Crystals in ceramic SMD packages

General application

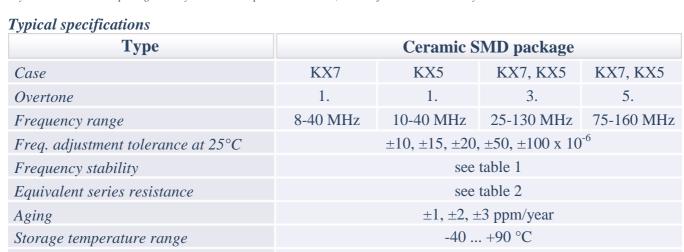
Telecommunications, measuring devices, medical devices

Feature

Small size ceramic package designed for SMD, KX7 is hermetically sealed by seam welding, KX5 is hermetically sealed by seam welding or by glas-frit welding (non-magnetic)

Assembly, taping

Crystals in ceramic SMD packages can by delivered in tapes wound on reels, suitable for automatic assembly.



Differences from standard values and other parameters can be consulted.

Frequency stability in temperature ranges (table 1)

Temperature range [°C]		Frequency stability [ppm]							
		± 5	± 7.5	± 10	± 15	± 20	± 30	± 50	± 100
		1	2	3	4	5	6	7	8
-10 +60	Α	\leq	\leq	\leq	\leq	\leq	\leq	\leq	\leq
-20 +60	В		\leq						
0 +70	С		\leq						
-10 +70	D		\leq						
-20 +70	Е			\leq	\leq	\leq	\leq	\leq	\leq
-30 +60	F			\leq	\leq	\leq	\leq	\leq	\leq
-20 +85	G				\leq	\leq	\leq	\leq	\leq
-30 +70	Н				\leq	\leq	\leq	\leq	\leq
-30 +85	1					\leq	\leq	\leq	\leq
-40 +85	J					\leq	\leq	\leq	\leq
-40 +90	K						\leq	\leq	\leq
-40 +105	L						\leq	\leq	\leq

Equivalent series resistance (ESR_{max}) (table 2)

Frequency [HMz]	Overtone	KX7	KX5
8 10	1.	70 Ω	
10 15	1.	60 Ω	60 Ω
15 22	1.	50 Ω	60 Ω
22 30	1.	40 Ω	50 Ω
30 40	1.	30 Ω	40 Ω
25 30	3.	50 Ω	50 Ω
30 50	3.	50 Ω	50 Ω
50 80	3.	60 Ω	80 Ω
75 160	5.	80 Ω	80 Ω

series resonance, C_L= 10 ... 40 pF

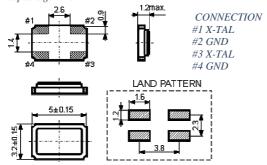
7 pF max.

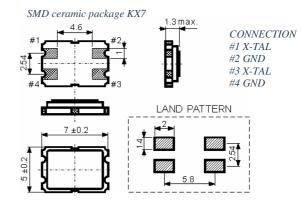
 $100 \mu W$

Outline dimensions [mm] SMD ceramic package KX5

Load capacitance
Shunt capacitance

Drive level





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