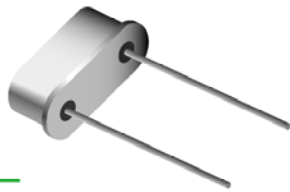




actual size



HC-49/US

HOORAY

low profile quartz crystal

features

- pin layout as HC-49/U
- extended temperature range

type	HC-49/US or (SS type)		
frequency	3.579545 MHz ~ 30.0 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	-20 °C ~ +70 °C	-40 °C ~ +85 °C
storage temperature	-40 °C ~ +90 °C	-40 °C ~ +90 °C	-40 °C ~ +90 °C
load capacitance C_L	12 pF ~ 30 pF / series	12 pF ~ 30 pF / series	12 pF ~ 30 pF / series
shunt capacitance C_0	< 7 pF	< 7 pF	< 7 pF
drive level	100 μ W	100 μ W	100 μ W
aging	< ± 5 ppm	< ± 5 ppm	< ± 5 ppm

option table:

- MP – middle pin
- TR – taped
- IS – insulation spacer
- LL – lead length
- FUND – fundamental
- BT – BT-cut
- 3 OT – 3rd overtone
- T1 – -40 °C ~ +85 °C

date code

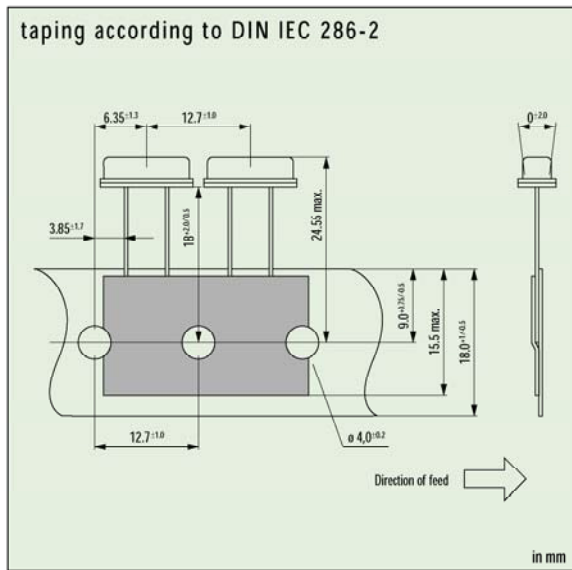
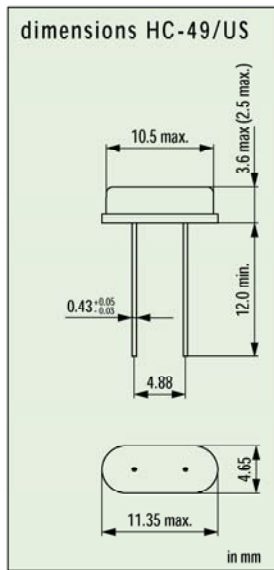
	Jan.	Febr.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
2007	a	b	c	d	e	f	g	h	j	k	l	m
2008	n	p	q	r	s	t	u	v	w	x	y	z
2009	A	B	C	D	E	F	G	H	I	K	L	M
2010	N	P	Q	R	S	T	U	V	W	X	Y	Z

marking:

company code / frequency / date code

HC-49/US

HOORAY



standard load capacitance

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