Surface Mount UM-1

Series CM1J

- ***Smaller than C49J with the same characteristics***
- ***SMD profile***
- ***Grounded case better for EMI***

Pb RoHS COMPLIANT 2002 / 95 / EC

Part Numbering Example: CM1J - Z - A1 B2 C2 50 - 7.0 D18 - 3

CM1J	Z	A1*	B2	C2	50	7.0	D18	- 3
SERIES	ADDED FEATURES	OPERATING TEMP.	STABILITY	TOLERANCE	RESISTANCE	FREQUENCY	LOAD CAP.	OVERTONE
CM1J	BLANK = BULK PACK Z = TAPE AND REEL	A0 = -10°C ~ +60°C A1 = -10°C ~ +70°C A2 = -40°C ~ +85°C A3 = -55°C ~ +125°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 -5: 5th OT -7: 7th OT -BT: BT Cut

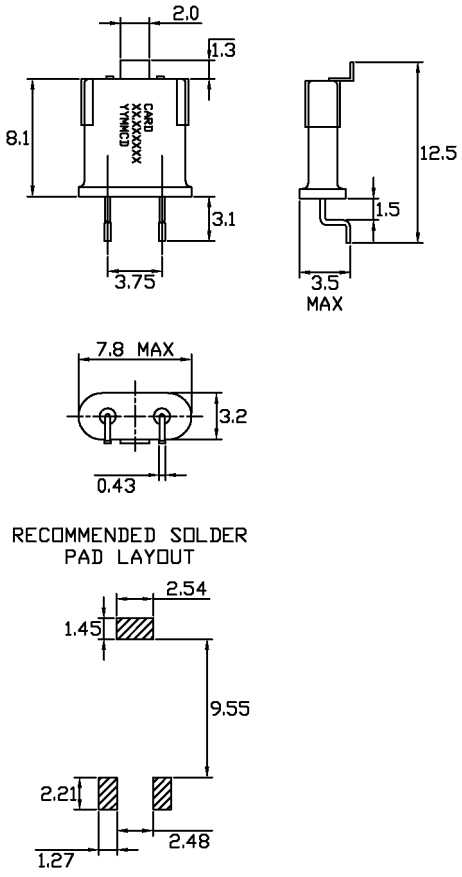
***NOTE:** The above ABC combinations cover basic specification options. We tailor our crystal specifications to meet customer requirements. Please contact our sales department if you don't see exactly what you need.*

Specifications:

Frequency Range:	10.000 ~ 175.000 MHz	
Operating Temperature:	-10°C ~ + 70°C	*Standard*
	-40°C ~ + 85°C	
	-55°C ~ +125°C	
Frequency Stability:	± 100 ppm	
	± 50 ppm	*Standard*
	± 30 ppm	
	± 10 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 below.	
Standard:	Mode: Fundamental, 3rd, 5th, or 7th 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.

CM1J



Resistance Chart: *All resistances are maximum values.*

EQUIVALENT SERIES RESISTANCE (ESR), MODE OF OPERATION (MODE), AND CUT		
Frequency MHz	**Equivalent Series Resistance (Ω)**	**Oscillation Mode / Cut**
7.000~15.999	50 Max	Fundamental
16.000~40.000	40 Max	Fundamental
30.000~90.000	70 Max	Third Overtone
70.000~175.000	100 Max	Fifth Overtone