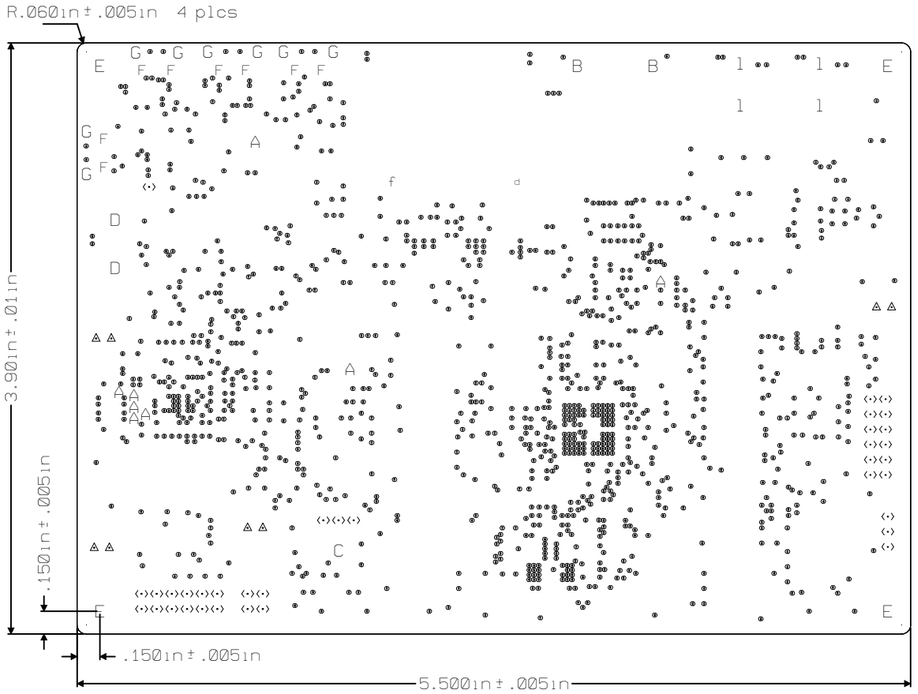


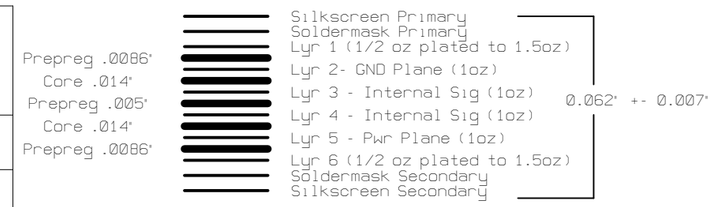
NXP LPC546xx/540xx Eval Brd 11/8/17
PCB-LPC546xx/540xx-EV Rev E
DrillDrawingThrough.gdo

Release 11/8/17

18. Remove non-functional pads on inner layers.
17. Slots defined in ContourPlated.ncd.
16. Thelving on outer layers may be added if needed for copper balance.
    Thelving shall be a minimum of 0.020" away from any feature.
    No partial squares allowed.
15. Electrical testing required.
14. Do not modify via tent busters provided on artwork soldermask layers.
13. Silkscreen primary and secondary side with non-conductive epoxy ink, color white.
    Do not modify silkscreen text width without consent from NXP.
12. Supplier shall be UL approved; mark supplier UL logo in etch, secondary side.
11. PCB must be UL rated 94V-0, mark rating in etch secondary side.
10. Minimum trace width and spacing on artwork is 0.004"
    Finished pcb Trace width & space tolerance to meet IPC-6012A unless otherwise specified.
9. This is a 6 layer pcb.
8. Minimum plating in holes 0.001".
7. Maximum acceptable bow and twist 0.007" per inch in any direction.
6. Align layers within +- 0.003" of true artwork position.
5. Align holes per drill file to a diametric tolerance of .006".
4. Overall board thickness: 0.062" +- 0.007".
3. Soldermask both sides LPI over bare copper, color blue.
2. Plating Finish: Immersion gold over 0.00015" low stress nickel.
1. Material: FR-4 high tg compatible with lead-free assembly process.

NOTES UNLESS OTHERWISE SPECIFIED:

All Holes
All Drills (unless specified) +/- 0.0030 (IN)
Finished hole size

Symbol	Diameter	Tolerance	Plated	Punched	HoleName	Quantity	Span	
•	0.0100	+0.0000 / -0.0100	Yes	No	Drill 10 Fin 4	1197	1-6	
A	0.0236	+/- 0.0031	Yes	No	Drill 0.6 mm	8	1-6	
‹·›	0.0360	+0.0040 / -0.0030	Yes	No	Drill 42 Fin 36	35	1-6	
◬	0.0410	+0.0040 / -0.0030	Yes	No	Drill 47 Fin 41	8	1-6	
B	0.1280	+0.0040 / -0.0000	Yes	No	Drill 132 Fin 128	2	1-6	
C	0.0354	+0.0031 / -0.0020	No	No	Rnd 0.9mm +/-Tol 0.05 Non-Plated	1	1-6	
D	0.0374	+0.0031 / -0.0020	No	No	Rnd 0.95mm +/-Tol 0.05 Non-Plated	2	1-6	
d	0.0433	+0.0039 / -0.0031	No	No	Drill 1.1 mm NP	1	1-6	
f	0.0591	+0.0039 / -0.0031	No	No	Drill 1.6mm NP	1	1-6	
l	0.0669	+0.0039 / -0.0012	No	No	1.7mm Non-Plated	4	1-6	
E	0.1250	+/- 0.0040	No	No	Rnd 0.125 +/-Tol 0.004 Non-Plated _1 _2	4	1-6	
F	0.0256	+/- 0.0031	Yes	No	Slot 0.65x0.85 +/-Tol 0.08	8	1-6	Slot, see note 17
G	0.0339	+/- 0.0031	Yes	No	Slot 0.86x1.6 +/-Tol 0.08	8	1-6	Slot, see note 17

6 layer board stackup