

Table 1

ENCLOSURE	H [mm]	CODE	
HC-49/U	13.2	20	
	10.6	21	up 400 KHz, X-Cut up 600 KHz, SL-Cut

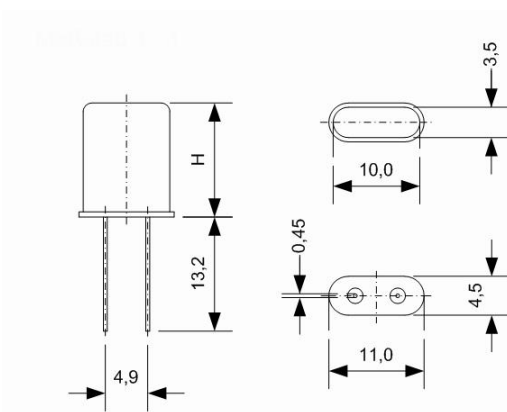


Table 2

240 ... 1100 KHz		Unit	Condition
Frequency range	240 ... 1100	KHz	
Crystal cut			See table 3
Enclosure	HC-49/U		
Mode	Fundamental		
Load capacitance	10 – 100 pF or Series	pF	
Shunt capacitance		pF	
Motional capacitance			
Resistance R_R			see table 6
Frequency adjustment			see table 4
Nominal temperature and temp. stability			see table 5
Aging 1 st year	< ± 10	ppm	

Table 3

CRYSTAL CUT	FREQUENCY [KHz]						Code
	300 ... 500	400 ... 500	240 ... 440	440 ... 800	440 ... 1100	600 ... 1100	
Longitudinal resonator	X	X					X
DT-Cut			DT				DT
CT-Cut				CT			CT
SL-Cut					SL	SL	SL

Table 4

FREQUENCY ADJUSTMENT AT +25°C ± 2°C	FREQUENCY [KHz]						Code
	300 ... 500	400 ... 500	240 ... 440	440 ... 800	440 ... 1100	600 ... 1100	
Frequency adjustment / ppm	± 10	± 10	± 10	± 10	± 10	± 10	J1
	± 20	± 20	± 20	± 20	± 20	± 20	B2
	± 50	± 50	± 50	± 50	± 50	± 50	H2

Table 5

FREQUENCY STABILITY OVER TEMPERATURE RELATED TO + 30°C		FREQUENCY DEVIATION [ppm]						
X:	x	- 10	- 20	- 50	- 75	- 100	- 150	- 200
DT and SL:	o							
CT:	+							
Temperature range	Code	01	02	03	04	05	06	07
+ 10 ... + 40°C	A	o	+xO	+xO	+xO	+xO	+xO	+xO
0 ... + 50°C	B		o	+xO	+xO	+xO	+xO	+xO
- 10 ... + 60°C	H		o	o	+o	+xO	+xO	+xO
- 20 ... + 70°C	M			o	o	+o	+xO	+xO
- 30 ... + 80°C	R				o	o	o	+xO
- 55 ... + 105°C	W						o	o

Table 6

MAX. RESISTANCE R _R	Crystal Cut	FREQUENCY [KHz]	R _{RMAX} [KΩ]
	X	300 - 500	2
	DT	240 - 440	1.5
	CT	440 - 800	1
	SL	440 - 700	0.8
		700 - 1100	1.5

Table 6

Odering Code ⁽¹⁾	FREQUENCY [KHz]	CRYSTAL CUT CODE: TABLE 3	ENCLOSURE CODE: TABLE 1	LOAD CAP.: 00: SERIES 30: 30 pF TABLE 2	ADJ. Tolerance CODE: TABLE 4	TEMP: RANGE CODE: TABLE 5	FREQ. STAB. OVER TEMP. CODE: TABLE 5
	455	SL	20	30	B2	H	05

⁽¹⁾ Other specifications on request