



*Part
Numbering
System*

Quartz Crystal Units

Exsample Part Number:

CM309S 20.000000M A B A TR

Product Family

For example:

CFS308
CFS206
CFS145
CFV308
CFV206
CSA310
CSA309
HC49US
HCM49
CM100S
CM200S
CM201
CM202
CM250S
CM309S
CM309A
CM309B
CS20
CS10
CMR200TA/B
CMR250TA/B
CMR309T
CMR310T
CM155
CM130
CSD35B

Frequency

Numerical value,
maximum
characters as
follows:

XX.XXXXXX
followed by "M" for MHz
or "K" for KHz.

Packaging method

TR Tape & Reel (Minimum size depends on
product family - see catalog)
B Bulk (Bags for through-hole,
tubes or tape for SMT)

Load Capacitance

A Series	I 16.0 pf	Q 10.0 pf
B 6.0 pf	J 18.0 pf	R 50.0 pf
C 9.0 pf	K 20.0 pf	S 11.0 pf
D 9.5 pf	L 22.0 pf	T 14.0 pf
E 12.0 pf	M 25.0 pf	U 17.0 pf
F 12.5 pf	N 30.0 pf	V 8.0 pf
G 13.0 pf	O 32.0 pf	
H 15.0 pf	P 33.0 pf	
...others to be assigned		

Frequency Tolerance (at Operating Temp.)

Frequency in MHz			
A	+/-30ppm (-10 to +60C)	•	
B	+/-50ppm (-10 to +60C)	•	(Standard)
C	+/-100ppm (-10 to +60C)	•	
D	+/-20ppm (-10 to +60C)	•	
E	+/-10ppm (-10 to +60C)	•	
F	+/-30ppm (-40 to +85C)	•	
G	+/-50ppm (-40 to +85C)	•	
H	+/-100ppm (-40 to +85C)	•	
I	+/-20ppm (-40 to +85C)	•	
J	+/-10ppm (-40 to +85C)	•	
K	+/-150ppm (-40 to +85C)	•	
L	+/-200ppm (-40 to +85C)	•	
M	+/-60ppm (-40 to +85C)	•	
N	+/-80ppm (-40 to +85C)	•	
O	+/-30ppm (-20 to +70C)	•	
P	+/-40ppm (-20 to +70C)	•	
Q	+/-50ppm (-20 to +70C)	•	
R	+/-60ppm (-20 to +70C)	•	
S	+/-70ppm (-20 to +70C)	•	
T	+/-80ppm (-20 to +70C)	•	
U	+/-80ppm (-40 to +100C)	•	
V	+/-100ppm (-40 to +100C)	•	
W	+/-150ppm (-40 to +100C)	•	
X	+/-200ppm (-40 to +100C)	•	

Frequency in KHz
Z Standard Specs (Standard)
• other than standard, consult factory.

Frequency Tolerance (at 25C)

Frequency in MHz			
A	+/-30ppm (Standard)	MHz	E +/-10ppm •
B	+/-50ppm (Standard)	MHz	F +/-15ppm •
C	+/-100ppm •		G +/-25ppm •
D	+/-20ppm (Standard)	32.768 KHz	
• other than standard, consult factory.			