CARDINAL COMPONENTS

Ultra Miniature Surface Mount Crystals

- · Very low height
- Very low drive level
- · Small size excellent for next generation products

Series

CX45



Part Numbering Example: CX45 - Z - A1 B2 C2 100 - 10.0 D18 - 3

CX45

B2

10.0

D18

SERIES ADDED FEATURES OPERATING TEMP. STABILITY TOLERANCE RESISTANCE FREQUENCY D16,18,20,ETC. BLANK: FUND. CX45 BLANK = BULK PACK A0 = -10°C ~ +60°C $B1 = \pm 100$ $C1 = \pm 100$ SEE CHART

 $Z = TAPE AND REEL A1 = -10°C \sim +70°C$ $B2 = \pm 50$ $C2 = \pm 50$ $A2 = -40^{\circ}C \sim +85^{\circ}C$ $B3 = \pm 30$ $C3 = \pm 30$

 $A3 = -55^{\circ}C \sim +125^{\circ}C$ $B4 = \pm 10$ $C4 = \pm 10$ **BELOW**

DS = SERIES

-3: 3rd OT -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:

10.000~45.000 MHz Frequency Range:

AT- Cut Fundamental

Operating Temperature: -0°C ~ +60°C Standard

-40°C ~ +85°C

Frequency Stability: ±100 ppm AT-Cut

> ± 50 ppm Standard

± 30 ppm ± 10 ppm

Frequency Tolerance:

± 50 ppm Standard

(at 25°C)

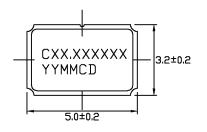
Load Capacitance: Please specify your required load.

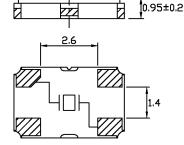
Resistance: See chart below.

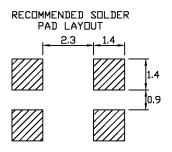
Standard: Shunt Capacitance: 7 pF Max

> Aging: ± 5 ppm/year Drive Level: 100 µW Max Packaging: Tape and Reel

CX45







Resistance Chart: All resistances are maximum

EQUIVALENT SERIES RESISTANCE (ESR), MODE OF OPERATION (MODE)			
Frequency MHz		ESR (Ω)	Oscillation Mode
10.0	~ 11.999	100	Fundamental
12.0	~ 15.999	60	Fundamental
16.0	~ 29.999	50	Fundamental
30.0	~ 45.000	40	Fundamental



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