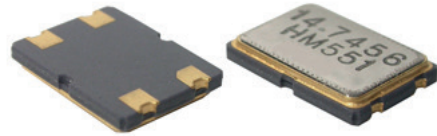


# X75 CERAMIC SURFACE-MOUNT CRYSTAL

## FEATURES

- Small SMD package, 4 pad version
- Tight Tolerance & Stability available
- Wide Frequency Range
- Applications: Computers, Modem, Communication

7.0 x 5.0 x 1.2 mm



Item	Symbol	Specification
Frequency Range	Fo	6 MHz ~ 160 MHz
Operation Mode		6.0 MHz ~ 80.0 MHz Fundamental (see options) 40.0 MHz ~ 160.0 MHz 3rd-overtone (see options)
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 8 pF to 50 pF (see options)
Equivalent Series Resistance	ESR	See Table 1
Shunt Capacitance (Co)	Co	7pF Max
Insulation Resistance	Ri	500 MΩ min. (at 100Vdc)
Drive Level	DL	100μW typical, 300μW max.
Aging	Δf/F	±3ppm max (at 25° C, first year)
Packing Unit		1000pcs / reel
Soldering Condition		260° C, 10 sec x2 max
		<b>Customer specifications on request</b>

TABLE 1: Standard ESR

Frequency (MHz)	ESR (Ω) max.	Frequency (MHz)	ESR (Ω) max.
6.0 - 7.99	80	40.0 - 49.9, 3rd overtone	90
8.0 - 15.9	60	50.0 - 160.0, 3rd overtone	80
16.0 - 80.0	40		

## OPTIONS & ORDERING INFORMATION

X75-	.....	.....	.....	.....	.....	..... MHz	- .....
	Freq. Tolerance	Freq. Stability	Operating Temp.	Load Capacitance	Mode	Frequency in MHz	ESR if other than STD
	10 = ±10 ppm	10 = ±10 ppm	D = -10° / +60° C	Please specify CL in pF or S for Series	F = Fundamental	Please specify the frequency in MHz	Specify a value in Ω
	15 = ±15 ppm	15 = ±15 ppm	E = 0° / +70° C		D = 3rd overtone		
	20 = ±20 ppm	20 = ±20 ppm	F = -20° / +70° C				
	25 = ±25 ppm	25 = ±25 ppm	G = -30° / +75° C				
	30 = ±30 ppm	30 = ±30 ppm	H = -30° / +85° C				
		50 = ±50 ppm	K = -40° / +85° C				
			L = -40° / +105° C				
			M = -40° / +125° C				
			N = -55° / +125° C				

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

## OUTLINE DIMENSIONS

