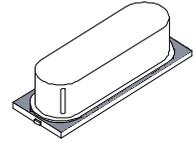




# SM42, SM30 Crystal



- HC-49/US Low Profile Crystal Mounted on Surface Mount Platform (HC-49U/SMD)
- Available in 2 heights, SM42: 4.4mm, SM30: 3.3mm

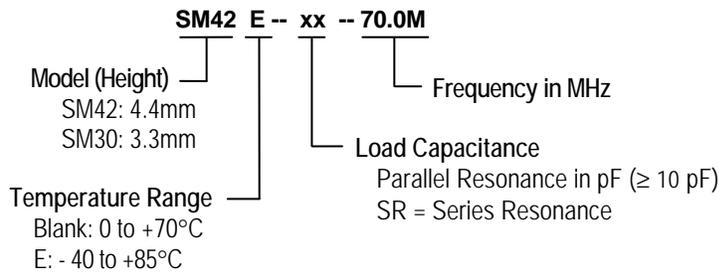
**3.200 MHz – 70.000 MHz**

### Standard Specifications

Calibration Frequency Tolerance at 25°C	± 30 PPM is standard, tighter tolerances available
Operating Temperature Range (OTR)	0 to +70°C is standard, but can be extended to -40 to +85°C
Frequency Stability (FS) over OTR	± 50 PPM is standard, tighter tolerances available
Drive Level	50 mW is standard, customer may specify
Aging at 25°C	± 5 PPM per year is standard, customer may specify ± 1 PPM
Shunt Capacitance	7 pF maximum
Pullability	

May be specified by customer in terms of frequency shift required over a certain range of load capacitance (e.g. +100 PPM from CL=12 to CL=18 pF) or as motional capacitance ( fF )

### Part Numbering Guide



### ESR Values

Oscillation Mode	Frequency Range (MHz)	Maximum ESR (Ohms)
Fundamental AT Cut	3.200 – 4.999	300
	5.000 – 7.999	120
	8.000 – 11.999	70
3rd Overtone AT Cut	12.000 – 30.000	50
	25.000 – 70.000	100

Consult factory for available frequencies and specs.

Not all options available for all frequencies. A special part number may be assigned.

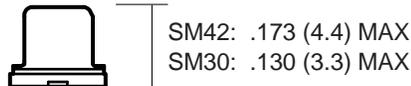
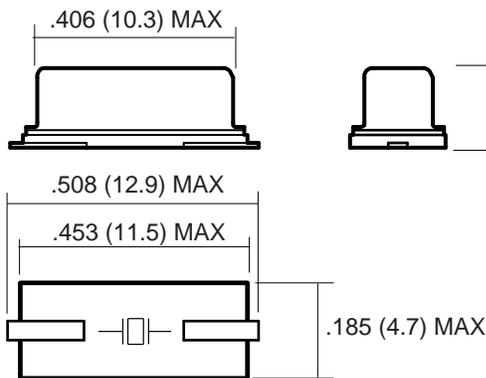
Consult factory for lower ESR

### Mechanical: inches (mm)

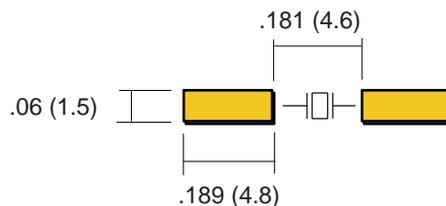
not to scale

### Solder Pads

Due to part size and factory abilities, part marking may vary from lot to lot and may contain our part number or an internal code.



Packaging  
24mm tape  
16mm pitch



May 2002