

# Ceramic Surface Mount Crystals

- Very low drive level
- Wide frequency range
- Tight stabilities and tolerances

Series **CX635A**  
**CX635B**



Part Numbering Example: **CX635A Z - A1 B2 C2 50 - 11.0 D18 - 3**

CX635A	Z	A1*	B2	C2	50	11.0	D18	- 3
SERIES	ADDED FEATURES	OPERATING TEMP.	STABILITY	TOLERANCE	RESISTANCE	FREQUENCY	LOAD CAP.	OVERTONE
CX635A	BLANK = BULK PACK	A0 = -10°C ~ +60°C	B1 = ±100	C1 = ±100	SEE CHART		D16,18,20,ETC.	BLANK: FUND.
CX635B	Z = TAPE AND REEL	A1 = -10°C ~ +70°C	B2 = ± 50	C2 = ± 50	BELOW		DS = SERIES	-3: 3rd OT
		A2 = -40°C ~ +85°C	B3 = ± 30	C3 = ± 30				-5: 5th OT
		A3 = -55°C ~ +125°C	B4 = ± 10	C4 = ± 10				-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:

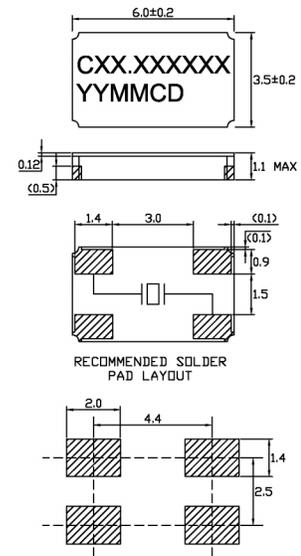
<b>Frequency Range:</b>	11.000 ~ 150.000 MHz
<b>Operating Temperature:</b>	-10°C ~ +70°C <i>Standard</i> -20°C ~ +70°C -40°C ~ +85°C
<b>Frequency Stability:</b>	±50 ppm <i>Standard</i> ±30 ppm ±10 ppm ± 5 ppm
<b>Frequency Tolerance:</b>	±50 ppm <i>Standard</i> (at 25°C) ±30 ppm ±10 ppm
<b>Load Capacitance:</b>	Standard 18pF or series. Other values are available.
<b>Resistance:</b>	Maximum resistance corresponds to frequency. See chart below.
<b>Standard:</b>	Mode: Fundamental, 3rd or 5th Overtone Shunt Capacitance: 7 pF Max Aging: ± 5 ppm/year Drive Level: 50 µW Packaging: Tape and Reel (1K per Reel)

Note: Not all combinations of the above tolerances, stabilities, and temperature ranges are available. Consult the factory if your requirement is not standard.

## Resistance Chart: All resistances are maximum

EQUIVALENT SERIES RESISTANCE (ESR), MODE OF OPERATION (MODE)		
Frequency MHz	ESR (Ω)	Oscillation Mode
11.0 ~ 13.99	50	Fundamental
14.0 ~ 24.99	40	Fundamental
25.0 ~ 54.99	30	Fundamental
55.0 ~ 100.00	70	3rd Overtone
100.0 ~ 150.00	100	5th Overtone

### CX635A



### CX635B

