imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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CARDINAL COMPONENTS

Low Profile Surface Mount Crystals

- 3.0 mm Maximum SMD profile
- Very cost competitive
- Fast delivery



Part Numbering Example: CSM4 Z - A1 B2 C2 200 - 3.579545 D18 - 3

CSM4	T	A1*	B2	C2	200	3.579545	D18	- 3
SERIES	ADDED FEATURES	OPERATING TEMP.	STABILITY	TOLERANCE	RESISTANCE	FREQUENCY	LOAD CAP.	OVERTONE
CSM4	BLANK = BULK PACK	A0 = -10°C ~ +60°C	$B1 = \pm 100$	$C1 = \pm 100$	SEE CHART		D16,18,20,ETC.	BLANK: FUND.
CSM5	Z = TAPE AND REEL				BELOW		DS = SERIES	-3: 3rd OT
		A2 = -40°C ~ +85°C	$B3 = \pm 30$	$C3 = \pm 30$				
			B4 = + 10	C4 = +10				

*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.

CSM4 **Specifications:** 12.9 MAX **Frequency Range:** CXX.XXXXXX AT Cut Fundamental 4.7 3.579545 ~ 38.000 MHz AT Cut 3rd Overtone 25.000000 ~ 75.000 MHz 11.4 **Operating Temperature:** -10°C ~ +70°C Standard -40°C ~ +85°C 3.5 MAX 1.5 MAX **Frequency Stability:** ±100 ppm Standard ± 50 ppm 4.88 ± 30 ppm 1.02 MAX ±15 ppm **Frequency Tolerance:** ±100 ppm (at 25°C) ±50 ppm Standard RECOMMENDED SOLDER PAD LAYOUT ±30 ppm ±10 ppm 15.0 Load Capacitance: Standard 18 pF or series. Please specify your required load. 12.o **Resistance:** Maximum resistance corresponds to frequency. 40 See chart below. CSM5 Standard: Mode: Fundamental or 3rd Overtone 12.9 MA> Shunt Capacitance: 7 pF Max Aging: ± 5 ppm/year Drive Level: 1.0 mW Max CXX.XXXXX Tape and Reel (1K per Reel) **Optional Features:** 11.4

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

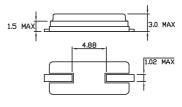
Resistance Chart: All resistances are maximum

EQUIVALENT SERIES RESISTANCE (ESR), MODE OF OPERATION (MODE), AND CUT										
Frequency MHz	ESR(Ω)	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								
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					

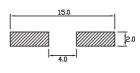
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