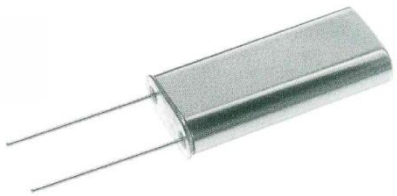
Datenblatt/Datasheet
QTNF-HC34U

Date: 22.10.2014
ROHS-compliance

Table 1

ENCLOSURE	H [mm]	CODE	
HC-34/U	25.3 38.5 51.5 64.1	See table 3	



Maßstab 1:1

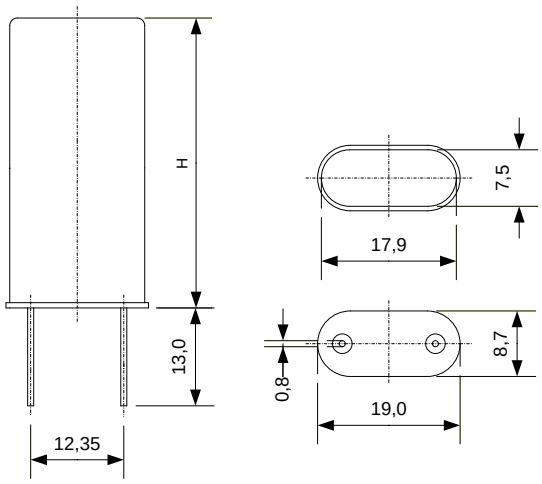


Table 2

10.0 ... 190 KHz		Unit	Condition
Frequency range	10.0 ... 190	KHz	
Crystal cut			See table 3
Enclosure	HC-34/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 1st year	< ± 10	ppm	

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Table 3

CRYSTAL CUT AND ENCLOSURE HEIGHT	FREQUENCY [KHz]						
	10 ... 30	30 ... 50	45 ... 60	60 ... 80	80 ... 140	140 ... 190	Code
Flexural resonator	XY	XY					XY
Longitudinal resonator			X	X	X	X	X
Enclosure Height H	38.5 mm				38.5 mm		34/38
		25.3 mm				25.3 mm	34/25
			64.1 mm				34/64
				51.5 mm			34/50

Table 4

FREQUENCY ADJUSTMENT AT +25°C ± 2°C	FREQUENCY [KHz]						
	10 ... 30	30 ... 50	45 ... 60	60 ... 80	80 ... 140	140 ... 190	Code
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]					
		- 20	- 50	- 75	- 100	- 150	- 200
Temperature range	Code	02	03	04	05	06	07
+ 10 ... + 40°C	A	o	o	o	o	o	o
0 ... + 50°C	B	o	o	o	o	o	o
- 10 ... + 60°C	H			o	o	o	o
- 20 ... + 70°C	M				o	o	o

Table 6

MAX. RESISTANCE R_R	Crystal Cut	FREQUENCY [KHz]	R_{RMAX} [KΩ]
	XY	10 - 30	50
		30 - 50	30
	X	45 - 80	0.7
		80 - 140	1
		140 - 190	2

Table 6

Odering Code [1]	FREQUENCY [KHz]	CRYSTAL CUT CODE: TABLE 3	ENCLOSURE CODE: TABLE 3	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
	77.5	XY	34/50	30	B2	H	05

[1] **Other specifications on request**

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