CARDINAL COMPONENTS

Ceramic Surface Mount Crystals

The Cardinal CX17A and CX17C are epoxy sealed ceramic crystals. The advantages of short height (1.7 mm max), two different terminal patterns, and lower cost are combined in this popular Cardinal SMD crystal.

Series CX17A **CX17C**

Part Numbering Example: CX17A Z - A1 B2 C2 60 - 10.0 D18 - 3

CX17A **B2** C2 60 10.0 **D18** SERIES ADDED FEATURES OPERATING TEMP. STABILITY TOLERANCE RESISTANCE FREQUENCY LOAD CAP D16,18,20,ETC. BLANK: FUND. CX17A BLANK = BULK PACK A0 = -10°C ~ +60°C $B1 = \pm 100$ $C1 = \pm 100$ SEE CHART -3: 3rd OT CX17C Z = TAPE AND REEL A1 = -10° C ~ $+70^{\circ}$ C $B2 = \pm 50$ $C2 = \pm 50$ **BELOW** DS = SERIES

 $A2 = -40^{\circ}C \sim +85^{\circ}C$ $B3 = \pm 30$ $C3 = \pm 30$ $A3 = -55^{\circ}C \sim +125^{\circ}C$ $B4 = \pm 10$ C4 =

-5: 5th OT -7: 7th OT -BT: BT Cut

*NOTE: The above ABC combinations cover basic specification options. We tailor our crystal specifications to meet customer requirements. Please contact our sales department if you don't see exactly what you need.

Specifications:

Frequency Range: 10.000 ~ 100.000 MHz

Operating Temperature: -10°C ~ +60°C Standard

-40°C ~ +85°C

Frequency Stability: ±100 ppm Standard

± 50 ppm

Frequency Tolerance: ± 50 ppm Standard

(at 25°C)

Load Capacitance: Standard 16 pF or series.

Other values are available.

Resistance: Maximum resistance corresponds to frequency.

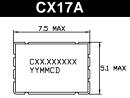
See chart below.

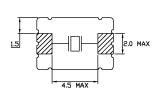
Standard: Mode: Fundamental, 3rd, or 5th Overtone

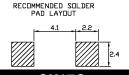
Shunt Capacitance: 7 pF Max

Aging: ± 5 ppm/year Drive Level: 100 µW

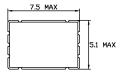
Packaging: Tape and Reel (1K per Reel)

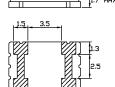


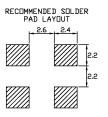




CX17C







Resistance Chart: All resistances are maximum values.

EQUIVALENT SERIES RESISTANCE (ESR), MODE OF OPERATION (MODE), AND CUT					
Frequency MHz	$ESR(\Omega)$	Mode/cut	Frequency MHz	ESR (Ω)	Mode/cut
9.500~10.999	60 Max	Fund./AT	35.000~39.999	100 Max	3rd Overtone/AT
11.000~13.999	50 Max	Fund./AT	40.000~49.999	80 Max	3rd Overtone/AT
14.000~15.999	40 Max	Fund./AT	50.000~89.999	50 Max	3rd Overtone/AT
16.000~40.000	30 Max	Fund./AT	90.000~100.000	100 Max	5th Overtone/AT