

# HC -49US SMD SURFACE MOUNT

Type: S2, S3, SS, S4



## APPLICATION:

- . Computers, Modems, and Networking
- . Telecommunication
- . Industrial
- . Consumer Electronics

## FEATURES:

- . High Reliability
- . Tight Stability & Extended Temperature Available

## OPTIONS:

- . Height of SMD Type: 2.6, 3.1, 4.1, 4.5, and 5mm MAX
- . Blister Tape & Reel Packing
- . Tailor Made Spec. or Designer Spec Welcome
- . Laser Marking or Ink Marking

## STANDARD SPECIFICATION

Frequency Range	3.01MHz~100.000MHz (Consult Factory For Specific Available Frequencies)		
Oscillation Modes	AT Cut Fundamental 3.01 MHz ~ 40MHz	BT Cut Fundamental 27MHz ~ 50MHz	AT Cut 3 <sup>rd</sup> Overtone 26MHz~100MHz
Equivalent Series Resistance ESR/Rs (Measured at Series Resonance)	3.01 ~ 4.000MHz: 150~300Ohm 4.01~ 5.500 MHz: 80~130Ohm 5.51~8.000 MHz: 50~60Ohm 8.01 ~ 40.000MHz: 30~40 Ohm	40 Ohm	100 Ohm
Frequency Tolerance at 25°C	± 30PPM is standard, but tight tolerances also available for certain frequencies		
Frequency Stability Over Operating Temperature Range	± 50PPM is standard, but tight tolerances also available for certain operating temperature range.		
Operating Temperature Range	-10~+60°C is standard, but can be extended to -55~+125°C		
Load Capacitance	8pF ~ ∞ pF (∞ pF mean series Resonance). To be specified by customer		
Drive Level	50 μW is standard, 0.001 μW to 1000 μW also available		
Ageing	± 5PPM per year is standard, but ± 1 PPM also available		
Shunt Capacitance	7pF Maximum		
Pullability	May be specified by customer in terms of frequency shift required over a certain range of load capacitance, (e.g. +100PPM from CL= 12pF to CL=18pF)		

\* Specification subject to change without prior notice.

\* Packing information refer to page 39  
\* Marking Information refer to page 38

## ORDERING INFORMATION

Type	Frequency	Tolerance at 25°C	Load Capacitance	Mode	T.C. Range	T.C. Tolerance																												
S2 - 2.6mm S3 - 3.1mm SS - 4.1mm S4 - 4.5mm	A=±5 L=±70 B=±10 M=±2.5 C=±15 N=±150 D=±20 P=±35 E=±30 Q=±60 F=±50 R=±80 G=±100 S= see serial H=±25 I=±200 J=±45 K=±40	Load Capacitance 32= 32pF 10=10pF 08=8pF CS=Series	F=Fund B=BT Cut 3=3 <sup>rd</sup> Overtone			Please Refer to tolerance at 25°C table																												
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