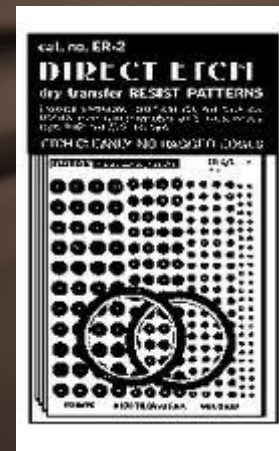


*ELTN 115 Lecture 5.3:
PCB Artwork for design*



Historical methods...

Used tape on acetate – with light table



Extensive manual process



no. 19.34. Drawing a printed circuit. The drawing is carefully planned and executed for photographic reproduction on the circuit board.

Note – in the audio I said this was from the 50's – more likely from the late 60's or 70's.



Light tables used with 4:1 artwork

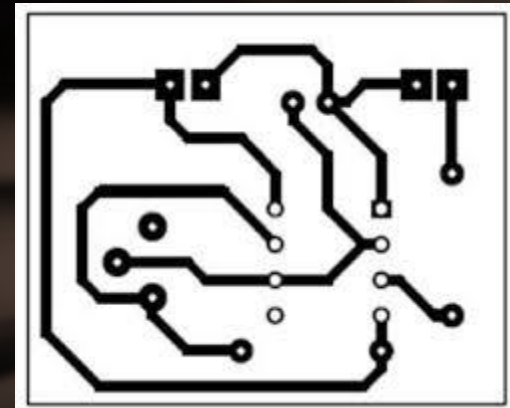


Currently....

Laser photoplotters used to create artwork

Positive and negative artwork called "photo tools"

Use 1:1 artwork to expose sensitized copper with
light or absence of light



Single sided – print and etch

Simple process – only one side – alignment not critical

Etching done with Single exposure and

“pre-sensitized” board

Photo-resist applied to bare PCB material

UV exposure “hardens” material so it can

be etched

