CARDINAL COMPONENTS

Ultra Miniature Surface Mount Crystals

Series

CX45

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

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

SERIES ADDED FEATURES OPERATING TEMP. STABILITY TOLERANCE RESISTANCE FREQUENCY

100

10.0

D18

CX45 B2

 $B4 = \pm 10$

CX45 BLANK = BULK PACK A0 = -10°C ~

+60°C $Z = TAPE AND REEL A1 = -10°C \sim +70°C$ $A2 = -40^{\circ}C \sim +85^{\circ}C$ $A3 = -55^{\circ}C \sim +125^{\circ}C$

 $B1 = \pm 100$ $C1 = \pm 100$ $B2 = \pm 50$ $C2 = \pm 50$ $B3 = \pm 30$ $C3 = \pm 30$

 $C4 = \pm 10$

SEE CHART **BELOW**

D16,18,20,ETC. BLANK: FUND. 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:

Frequency Range: 10.000 ~ 45.000 MHz 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: Standard ± 50 ppm

(at 25°C)

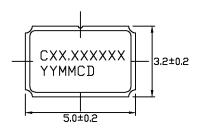
Load Capacitance: Please specify your required load.

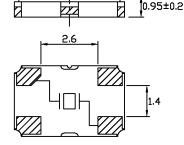
Resistance: See chart below.

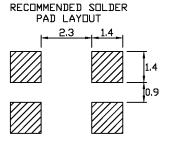
Standard: Shunt Capacitance: 7 pF Max

> 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)				
Fred	quency	MHz	ESR (Ω)	Oscillation Mode
10.0	~ ′	11.999	100	Fundamental
12.0	~ ′	15.999	60	Fundamental
16.0	~ 2	29.999	50	Fundamental
30.0	~ 4	45.000	40	Fundamental

