

# SC-X7R212L

**用途 Application:**

PME-MLCC 介质瓷粉

Dielectric Powders for PME-MLCC

**瓷料特性 Features:**

- 材料体系: BaTiO<sub>3</sub>  
Material System: BaTiO<sub>3</sub>
- 瓷料符合 EIA X7R 特性  
Meets EIA X7R specification
- 空气中烧结, 烧结温度 1100°C  
Sinter in air. Sintering temperature is 1100°C
- 介电常数: K=2150±100  
Dielectric constant: K=2150±100
- 分散性好  
Good dispersion
- 环保型瓷料, 符合欧盟 RoHS 指令  
Environment friendly, RoHS compliant

### 物理特性 Typical Physical Properties

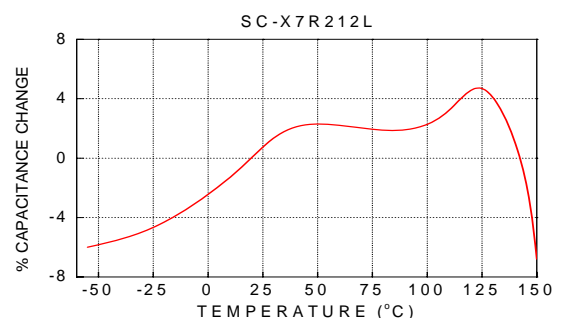
Density (g/cm <sup>3</sup> )	≧3.6
Surface Area (m <sup>2</sup> /g)	1.6~2.8
Particle Size (μ m)	D <sub>10</sub> 0.19
	D <sub>50</sub> 0.51
	D <sub>90</sub> 1.90
Moisture Content (120°C/5min)	≧0.3%
L.O.I (1100°C/1hr)	<0.2%

### 粉体 PSD 曲线 Powders PSD curve

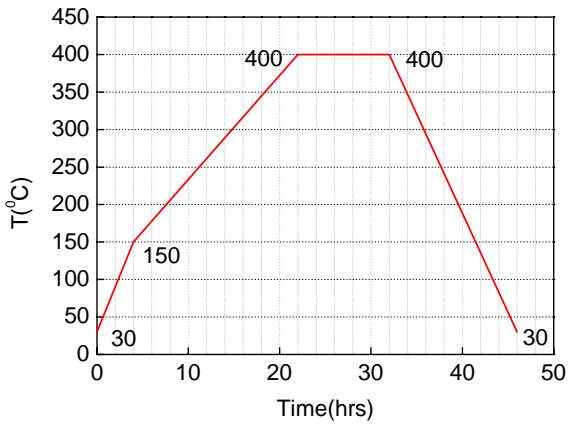
### MLCC 电性能 Electrical Properties of MLCC

K (1KHz, 1V, 25°C)	2050~2250
DF (1KHz, 1V, 25°C)	<1.8%
IR (25°C, 100V <sub>DC</sub> )	>5 × 10 <sup>10</sup> Ω
TCC up to 125°C	±15% Δ C Max
BDV (25°C)	>900V/mil

### TCC 曲线 Typical Temperature Coefficient



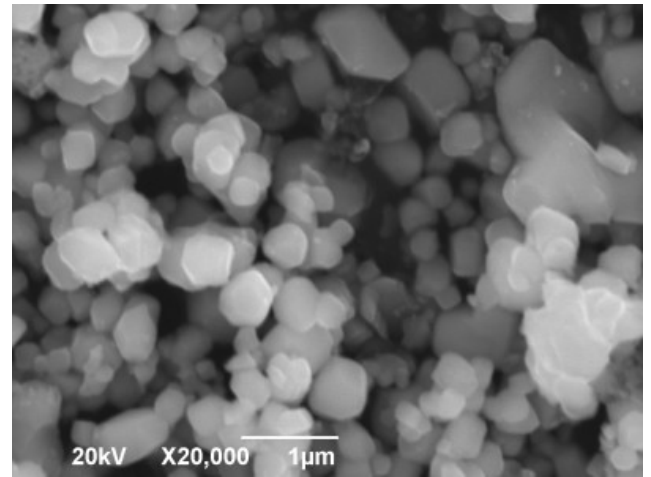
排胶曲线  
Binder Burn-Out Curve



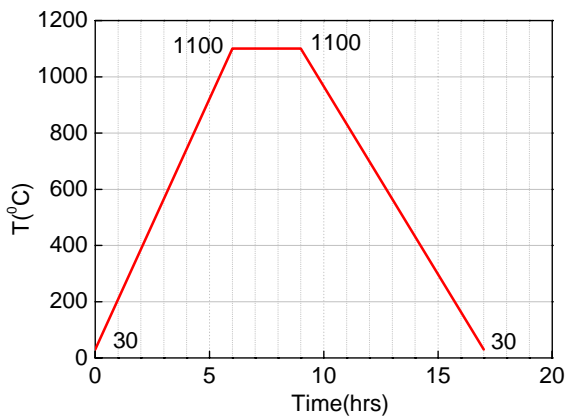
\*PVB 粘合剂系统(PVB binder System)

\*本曲线仅供参考(This curve is for reference only)

粉体 SEM 图  
Powders SEM



烧结曲线  
Sintering Curve



\*本曲线仅供参考(This curve is for reference only)

MLCC 断面 SEM 图  
MLCC Fracture Surface SEM

