

actual size

HC-49/USM

HOORAY

surface mount quartz crystal

features

- wide frequency range
- extended temperature range

type	HC-49/USM or (SMU type)		
frequency	3.579545 MHz ~ 25 MHz fundamental AT-cut		
	27.0 MHz ~ 75.0 MHz 3rd overtone AT-cut		
frequency tolerance at 25 °C	± 30 ppm	± 30 ppm	± 30 ppm
frequency temp. characteristic	± 50 ppm (< 8.0 MHz)	± 30 ppm (> 8.0 MHz)	± 100 ppm
operating temperature	-20 °C ~ +70 °C		-40 °C ~ +85 °C
storage temperature	-40 °C ~ +90 °C		-40 °C ~ +90 °C
load capacitance C_L	12 pF ~ 30 pF / series		12 pF ~ 30 pF / series
shunt capacitance C_0	< 7 pF		< 7 pF
drive level	100 μ W		100 μ W
aging	< ± 5 ppm		< ± 5 ppm

option table:

- FUND – fundamental
- AT – AT-cut
- BT – BT-cut
- 3 OT – 3rd overtone
- T1 – -40 °C ~ +85 °C

date code

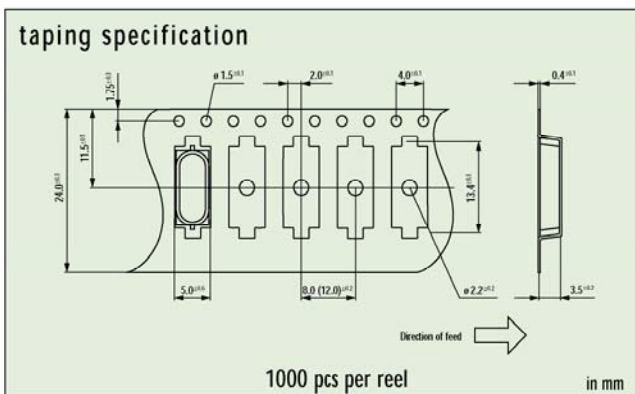
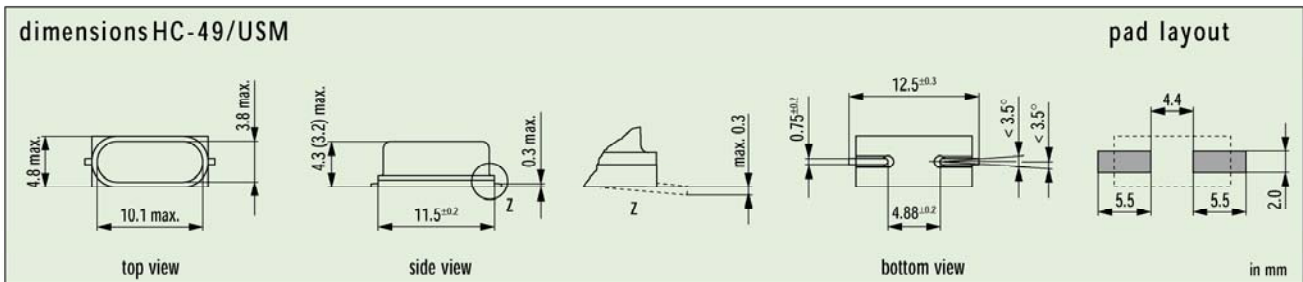
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
2007	a	b	c	d	e	f	g	h	j	k	l	m
2008	n	p	q	r	s	t	u	v	w	x	y	z
2009	A	B	C	D	E	F	G	H	J	K	L	M
2010	N	P	Q	R	S	T	U	V	W	X	Y	Z

marking:

company code / frequency / date code

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standard load capacitance codes

- 12 pF
- 16 pF
- 18 pF
- 20 pF
- 22 pF
- 24 pF
- 30 pF
- 32 pF
- series

reflow soldering profile

