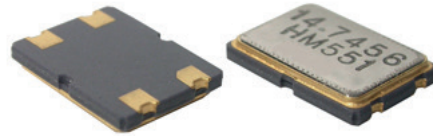


X75 CERAMIC SURFACE-MOUNT CRYSTAL

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 | 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 |
| | | 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 | 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

