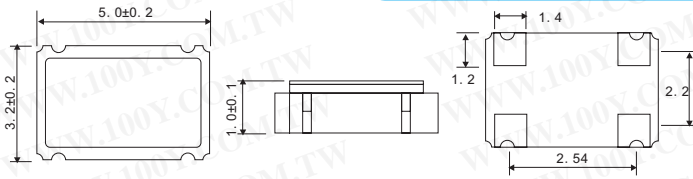


# Timing Function IC

## SMD Type Crystal Oscillators

Detailed product specifications are available on: [us.100y.com.tw](http://us.100y.com.tw)



### TYPICAL APPLICATIONS

Palmtop computer, Portable application, PCMCIA Cards Disc Drives

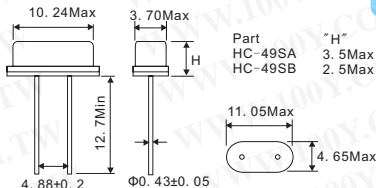
### FEATURES

Ultra-thin, Ceramic SMD package, Seam sealed, Lead-free Design. High performance, CMOS & TTL Compatible, RoHS Compliant Standard

Model	OSC71	
Nominal Frequency Range	0.5~70MHz	0.5~125MHz
Standard Frequency	20, 27, 40, 44, 48, 50, 66, 75 Mhz	
Frequency stability	±25ppm, ±50ppm, ±100ppm	
Aging(+25°C)	±5ppm/year Max.	
Temperature Range	Operating	0°C~+70°C, -40°C~+85°C
	Storage	-55°C~+125°C

Part No.	Product No.	Manufacturer	Description	Frequency(MHz)	Tol. ±ppm	Operating Volt.	Input Current	Package
28675	OSC713250HIS-12MHZ	SIWARD	Clock Oscillator SMD	12.000MHZ-3.3R	+25 ppm	+3.3V(±10%)	10(*10)mA Max.	5*3.2*1.0

## Crystal Crystals



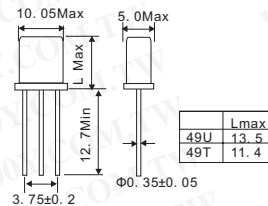
Part "H"  
HC-49SA  
HC-49SB  
3.5Max  
2.5Max

Detailed product specifications are available on: [us.100y.com.tw](http://us.100y.com.tw)

Parameter	Symb	Condition	Min	Typ	Max	Units
Frequency Range	Fo	49SA 49SB	3.200 8.000		66.000 66.000	Mhz
Frequency Tolerance	ΔF/Fo	AT 25°C	±10	±30	±50	Ppm
Temperature Stability	TC	REF TO 25°C	±10	±30	±50	ppm
Operating Temperature Range	T <sub>OPR</sub>		-20*		+70*	°C
Storage Temperature Range	T <sub>STG</sub>		-40		+85	°C
Shunt Capacitance	Co				7	pF
Load Capacitance	CL	Customer specified	10		Series	pF
Insulator Resistance	IR	100VDC	500			MΩ
Drive Level	DL			100	500	μW
Aging	Fa	AT 25°C, per year	-5.0		+5.0	ppm

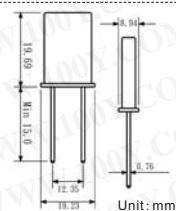
- Low cost
- Wide Frequency Range
- Industry standard
- Excellent aging

Part No.	Product No.	Description	frequency (MHz)	Load capacitance (pF)	Can Style	±ppm
49801	ESA20.000F20D35F	HC-49S Series_Low Profile Holder Type Crystal Units	20.000	±30ppm	20PF	Crystal DIP



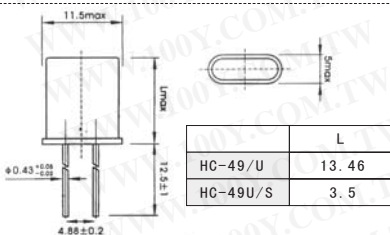
Model	Nominal Frequency Mhz	Pass Band Width KHz/ dB	Stop Band Width KHz/ dB	Ripple dB	Insertion Loss dB	Terminal Impedance Rt/Ct[Ω/pF]	Operating Temp. range °C	Mode of Oscillation	Pole
FT10M07A1	10.7	±3.75/3	±18/20	0.5	2.0	1800//5	-20°C~70°C	Fund	2

Part No.	Product No.	Description	frequency (MHz)	Load capacitance (pF)	Can Style	±ppm
40532	FT10M07A1	Monolithic crystal filter	10.7MHZ	1800/5pF	HC-49T	±20ppm



- Frequency calibration tolerance: ±50ppm @ 25°C
- Operating temperature: -10°C to +60°C
- Drive level: 4.0mW maximum
- Frequency stability tolerance: ±50ppm from -10°C to +60°C
- Shunt capacitance: 7pF maximum
- Impedance (pF) :Series, 16pF, 20pF, 30pF, 32pF, or specity

Part No.	Product No.	Description	frequency (MHz)	Load capacitance (pF)	Can Style	±ppm
11769	XTAL-1.00M-33U	Quartz Crystal Units	1.000	20pF	HC33/U	30ppm



This kind of resonators has the advantage of small calibration tolerance, tight temperature frequency deviation and is widely used in mobile communications, kind of telephones, computers and facsimiles

FREQUENCY RANGE	1.8432~150MHz
HOLDER TYPES	1.8432~150MHz 3.579545~70.000MHz
FREQUENCY TOLERANCE AT 25°C±2°C	±30ppm (Typical) ±50ppm MAXIMUM
FREQUENCY STABILITY OVER TEMPERATURE	±30ppm (Typical) ±100ppm MAXIMUM
OPERATING TEMPERATURE RANGE	-20°C~+70°C
STORAGE TEMPERATURE RANGE	-40°C~+85°C
AGING	5PPM/YEAR
LOAD CAPACITANCE	10PF~∞
SHUNT CAPACITANCE	<7PF
EQUIVALENT SERIES RESISTANCE (ESR)	SEE TAGE 1
DRIVE LEVEL	100 : 200 : 300 : 500μW



T E L : Taiwan: 886-3-5753170  
F A X : Taiwan: 886-3-5753172  
E-mail: Taiwan: [us\\_sale@100y.com.tw](mailto:us_sale@100y.com.tw)

Shenzhen: 86-755-83298787  
Shenzhen: 86-755-83640655  
Shenzhen: [100y@163.com](mailto:100y@163.com)

Shanghai: 86-21-54151736  
Shanghai: 86-21-64605107  
Shanghai: [100y-1@163.com](mailto:100y-1@163.com)