CARDINAL COMPONENTS

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



Part Numbering Example: CSM8 - Z - A1 B2 C2 150 - 3.579545 D18 - 3

CMS8	; Z	A 1*	B2	C ₂	150	3.579545	D18	- 3
SERIES	ADDED FEATURES	OPERATING TEMP	. STABILITY	TOLERANCE	RESISTANCE	FREQUENCY	LOAD CAP.	OVERTONE
CMS8	F = FORMED LEADS	$A0 = -10^{\circ}C \sim +60^{\circ}C$	B1 = ± 100	$C1 = \pm 100$	SEE CHART		D16,18,20,ETC.	BLANK: FUND.
	W = VINYL SLEEVING	$A1 = -10^{\circ}C \sim +70^{\circ}C$	B2 = \pm 50	$C2 = \pm 50$	BELOW		DS = SERIES	-3: 3rd OT

 $Z = TAPE \text{ AND REEL } A2 = -40^{\circ}C \sim +85^{\circ}C \quad B3 = \pm 30 \quad C3 = \pm 30$ $A3 = -55^{\circ}C \sim +125^{\circ}C \quad B4 = \pm 10 \quad C4 = \pm 10$

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:	± 100 ppm
(at 25°C)	± 50 ppm Standard
	± 30 ppm
Load Canacitance: S	tandard 18 nF or series

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

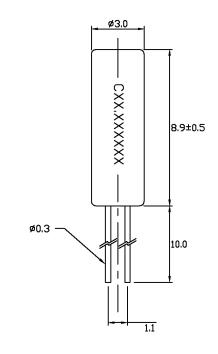
Vinyl Sleeves

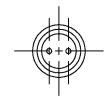
Note: Not all combinations of the above tolerances, stabilities, and temperature ranges are available. Consult the factory if your requirement is not standard.

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	

CMS8







^{*}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.