

SC-X8R222L

用途 Application:

PME-MLCC 介质瓷粉

Dielectric Powders for PME-MLCC

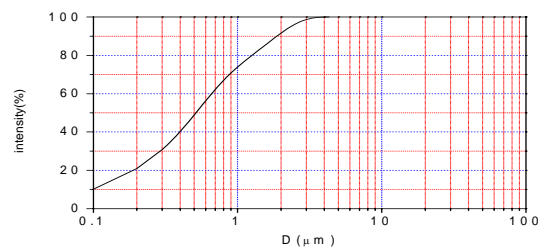
瓷料特性 Features:

- 材料体系: BaTiO₃
Material System: BaTiO₃
- 瓷料符合 EIA X8R 特性
Meets EIA X8R 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=2200±100
Dielectric constant: K=2200±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 ³)		≧3.6
Surface Area (m ² /g)		1.6~2.8
Particle Size (μ m)	D ₁₀	0.19
	D ₅₀	0.51
	D ₉₀	1.90
Moisture Content (120°C/5min)		≧0.3%
L.O.I (1100°C/1hr)		<0.2%

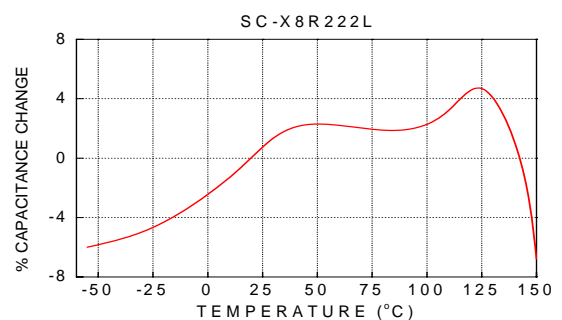
粉体 PSD 曲线 Powders PSD curve



MLCC 电性能 Electrical Properties of MLCC

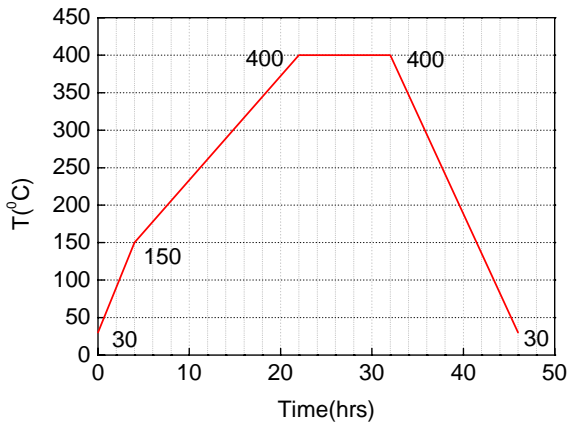
K (1KHz, 1V, 25°C)	2100~2300
DF (1KHz, 1V, 25°C)	<1.8%
IR (25°C, 100V _{DC})	>5 × 10 ¹⁰ Ω
TCC up to 150°C	±15% Δ C Max
BDV (25°C)	>900V/mil

TCC 曲线 Typical Temperature Coefficient

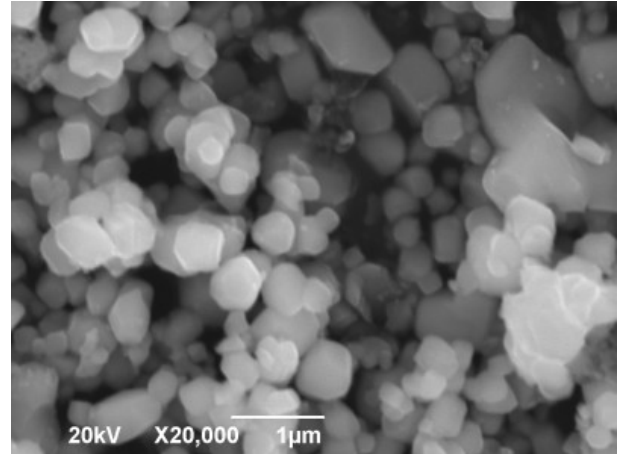


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排胶曲线
Binder Burn-Out Curve



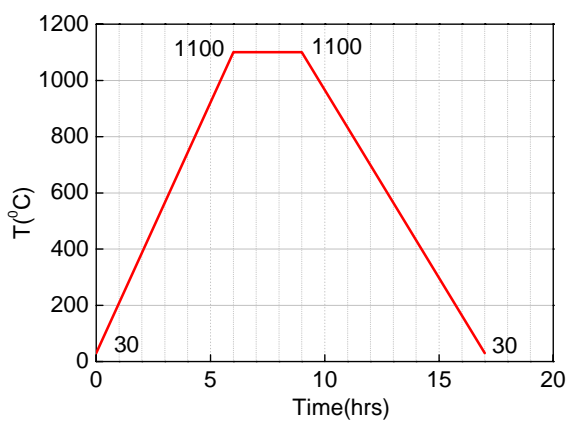
粉体 SEM 图
Powders SEM



*PVB 粘合剂系统(PVB binder System)

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

烧结曲线
Sintering Curve



MLCC 断面 SEM 图
MLCC Fracture Surface SEM



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