequency Tolerance	df/F	-20.0		+20.0	PPM	+25±3°C	
Frequency Temperature Characteristics	df/F	-50.0		+50.0		-40 to +125°C	
FrequencyAging Rate		-2.0		+2.0		1st year	+25±3°C
Equivalent Series Resistance	ESR			150	Ω		
Drive Level	Pd	0.01		200	μW		
Insulation Resistance	IR	500			MΩ	100V(DC)	

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5. Measurement Condition

5.1 Frequency measurement

Measuring instrument	: IEC PI-Network Test Fixture
Load Capacitance	: 8.0pF
Drive Level	: 10μW

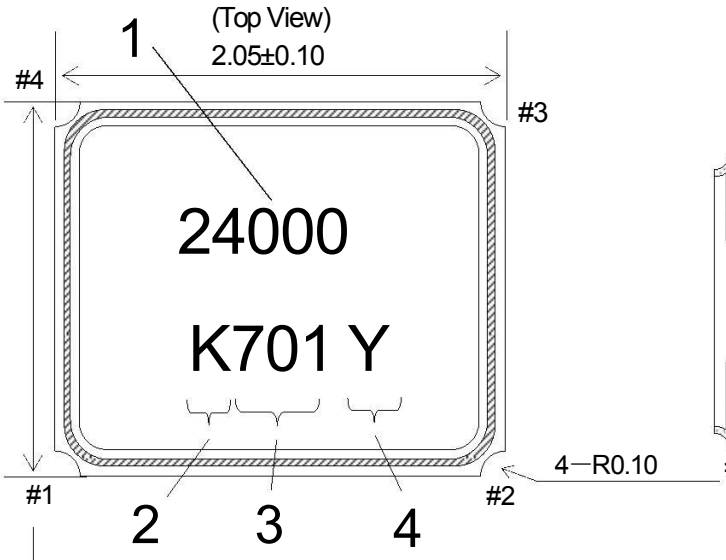
5.2 Equivalent series resistance (ESR) measurement

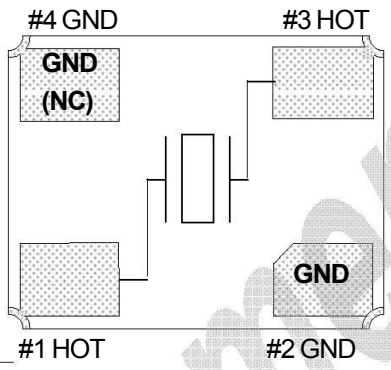
Measuring instrument	: IEC PI-Network Test Fixture
Load Capacitance	: Series
Drive Level	: 10μW

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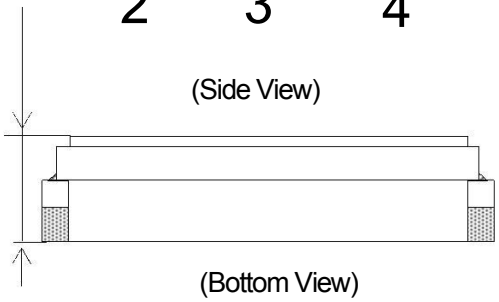
6. APPEARANCES, DIMENSIONS

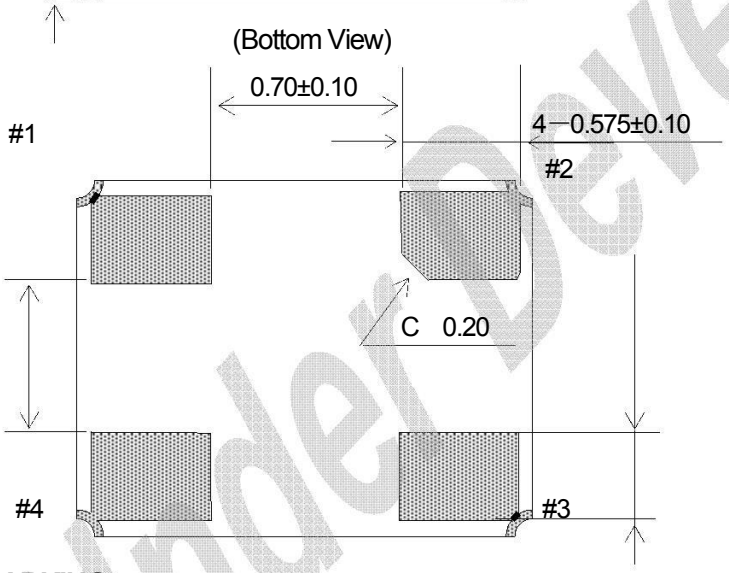
OUTLINE DIMENSION (not to scale)





PIN NO.	PIN Layout
#1	HOT
#2	GND
#3	HOT
#4	GND





UNIT： mm

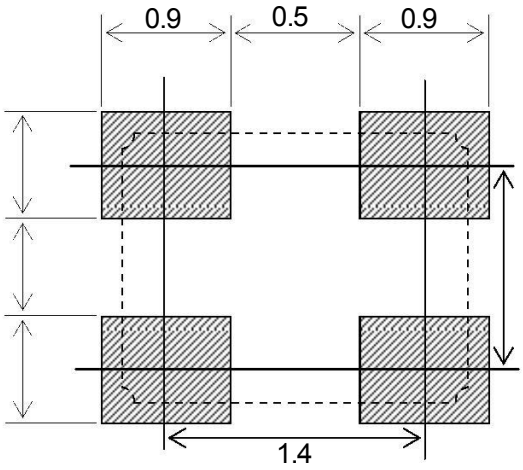
MARKING

1.Nominal Frequency First 5digit of the frequency is indicated.
2.Identification [K] is to indicate 1Pin direction.
3.Date Code Last 1 Digit of YEAR and WEEK
(Ex) 2017,Jan,01 → 701
4. Manufacturing Location
Y…Japan (Yamagata)
Z…Japan (Shiga Yohkaichi)
T…Thailand

※The font of marking is for reference only.

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7. RECOMMENDED LAND PATTERN (not to scale)



UNIT： mm

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