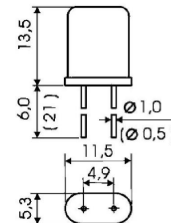
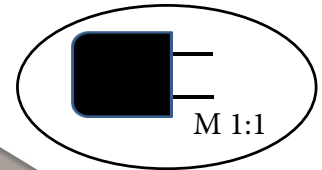


**Electrical Performance**

Parameter	Units	Value
Frequency range (Operating mode):		
- Fundamental	MHz	1.5...20
- 3	MHz	20...50
- 5	MHz	50...100
Frequency tolerance:		
1.5-1.9 MHz	ppm	±10 (class 5) for an interval K, L, M, N
2-3.199999 MHz		±15 (class 6)
3.2-3.5 MHz		±20 (class 7)
3.5-4.99999 MHz		±30 (class 8)
5-12 MHz		±50 (class 9)
12-20 MHz		±75 (class 10)
20-50 MHz		±100 (class 11)
50-100 MHz		
Series resistance:		
1.5 to 1.999999 MHz	Om	500
2 to 3.199999 MHz	Om	300
3.2 to 3.5 MHz	Om	150
ov. 3.5 to 4.999999 MHz	Om	100
5 to 12 MHz	Om	60
ov. 12 to 20 MHz	Om	30
ov. 20 to 50 MHz	Om	80
ov. 50 to 100 MHz	Om	120


 Metal package (HC-50/U); (HC-49/U)  
 nitrogen filling

**Environmental**

- Vibrations 1...2000 Hz, 20g
  - Mechanical shock of single action 500g,
  - Mechanical shock of repeated action 150g
  - Linear acceleration 50g
- Frequency stability versus influence in limiting modes ≤30.0ppm

**Frequency Stability (Over Operating Temperature range)**

Temperature range, °C (code)	Frequency range, MHz	Stability, ppm (code)													
		(I) ±3	(K) ±5	(L) ±7.5	(M) ±10	(N) ±15	(P) ±20	(R) ±25	(S) ±30	(F) ±35	(T) ±40	(U) ±50	(Q) ±75	(H) ±100	(Z) ±150
+65...+75 (I)	1.5...100	+	+	+	+										
+15...+45 (L)		+	+	+	+	+	+								
0...+50 (M)		+	+	+	+	+	+								
-10...+60 (A)		+	+	+	+	+	+	+	+	+	+	+			
-25...+55(R)					+	+	+	+	+	+	+	+	+	+	
-30...+60 (B)					+	+	+	+	+	+	+	+	+	+	
-40...+70 (V)						+	+	+	+	+	+	+	+	+	
+60...+85 (D)								+	+	+	+	+	+	+	+
-60...+100 (E)												+	+	+	+

**Long Term Frequency Stability**

Frequency stability after:  
 0000 hrs of continuous operation ≤ 0,0ppm;  
 5 years of storage ≤ 0.0ppm

Resonator RK1 Ah- 10000K

