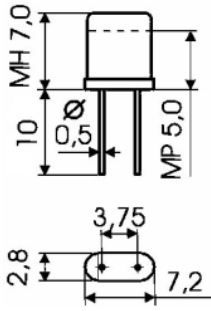
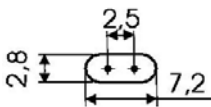
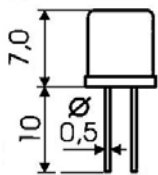


Quartz Crystal RK 419 industry



Metal package  
Version  
MN and MR  
Solder-dipped leads

Pic. 1



Metal package  
Version  
MM  
Solder-dipped leads

Pic. 2

Frequency range, MHz	Operating mode	Series resistance max, Ω	Frequency tolerance, ppm
4...6 (MN,MM)	Fundamental	200	± 5 (class 4); ± 10 (class 5); ± 15 (class 6); ± 20 (class 7); ± 30 (class 8)
6...9	Fundamental	60	
9...17	Fundamental	40	
17...45	Fundamental	25	
30...105	3	50	
75...165	5	70	

Package Pic. 1, 2

Mechanical characteristics
- Vibration 1... 500 Hz, 10g - Mechanical shock of single action, 150g - Mechanical shock of repeated action, 40g - Linear acceleration 100g
Frequency stability versus influences in limiting modes: ≤ ± 15,0 ppm

Aging
Frequency stability after 50 000 hrs of continuous operation ± 20,0 ppm
Frequency stability after 25 years of storage ± 20,0 ppm during the first year ≤ ± 10,0 ppm

Temperature range, °C, (Class)	Frequency stability max,ppm (Class)										
	(Zh) ± 2.5	(I) ± 3.0	(K) ± 5.0	(L) ± 7.5	(M) ± 10.0	(N) ± 15.0	(P) ± 20.0	(R) ± 25.0	(S) ± 30.0	(T) ± 40.0	(U) ± 50.0
0...+45 (L)	*	*	*	*	*	*	*	*	*	*	*
0...+50 (M)	*	*	*	*	*	*	*	*	*	*	*
-10...+60 (A)		*	*	*	*	*	*	*	*	*	*
-25...+55 (R)			*	*	*	*	*	*	*	*	*
-30...+60 (B)				*	*	*	*	*	*	*	*
-40...+70 (V)					*	*	*	*	*	*	*
-40...+55 (V1)					*	*	*	*	*	*	*
-60...+85 (D)						*	*	*	*	*	*

Ordering Information:

Product name (RK419) +Class frequency tolerance (5) +Class temperature range (B) +Class frequency stability (S) + Frequency (fundamental mode - kHz, 3rd & 5th overtone – MHz)+ K (kHz) or M (MHz). :

**e.g.: Cristal RK419MN-5BS-10000K**

Freq. versus temperat. characteristic, typical

