

SEC - Horn Compensation

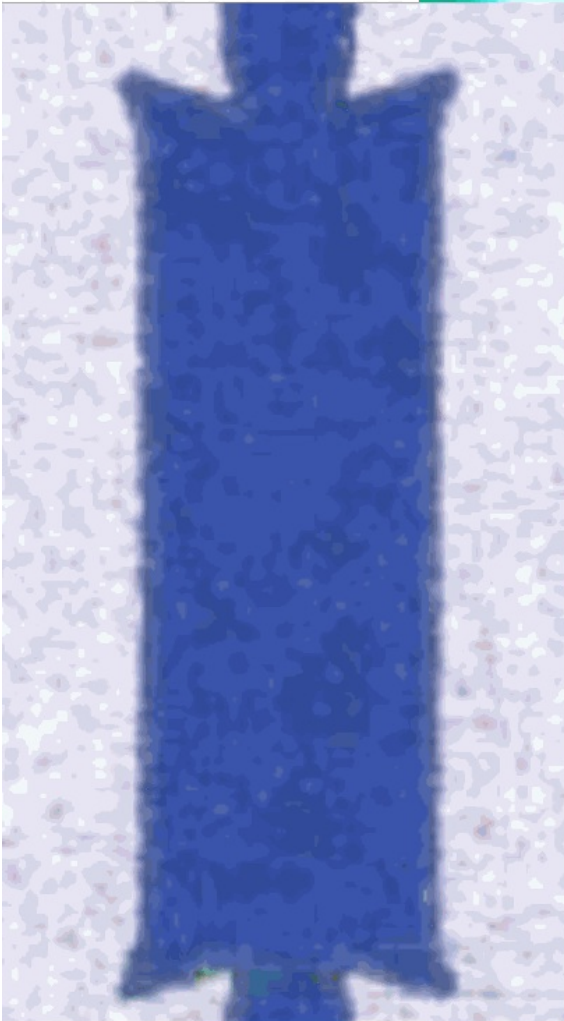
Features

- Add horns to critical SMD corners, with the right shape to protect them in your process
- Local shaving to guarantee clearance
- Easy-to-use interface and simple set-up
- Fully automatic

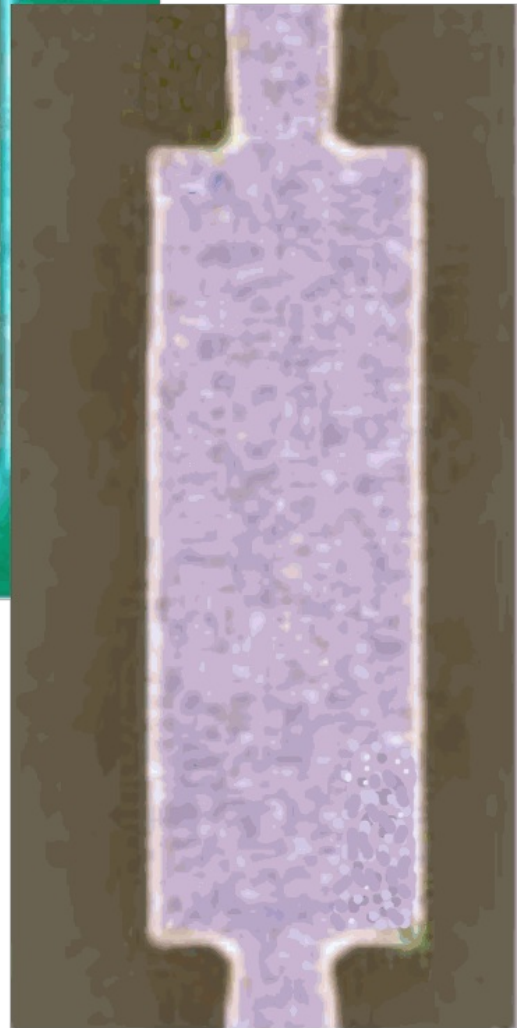
Benefits

- Pass end-customer inspection procedure with dedicated copper spread values for SMDs and pads
- Meet the exact width requirements for special tracks like impedance or coils
- Simplify etching by trimming copper regions to make space for compensating nearby tracks and pads
- Get the optimal copper spread wherever possible while ensuring the minimum clearance needed for perfect etching

After etching without horns



Before etching with horns



After etching with horns

- Simple to exclude texts, logos or impedance traces from compensation.
- Slash setup-time using parameter sets based on e.g. copper thickness or customer specifications.
- Perfect retracting of modifications made by SEC saving them within the job data. Easily return to the original data.
- Higher yield due to special treatment of critical objects.

- Fabricate denser geometries.
- Improving your etching results, saving money while increasing quality

Secure Etch Compensation

Parameter Set **SEC_demo_horns**

Spread		Clearance				
Type		Type	Pad	SMD	Track	Region
Pad	20 μm	Pad	150 μm	150 μm	150 μm	150 μm
SMD	20 μm	SMD		150 μm	150 μm	150 μm
Track	20 μm	Track			150 μm	150 μm
Region	20 μm	Region				150 μm

Horns

Max Width 510 μm Spread 40 μm Overlap 100 μm Extend 100 μm

Run FlashMaker Use Masks

Minimum Copper Width 100 μm

Process same-net clearance

Check missing original copper

Backup source layer

Shift to region

Keep original copper of region, if possible

Check Apply Undo

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