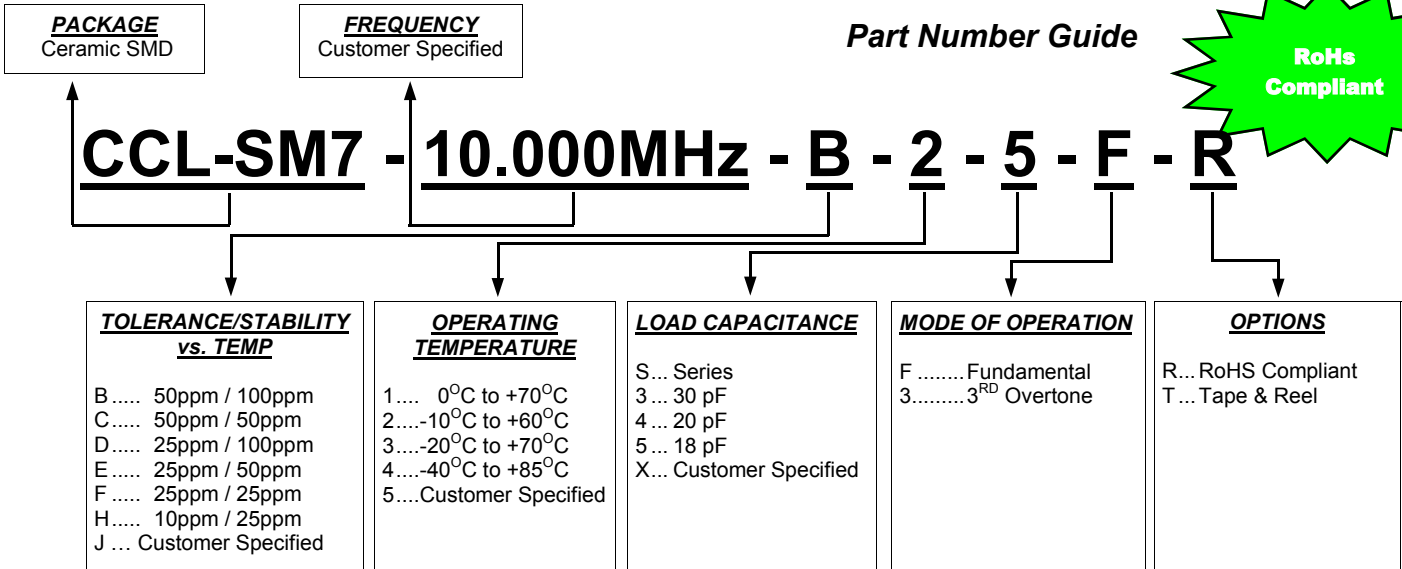


Ceramic 7.5 X 5.0 SMD Crystal

CCL-SM7 Series

Part Number Guide



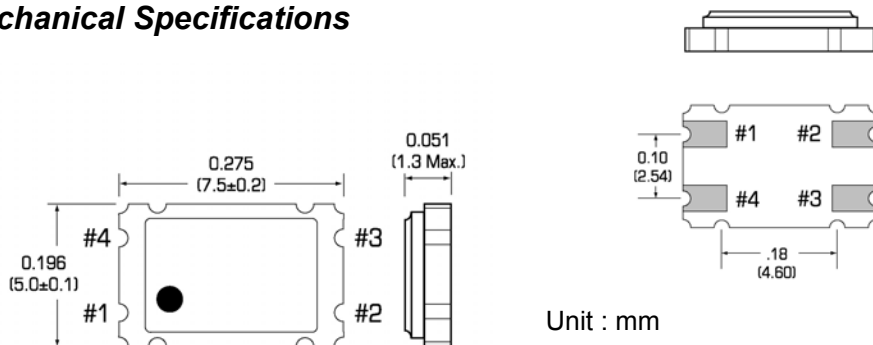
Electrical Specifications

Frequency Range	9.000 MHz ~ 100.000 MHz
Standard Frequencies	9.0 ~ 33.0MHz - Fundamental, 33.0 ~ 100.000MHz - 3 RD O.T.
Mode	Fundamental & 3 RD Overtone AT cut
Frequency Tolerance	±50ppm @ 25°C, Optional Tolerances Available
Temperature Tolerance	±50ppm 0°C to +70°C, Extended Temperatures Ranges Available
Storage Temperature	-55°C ~ +125°C
ESR	9.0MHz ~ 10.000MHz > 80Ω Max 10.000MHz ~ 13.000MHz > 60Ω Max 13.000MHz ~ 44.000MHz > 50Ω Max 44MHz ~ 100.000MHz > 100Ω Max
Shunt Capacitance	7pF Max.
Load Capacitance	Series Resonance, 16pF, 20pF, 30pF std.
Drive Level	0.01μW ~ 2000μW , 100μW Correlation
Aging	±5ppm Max. (25°C ±3°C)/ (1 st year)

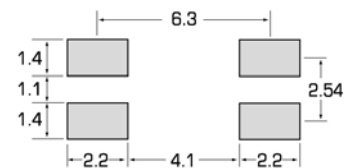
Package Data	
Item	Package
Lid	Metal
Base	Ceramic
Sealing	Seam-weld
Terminal Plating	Gold

Pin Connection	
# 1	Xtal
# 2	GND
# 3	Xtal
# 4	GND

Mechanical Specifications



Soldering Pattern



Land Patterns



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