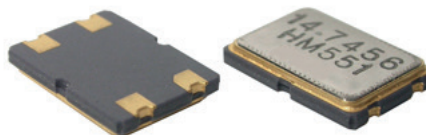


X75 CERAMIC SURFACE-MOUNT CRYSTAL

FEATURES

- Not recommended for new designs
- 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	$\Delta f/F$	± 50 ppm max. (see options)
Temperature Stability	$\Delta f/F$	± 50 ppm 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 M Ω min. (at 100Vdc)
Drive Level	DL	100 μ W typical, 300 μ W max.
Aging	$\Delta f/F$	± 3 ppm max (at 25°C, first year)
Packing Unit		1000pcs / reel
Soldering Condition		260°C, 10 sec x2 max
		Customer specifications on request

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	ESR if other than STD	Frequency in MHz
	10 = ± 10 ppm	10 = ± 10 ppm	D = -10° / +60°C	Please specify CL in pF or S for Series	F = Fundamental	Specify a value in Ω	Please specify the frequency in MHz
	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

