

Ceramic Surface Mount

- Lowest maximum drive level available
- Widest frequency range
- Very tight stabilities

Series **CX5**



Part Numbering Example: **CX5 Z - A1 - B2 - C2 60 - 10.0 D18 - 3**

CX5	Z	A1*	B2	C2	60	10.0	D18	- 3
SERIES	ADDED FEATURES	OPERATING TEMP.	STABILITY	TOLERANCE	RESISTANCE	FREQUENCY	LOAD CAP.	OVERTONE
CX5	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		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:

9.000 ~ 40.320 MHz	AT-Cut Fundamental
40.000 ~ 90.000 MHz	3rd Overtone
90.000 ~ 150.000 MHz	5th Overtone

Operating Temperature:	0°C ~ +70°C	Standard
	-40°C ~ +85°C	

Frequency Stability:	± 50 ppm	Standard
	Stabilities from ± 5 ppm available.	

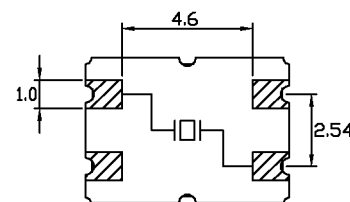
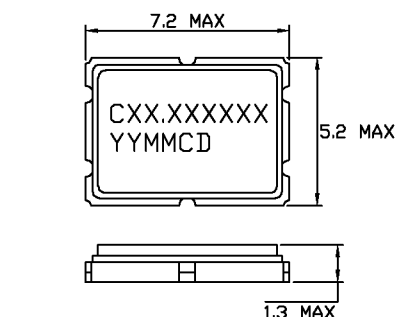
Frequency Tolerance:	± 50 ppm	Standard
(at 25°C)	Tolerances from ± 10 ppm available.	

Load Capacitance:	Parallel or series. Please specify your required load.	
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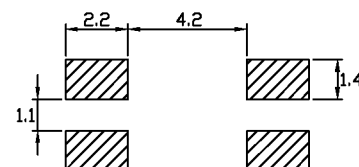
Resistance:	Maximum resistance corresponds to frequency. See chart below.	
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Standard:	Shunt Capacitance: 7 pF Max Aging: ± 3 ppm first year Drive Level: 50 µW Max Packaging: Tape and Reel (1K per Reel)	
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CX5



RECOMMENDED SOLDER PAD LAYOUT



Resistance Chart: All resistances are maximum

EQUIVALENT SERIES RESISTANCE (ESR), MODE OF OPERATION (MODE), AND CUT					
Frequency MHz	ESR(Ω)	Mode/cut	Frequency MHz	ESR(Ω)	Mode/cut
9.500~10.999	60 Max	Fund./AT	40.000~49.999	80 Max	3rd Overtone/AT
11.000~13.999	50 Max	Fund./AT	50.000~89.999	50 Max	3rd Overtone/AT
14.000~15.999	40 Max	Fund./AT	90.000~150.000	100 Max	5th Overtone/AT
16.000~39.999	30 Max	Fund./AT			

