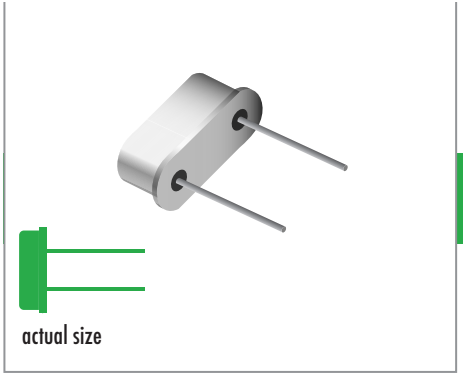

Quartz Crystal · SS2

Through Hole Quartz Crystal

Features

- RoHS compliant
- 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.	500 µW (100 µW recommended)	
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.
2004	n	p	q	r	s	t	u	v	w	x	y	z
2005	A	B	C	D	E	F	G	H	J	K	L	M
2006	N	P	Q	R	S	T	U	V	W	X	Y	Z
2007	a	b	c	d	e	f	g	h	j	k	l	m

Order Information

Q	frequency in MHz	—	type	—	load capacity in pF	—	stability at 25 °C in ppm	/	stability vs. temp. in ppm	—	option
Quartz	4.19 ~ 75.0 MHz		SS2		12 pF ~ 32 pF S for series		± 30 ppm standard		see table		blank = -20°C ~ +70°C FU = fundamental AT-cut 3OT = 3rd overtone AT-cut BT = fundamental BT-cut T1 = -40°C ~ +85°C T2 = -40°C ~ +105°C T3 = -40°C ~ +125°C other see option table LF = Pb free contact pins / pads

Example: Q 30.0-SS2-30-30/50-FU

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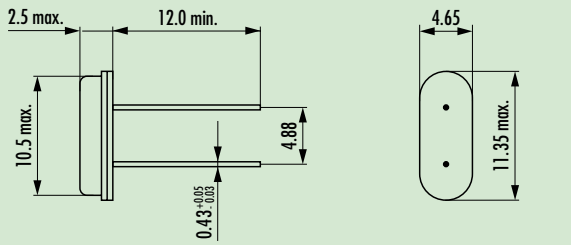
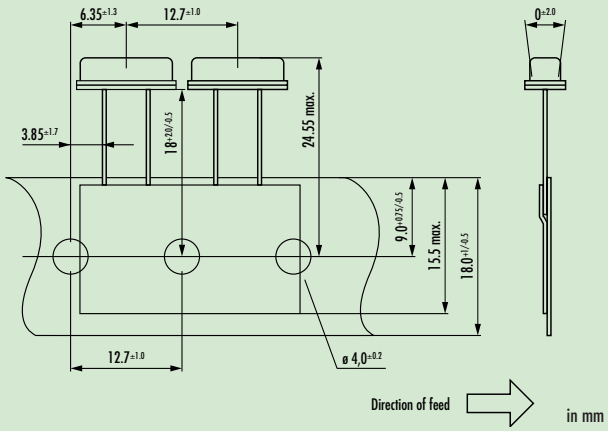
Quartz Crystal · SS2

Dimensions



in mm

Taping Specification



in mm

Load Capacitance Codes

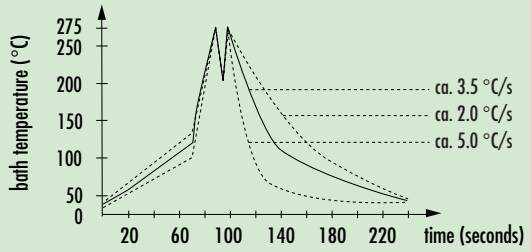
7 pF: m	13 pF: v	20 pF: c	32 pF: e
8 pF: k	14 pF: x	22 pF: g	series: s
9 pF: n	15 pF: j	24 pF: d	T: 3rd OT
10 pF: h	16 pF: b	25 pF: r	
11 pF: l	17 pF: t	27 pF: w	
12 pF: a	18 pF: f	30 pF: .	

example 4.0 MHz / 12 pF: 4a000

Option Table

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

Wave Soldering Profile



note: parts are also suitable for soldering systems with lead (Pb) content

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