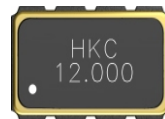


MHZ Crystals Units

Frequency Range: 10.00MHz~55.00MHz

Features:

- High Reliability, Low Cost Crystal
- Tight Stability & Extended Temperature Available
- Lead-free Type
- Automotive Applications, please contact our sales representative



Actual size



ISO/TS 16949:2002
SGS CERT.NO.CN04 / 036212

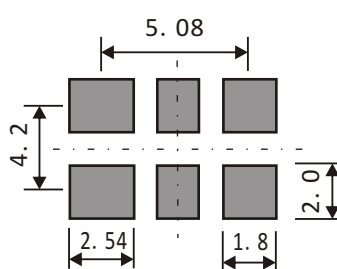
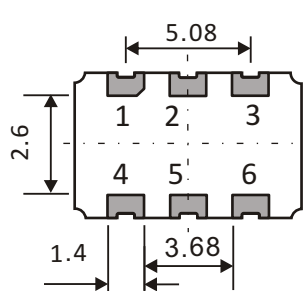
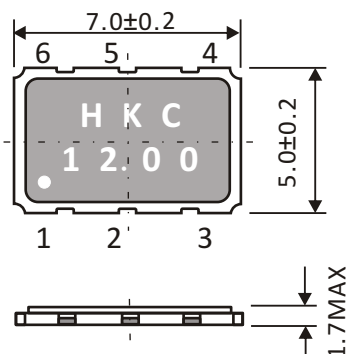
Standard Specification

Output Frequency	10.00~55.00MHz
Frequency Stability	±50PPM at operating temperature More tight tolerance can be available upon request
Storage temperature range	-40 to +85°C
Operating temperature range	-40 to +85°C
Output type	CMOS Output
Operating Voltage	3.3V±10%, 5V±10%
Frequency Adjustment	±80 ppm, ±100ppm, ±120ppm, ±150ppm positive slope
Frequency control voltage	For 3.3V type +1.65+/-1.65V For 5V type +2.5+/-2.5V
Current Consumption	15 mA at 15pF
Duty Cycle	40/60 at 50% V _{DD}
"High" Output Voltage	90% V _{DD} min
"Low" Output Voltage	10% V _{DD} max
Output Rise Time	2.5max10% → 90%V _{DD}
Output Fall Time	2.5max90% → 10%V _{DD}
Output Load	10TTL+15pF max
"High" Input Voltage	90% V _{DD} min
"Low" Input Voltage	10% V _{DD} max

Note:

1. Manufacturer reserves the right to change the specification and content of this product for improvement without notification.
2. Custom specification is welcome. Please contact our sales representative for further details.
3. If the crystal is intended for applications which have direct impact on human life and properties, and require a high degree of reliability and safety concerns, customers must provide full information such as but not limit to the application, electrical and reliability specification at the inquiry beginning stage.

Dimensions (mm) and Solder Pad Layout (mm)



RECOMMENDED LAND PATTERN

Pin	Connection
1	V _C
2	Enable/Disable
3	GND
4	OUTPUT
5	N. C
6	V _{DD}

Please build and send to us your Inquiry Spec Code. You are welcome to add other custom requirement in written and send to us along with the Inquiry Spec. Code. We will reply with a preliminary Product Code.

Clock Oscillator Inquiry Spec Code Builder

Type	Frequency (M)	Freq. Stability	TC Range	Output Type	Operating Voltage	Application
V 5	12M	50	-40+85	COMS	3.3	DAS
eg	eg	eg	eg	eg	eg	eg
4M=4.000000MHz	50=+/-50ppm	-10+60	COMS	2.5V	DAS=Dash Board	
20M=20.000000MHz	30=+/-30ppm	-20+70	TTL	3.3V		
		-40+85				