Micro AT-Strip Crystals

Cardinal micro crystals are small substitutes for the HC-49 package.
They are perfect for applications involving tight board density.

Series CMS8

Pb
RoHS COMPLIANT
2002 / 95 / EC

Part Numbering Example: CMS8 - A1 B2 C2 150 - 3.579545 D18 - 3

| CMS8	A1*	B2	C2	150	3.57945	D18	-3
SERIES	**ADDED FEATURES**	**OPERATING TEMP.**	**STABILITY**	**TOLERANCE**	**RESISTANCE**	**FREQUENCY**	**LOAD CAP.**	**OVERTONE**
CSM8	Call Marketing	A0 = -10°C ~ +60°C A1 = -10°C ~ +70°C A2 = -40°C ~ +85°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

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:	3.579545 ~ 64.000 MHz
Operating Temperature:	-10°C ~ +60°C *Standard*
Frequency Stability:	± 100 ppm ± 50 ppm *Standard* ± 30 ppm
Frequency Tolerance: *(at 25°C)*	± 100 ppm ± 50 ppm *Standard* ± 30 ppm
Load Capacitance:	Standard 18 pF or series. Please specify your required load.
Resistance:	Maximum resistance corresponds to frequency. See chart below.
Standard:	Mode: Fundamental or 3rd Overtone Shunt Capacitance: 7 pF Max Aging: ± 5 ppm/year Drive Level: 1.0 mW Max
Optional Features:	Formed Leads Vinyl Sleeves

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

CMS8
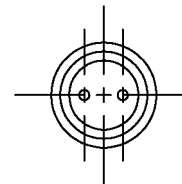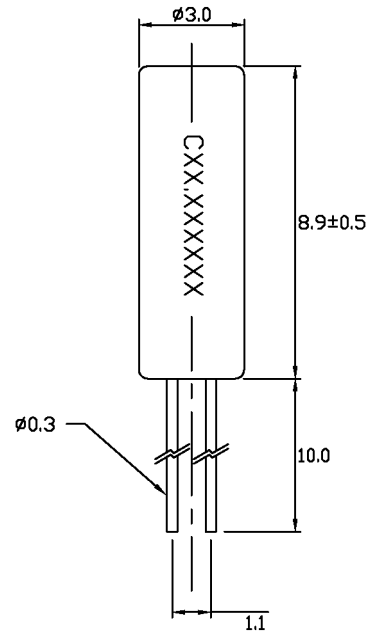
Resistance Chart: *All resistances are maximum values.*

CMS		
Frequency MHz	**Mode of Operation**	**ESR (Ω)**
3.579545 ~ 3.999999		200Ω
4.000000 ~ 4.999999		150Ω
5.000000 ~ 5.999999		120Ω
6.000000 ~ 6.999999		100Ω
7.000000 ~ 8.999999		80Ω
9.000000 ~ 12.999999		60Ω
13.000000 ~ 24.999999		50Ω
25.000000 ~ 42.000000	Fundamental	40Ω
25.000000 ~ 48.000000	Third Overtone	80Ω
48.000001 ~ 64.000000	Third Overtone	60Ω