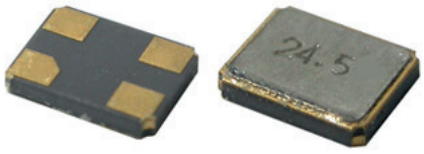
X25 CERAMIC SURFACE-MOUNT CRYSTAL

FEATURES

- Ultra Small SMD package
- Tight Stability available
- Automotive Temperature Range
- Applications: Bluetooth, Wireless applications, Modems, IoT, ...

2.5 x 2.0 x 0.60 mm



Item	Symbol	Specification
Frequency Range	Fo	12 MHz ~ 80 MHz
Operation Mode		Fundamental
Operating temperature Range	To	-20° to +70°C (see options)
Frequency Tolerance at 25°C	Δf/F	± 50ppm max. (see options)
Temperature Stability	Δf/F	± 50ppm max. (see options)
Load Capacitance (CL)	CL	series or 6 pF to 50 pF (see options)
Equivalent Series Resistance	ESR	See Table 1
Shunt Capacitance (Co)	Co	3pF Max
Insulation Resistance	Ri	500 MΩ min. (at 100Vdc)
Drive Level	DL	10µW typical, 100µW max.
Aging	Δf/F	±1ppm max (at 25°C, first year)
Packing Unit		3000pcs / reel
Soldering Condition		260°C, 10 sec x2 max
		Customer specifications on request

TABLE 1: Standard ESR

Frequency (MHz)	ESR (Ω) max.
12.0 - 15.99	100
16.0 - 19.9	80
20.0 - 29.9	50
30.0 - 80.0	40

OPTIONS & ORDERING INFORMATION

X25- .... -..... MHz

Freq. Tolerance	Freq. Stability	Operating Temp.	Load Capacitance	Mode	ESR if other than STD	Frequency in MHz
10 = ±10 ppm **15** = ±15 ppm **20** = ±20 ppm **25** = ±25 ppm **30** = ±30 ppm **50** = ±50 ppm	**05** = ± 5 ppm **10** = ±10 ppm **15** = ±15 ppm **20** = ±20 ppm **25** = ±25 ppm **30** = ±30 ppm **50** = ±50 ppm	**D** = -10° / +60°C **E** = 0° / +70°C **F** = -20° / +70°C **G** = -30° / +75°C **H** = -30° / +85°C **K** = -40° / +85°C **L** = -40° / +105°C **M** = -40° / +125°C	Please specify CL in **pF** or **S** for Series	**F** = Fundamental	Specify a value in Ω	Please specify the frequency in MHz

* Note : Not all combinations are possible, please consult us.

OUTLINE DIMENSIONS