Low Profile Surface Mount Crystals

Cardinal "AT-Strip" surface mount crystals are among the most readily available on the market today. Many popular frequencies are kept in stock at our facility.

Series

CSM₁



Part Numbering Example: CSM1 Z - A1 B2 C2 200 - 3.579545 D18 - 3

CSM1 3.579545 **2**00 SERIES ADDED FEATURES OPERATING TEMP. STABILITY TOLERANCE RESISTANCE SEE CHART CSM1 BLANK = BULK PACK A0 = -10°C ~ +60°C $B1 = \pm 100$ = ±100

Z = TAPE AND REEL A1 = -10° C ~ $C2 = \pm 50$ +70°C $B2 = \pm 50$ $A2 = -40^{\circ}C \sim +85^{\circ}C$ $B3 = \pm 30$ $C3 = \pm 30$ $A3 = -55^{\circ}C \sim +125^{\circ}C$ $B4 = \pm 10$ $C4 = \pm 10$

BELOW

DS = SERIES

BLANK: FUND. D16,18,20,ETC.

-3: 3rd OT -5: 5th OT -7: 7th OT

-BT: BT Cut

Specifications:

Frequency Range:

3.579545 ~ 38.000 MHz AT Cut Fundamental 25.000000 ~ 75.000 MHz AT Cut 3rd Overtone 26.000000 ~ 48.000 MHz BT Cut Fundamental

Operating Temperature: -10°C ~ +70°C Standard

-40°C ~ +85°C

Frequency Stability: ±100 ppm

> ± 50 ppm Standard

30 ppm ± 15 ppm

Frequency Tolerance: ±100 ppm

(at 25°C) ± 50 ppm Standard

> ± 30 ppm ± 10 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

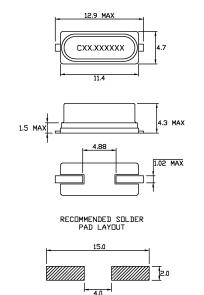
Optional Features: Tape and Reel (1K per Reel)

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 values.

EQUIVALENT SERIES RESISTANCE (ESR), MODE OF OPERATION (MODE), AND CUT					
Frequency MHz	$ESR(\Omega)$	Mode/cut	Frequency MHz	ESR (Ω)	Mode/cut
3.579545~4.999	200 Max	Fund./AT	15.000~15.999	60 Max	Fund./AT
5.000~5.999	150 Max	Fund./AT	16.000~23.999	50 Max	Fund./AT
6.000~7.999	120 Max	Fund./AT	24.000~30.000	40 Max	Fund./AT
8.000~8.999	90 Max	Fund./AT	24.000~48.000	40 Max	Fund./BT
9.000~9.999	80 Max	Fund./AT	24.576~29.999	150 Max	3rd Overtone/AT
10.000~14.999	70 Max	Fund./AT	30.000~75.000	100 Max	3rd Overtone/AT

CSM1





Cardinal Components, Inc.

155 Route 46 West Wayne, NJ 07470 Rev: C-090414-11

(973)785-1333 TEL:

E-MAIL: sales@cardinalxtal.com WEB: http://www.cardinalxtal.com

^{*}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.