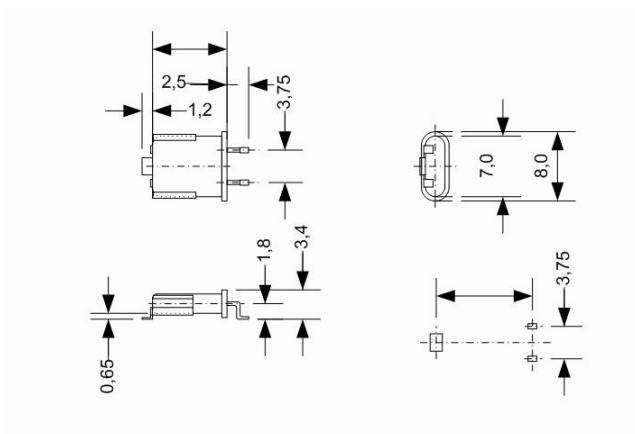


Table 1

ENCLOSURE	H [mm]	CODE	
HC-52/U-SMD	8.6	08	
	7.8	09	starting with 10 MHz
	5.9	10	starting with 15 MHz



Metal Housing: Resistance Weld
Inert gas N₂/He
Laser engraving

Table 2

5.0 ... 250 MHz		Unit	Condition
Frequency range	5 - 250	MHz	
Crystal cut	AT		
Enclosure	HC-52/U-SMD		
Mode	1. 5 - 40 3. 20 - 100 5. 50 - 160 7. 100 - 210 9. 140 - 250	MHz	Fundamental 3 rd overtone 5 th overtone 7 th overtone 9 th overtone
Load capacitance	10 – 60pF or Series	pF	
Shunt capacitance	5 - 10 MHz: < 3.0 pF 10 – 15 MHz: < 5.0 pF 15 – 250 MHz: < 7.0 pF	pF	
Motional capacitance			
Resistance R _R			see table 5
Frequency adjustment			see table 3
Nominal temperature and temp. stability			see table 4
Aging 1 st year	< 2.0 – 3.0	ppm	
Shock	100 g / 6 ms		
Vibration	10 g _{SS} / 1.5 mm _{SS} 50 – 500 Hz		
Δf / f	< 5.0	ppm	
ΔR / R	< 20 %		

Table 3

FREQUENCY ADJUSTMENT AT NOMINAL TEMPERATURE	FREQUENCY [MHz]					
	5.0 ... 40	20 ... 100	50 ... 160	100 ... 210	140 ... 250	Code
Mode	1	3	5	7	9	
Frequency adjustment / ppm	± 3	± 3	± 3			C1
	± 5	± 5	± 5	± 5	± 5	E1
	± 10	± 10	± 10	± 10	± 10	J1
	± 20	± 20	± 20	± 20	± 20	B2
	± 50	± 50	± 50	± 50	± 50	H2

Table 4

NOMINAL TEMPERATURE AND TEMPERATURE TOLERANCE			
Temperature	Code	Temperature tolerance	Code
+ 40°C	40	± 3	C
+ 50°C	50	± 5	E
+ 55°C	55		
+ 60°C	60		
+ 65°C	65		
+ 70°C	70		
+ 75°C	75		
+ 80°C	80		
+ 85°C	85		
+ 90°C	90		
+ 95 °C	95		

Table 5

MAX. RESISTANCE R _R	MODE	FREQUENCY [MHz]	R _{RMAX} [Ω]
	1	5 - 7.5	80
		7.5 - 9	60
		9 - 12	30
		12 - 16	16
		16 - 35	12
	3	20 - 30	42
		30 - 50	30
		50 - 100	22
	5	100 - 160	70
	7	100 - 210	160
	9	140 - 250	200

Table 6

Odering Code ⁽¹⁾	FREQUENCY [MHz]	ENCLOSURE CODE: TABLE 1	MODE: 1: FUND. 3,5,7,9: OT TABLE 2	LOAD CAP.: 00: SERIES 32: 32 pF TABLE 2	ADJ. Tolerance CODE: TABLE 3	NOMINAL TEMPERATURE CODE: TABLE 4	SHUNT CAPACITANCE 25: 2.5 pF TABLE 2
	12.8	08	1	32	J1	70C	25

⁽¹⁾ Other specifications on request

