BELOW

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 В2 **2**00 SERIES ADDED FEATURES OPERATING TEMP. STABILITY TOLERANCE RESISTANCE SEE CHART CSM1 BLANK = BULK PACK A0 = -10°C ~ +60°C $B1 = \pm 100$ $C1 = \pm 100$

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

 $A3 = -55^{\circ}C \sim +125^{\circ}C$ $B4 = \pm 10$ $C4 = \pm 10$ 3.579545

DS = SERIES

D16,18,20,ETC.

-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:

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)

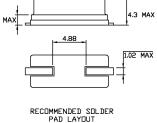
Note: Not all combinations of the above tolerances, stabilities, and temperature ranges are available. Consult the factory if your requirement is not standard.

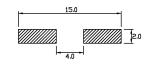
Resistance Chart: All resistances are maximum values.

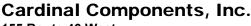
EQUIVALENT SERIES RESISTANCE (ESR), MODE OF OPERATION (MODE), AND CUT					
Frequency MHz	$ESR(\Omega)$	Mode/cut	Frequency MHz	ESR (Ω)	Mode/cut
3.579545~4.999	200 Max	Fund./AT	15.000~15.999	60 Max	Fund./AT
5.000~5.999	150 Max	Fund./AT	16.000~23.999	50 Max	Fund./AT
6.000~7.999	120 Max	Fund./AT	24.000~30.000	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









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