Hong Kong Automotive X'tals Limited

HC49US SMD-2 Crystals

Frequency Range:

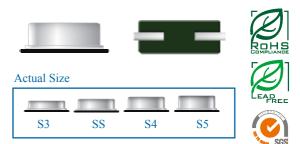
3.01MHz to 100.00MHz

Features:

- High Reliability & Low Cost Unit
- Tight Stability & Extended Temperature Available
- Lead-free Type
- AEC-Q200 Stress Test Qualified Component
- Please contact our sales representative for special applications

Standard Specifications

■ Holder Type: S3/SS/S4/S5



Item	Value	
Frequency Range ^[*]	3.01 to 100.00 MHz	
Frequency Tolerance	±50ppm	
Frequency Tolerance over Temperature range	±100ppm / ±150ppm	
Operating Temperature Range	-40 °C to +85 °C / -40 °C to +125 °C	
Storage Temperature	-45 °C to +90 °C / -45 °C to +130 °C	
Equivalent Series Resistance (ESR)	Please refer to the ESR Table	
Drive Level	50µW Typ. (300µW Max.)	
Load Capacitance	12pF (3pF, 4.5pF, 6pF and series also available)	
Ageing	±5ppm/year	

Remark [*]: S2 package starts from 6.0MHz

ESR Table

Frequency Range (MHz)	Mode	Standard ESR (Ohm)
3.01 to 3.5	AT Cut Fund.	300
3.5 to 4.0	AT Cut Fund.	150
4.0 to 4.5	AT Cut Fund.	130
4.5 to 5.0	AT Cut Fund.	110
5.0 to 6.0	AT Cut Fund.	80
6.0 to 7.0	AT Cut Fund.	60
7.0 to 10.0	AT Cut Fund.	50
10.0 to 13.0	AT Cut Fund.	40
13.0 to 50.0	AT Cut Fund.	30
27.0 to 100.0	BT Cut	40
26.0 to 100.0	3rd Overtone	100

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.

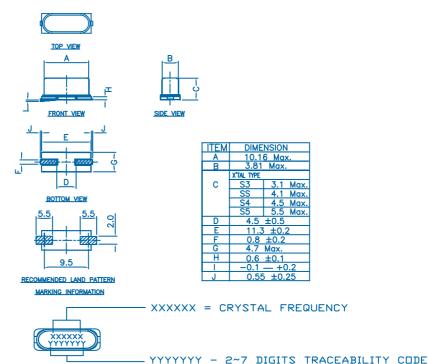
4. Customers have to agree to the "Guideline for handling crystal units" and "Standard Terms and Condition of Sales" which is printed this catalog before placing orders to our company or our distributors. There are also unpredictable factors such as applied condition, oscillation margin and etc and customers must check them beforehand. In case of queries, please do not fail to send inquiry to our company before ordering. Ver. 1.1

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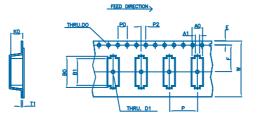
HongKong/Overseas: T:+852-35112388 F:+852-35112420 Shenzhen: T:+86-755-82540080 F:+86-755-82540036

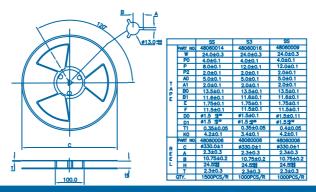
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Dimensions (mm) and Solder Pad Layout (mm)



■ Tape & Reel (mm)





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HongKong/Overseas: T:+852-35112388 F:+852-35112420 Shenzhen: T:+86-755-82540080 F:+86-755-82540036 QUARTZ CRYSTALS

Ver. 1.1