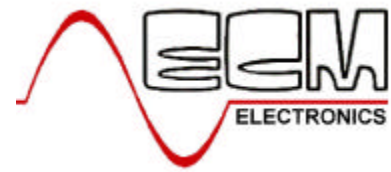
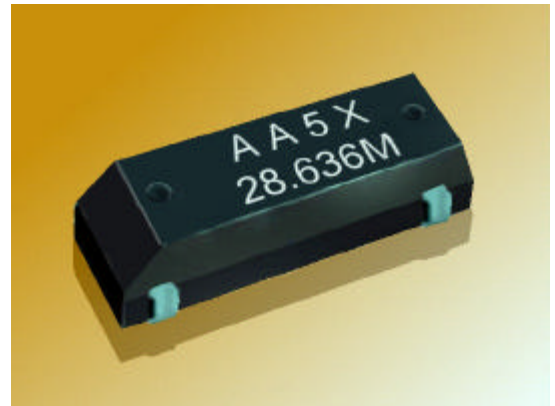


ECM Surface Mount Crystal



CM309S Series

- Molded Plastic Package
- Heat Resisting Internal Crystal
- Small Footprint for High Density
- Tape & Reel or Bulk Packaging
- Excellent Heat & Environmental Characteristics



Parameter	Symb	Min	Max	Unit	Note
Frequency Range		3.50	30.00	MHz	Fundamental
		30.001	70.00	MHz	3 rd Overtone
Operating Temperature	T _{OPR}	-40	+85	°C	
Storage Temperature	T _{STG}	-55	+125	°C	
Calibration Tolerance	$\Delta f/f_0$	± 30 or ± 50		ppm	@ 25 °C
Temperature Tolerance		± 30 or ± 50		ppm	-10°C to +60°C
Load Capacitance	C _L	Fundamental 10pF to ∞			
Equivalent Series Resistance	R ₁	50	200	Ω	Frequency dependent
Drive Level	DL	50	100	μ W	
Shunt Capacitance	C ₀	7pF max			
Insulation Resistance	IR	500M Ω min			DC100V ± 15 V
Aging	f _a	± 5 ppm / year max.			
Shock Resistance	S.R.	± 5 ppm max			3 x Drop from 75cm Or excitation test with 3000g x 0.3ms x 1/2 sine wave x 3 planes

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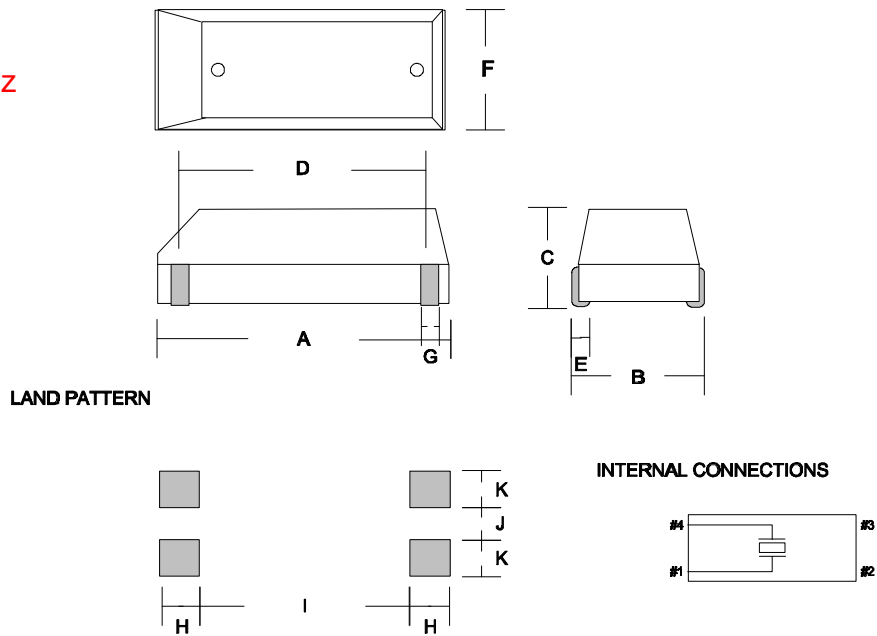
Although we have attempted to accurately reflect the products we market. ECM reserve the right without prior notice to discontinue any product or make design changes we believe necessary.

ECM Surface Mount Crystal

CM309S Series

Standard Frequencies

- ★ 3.6864MHz
- ★ 4.00MHz
- ★ 8.00MHz
- ★ 11.0592MHz
- ★ 12.00MHz
- ★ 14.31818MHz
- ★ 14.7456MHz
- ★ 16.00MHz
- ★ 20.00MHz
- ★ 22.1184MHz



Dimensions in mm

A	B	C	D	E	F	G	H	I	J	K
12.50	4.60	3.70	9.40	1.00	4.60	0.8	1.80	7.60	1.70	1.80