



LOW SINTERING-TEMPERATURE FERRITE POWDERS (TYPICAL CHARACTERISTICS)

PROPERTIES	LSF400	LSF220	LSF180	LSF120	LSF50	LSF25	LSF16
Initial Permeability, μ_i	450	260	180	140	60	25	16
Q Factor (w/ 10 turns)	95	90	180	180	150	150	125
Measuring Frequency (MHz)	0.2	0.2	0.5	1	5	15	10
Curie Temperature (°C)	150	150	150	200	350	> 400	500
Sintering Temperature (°C)	900	900	900	900	900	900	900
Sintered Density (g/cm ³)	5.20	5.20	5.20	5.20	5.20	5.20	5.20
Shrinkage (%)	15.5	15.5	15.5	15.5	15.5	15.5	15.5
APPLICATIONS	Low Temperature Co-fired Ceramic Components (LTCC) Multi-Layer Chip Inductors (MLCI) Chip Beads (EMI Suppressors) Multi-Layer Chip Impeders						

- ◆ **New!** – LSF25: Q Factor, 50 @ 100 MHz
- ◆ These powders do not contain binder.
- ◆ Typical physical properties: Mean Particle Size 0.5 μm ; BET Surface Area 5.5 m^2/g ; Moisture 0.3%
- ◆ Electromagnetic characteristics were tested on the sintered toroids by means of HP4294A.
- ◆ Test toroids were pressed with a small amount of binder added then sintered at 900° for 2 hours.
- ◆ Pressed toroid dimension: 20.62 mm OD x 11.30 mm ID x 5.08 mm HT at the density of 3.20 g/cm^3 .
- ◆ **No Lead (Pb) or Cadmium (Cd) was added to any of our products.**

For further information and answers to specific questions, please contact Kim Yim at 1-219-462-4141 ext. 263 or via e-mail at kyim@ppttechnology.com