

actual size

Quartz Crystal • SS2

Through Hole Quartz Crystal

Features

- package height 2.5 mm
- consumer and automotive specifications

General Data

type	SS2	
frequency range	4.1943 ~ 35.0 MHz	(fund. AT-cut)
	27.0 ~ 75.0 MHz	(3rd OT AT-cut)
	30.0 ~ 50.0 MHz	(fund. BT-cut)
frequency tolerance at 25 °C	± 30 ppm	
load capacitance C_L	12 pF ~ 32 pF or series (30 pF standard)	
shunt capacitance C_0	< 5 pF	
storage temperature	-40 °C ~ +90 °C	
drive level max.	100 µW	
aging	< ±5 ppm first year	

ESR (series resistance Rs)

frequency in MHz	vibration mode	ESR max. in Ω	ESR typ. in Ω
4.19 ~ 9.9999	fund.- AT	50	25
10.0 ~ 13.999	fund.- AT	35	15
14.0 ~ 35.000	fund.- AT	30	10
27.0 ~ 75.000	3rd OT - AT	100	60
30.0 ~ 50.000	fund.- BT	30	15

Frequency Stability vs. Temperature

		± 30 ppm	± 50 ppm	± 100 ppm	± 150 ppm	+10/-100 ppm
-20 °C ~ +70 °C	STD.	○	●			○ BT-cut
-40 °C ~ +85 °C	T1	○	○	●		
-40 °C ~ +105 °C	T2		○	○		
-40 °C ~ +125 °C	T3				○	

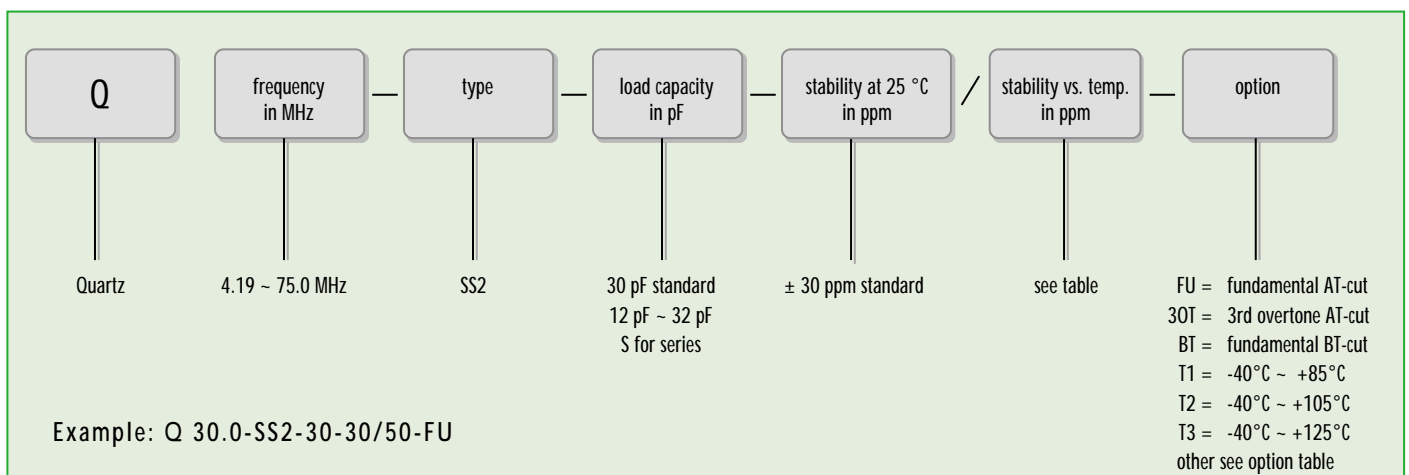
● standard
○ on request

Marking

frequency with load capacitance code
company code / date code / internal code

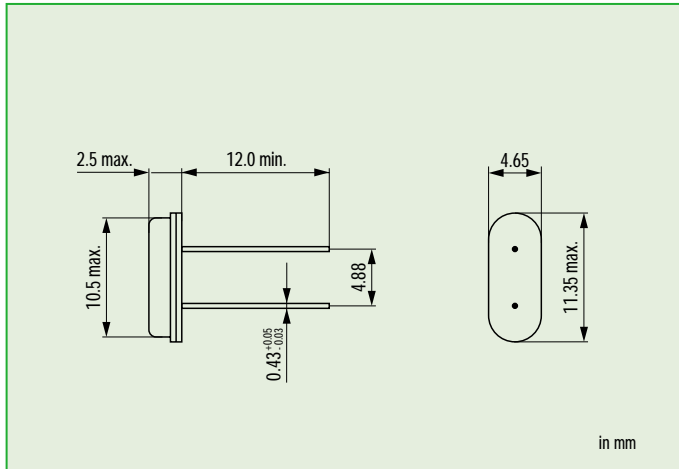
	Jan.	Febr.	Mar.	Apr.	May	June	July	Aug.	Sept.	Okt.	Nov.	Dec.
2000	n	p	q	r	s	t	u	v	w	x	y	z
2001	A	B	C	D	E	F	G	H	J	K	L	M
2002	N	P	Q	R	S	T	U	V	W	X	Y	Z
2003	a	b	c	d	e	f	g	h	j	k	l	m

Order Information

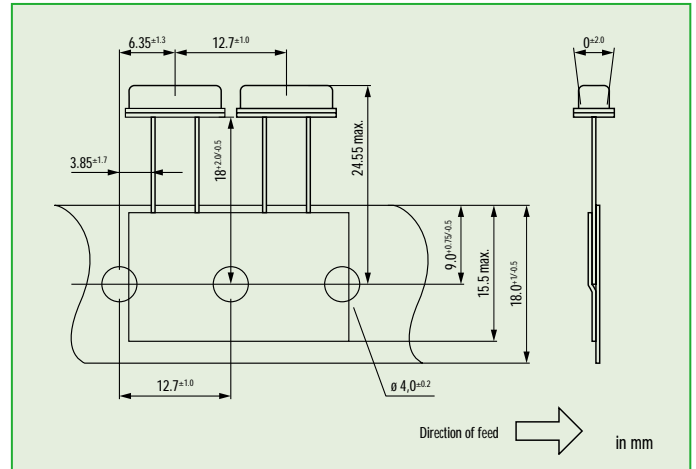


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Dimensions



Taping Specification



Load Capacitance Codes

7 pF: m	13 pF: v	18 pF: f	27 pF: w
8 pF: k	14 pF: x	20 pF: c	30 pF: .
9 pF: n	15 pF: j	22 pF: g	32 pF: e
11 pF: i	16 pF: b	24 pF: d	series: s
12 pF: a	17 pF: t	25 pF: r	T: 3rd OT

example 4.0 MHz / 12 pF: 4a000

Option Table

TR = taped	KIS = spacer
IS = insulation spacer	LL = lead length in mm