

ENTRY

**We know
the drill.**



MAJOR ADVANTAGES:

- Minimize Drill Deflection
- Highest CpK
- Lubricated Coating

INCREDIBLE PERFORMANCE ON NEXT GEN PCBs



Introducing **BULLSEYE™ XTREME**.
LCOA has taken the industry's leading
ENTRY material and blown the doors off
of performance. That's big news.

Extraordinary CpK! Provides Exceptional Accuracy
– allows you to maintain hole location from the stack's
entry side to the exit side

Minimize Drill Deflection – lubricated coating holds
the drill immediately upon contact creating a perfect
bushing, eliminating deflection

Outstanding Hole Wall Quality. Forget the oval.
Celebrate true round.

Easy To Handle – lays flat on the PCB stack. The
material does not require gloves or any special han-
dling techniques.

LCOA™

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Engineered Entry Material

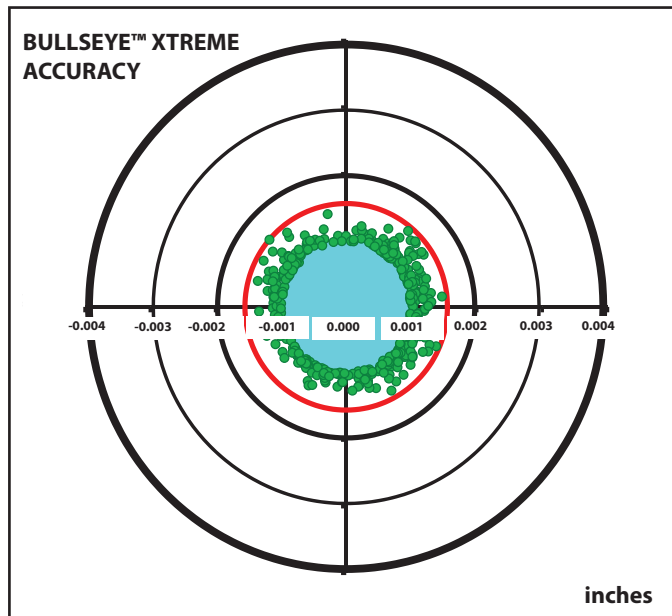
LCOA BULLSEYE™ XTREME is a unique, innovative entry material that offers the user the best possible accuracy on a full range of diameters used in PCB manufacturing. BULLSEYE™ XTREME is a combination of a non-contaminating carrier sheet and our proprietary coating, providing a unique surface for the drill to center and stabilize before entering the laminate. The proprietary coating is engineered to machine effortlessly without wrapping around the tool, turning to dust and evacuated by the vacuum system. BULLSEYE™ XTREME resists scratching, denting, and damage from the pressure foot.

HOLE EVALUATION

Quality Inspection (Hole wall quality):

Demonstrates excellent overall drilling accuracy, with a CpK of 3.64 with 0.003" radius.

True Position = 0.0016
3.64 CpK



CONDITIONS

- Material: Hi Tg Lead Free (2-sided Cu: 1oz/1oz)
- Stack: 2-high
- Panel Thickness: 0.059"
- Entry: **BULLSEYE™ XTREME**
- Drill Diameter: 0.0098"
- In-Feed: 105 IPM
- Chipload: 0.70 (mils per rev)
- RPM: 150,000 (375 SFM)
- Retract: 800 IPM

SPECIFICATIONS

- Thickness: 0.18mm \pm 0.025mm
- Quality Control

The consistent high quality of LCOA BULLSEYE™ XTREME is guaranteed by the tightest production tolerances in conjunction with permanent production controls corresponding to ISO-9001.
- Storage

LCOA BULLSEYE™ XTREME should remain in its original packing until use. It should be stored under the same temperature and humidity conditions that surround the working area.
- Best storage at:: 18° - 24°C < 50% rH
- 1 year shelf life (minimum)