

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**

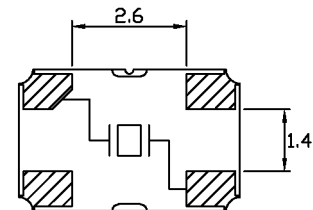
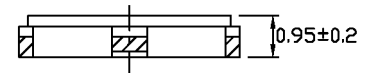
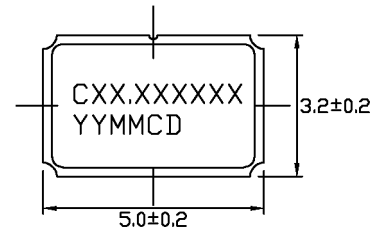
SERIES	ADDED FEATURES	OPERATING TEMP.	STABILITY	TOLERANCE	RESISTANCE	FREQUENCY	LOAD CAP.	OVERTONE
CX45	BLANK = BULK PACK Z = TAPE AND REEL	A0 = -10°C ~ +60°C A1 = -10°C ~ +70°C A2 = -40°C ~ +85°C A3 = -55°C ~ +125°C	B1 = ±100 B2 = ± 50 B3 = ± 30 B4 = ± 10	C1 = ±100 C2 = ± 50 C3 = ± 30 C4 = ± 10	SEE CHART BELOW	100 10.0	D16,18,20,ETC. DS = SERIES	BLANK: FUND. -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.

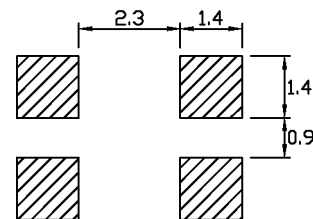
Specifications:

Frequency Range:	12.000~45.000 MHz
Operating Temperature:	AT-Cut Fundamental -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



RECOMMENDED SOLDER PAD LAYOUT



Resistance Chart: All resistances are maximum

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

