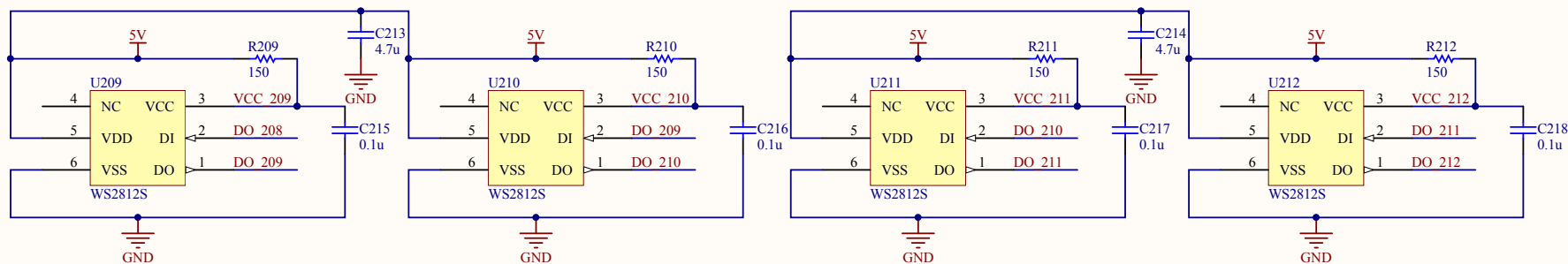
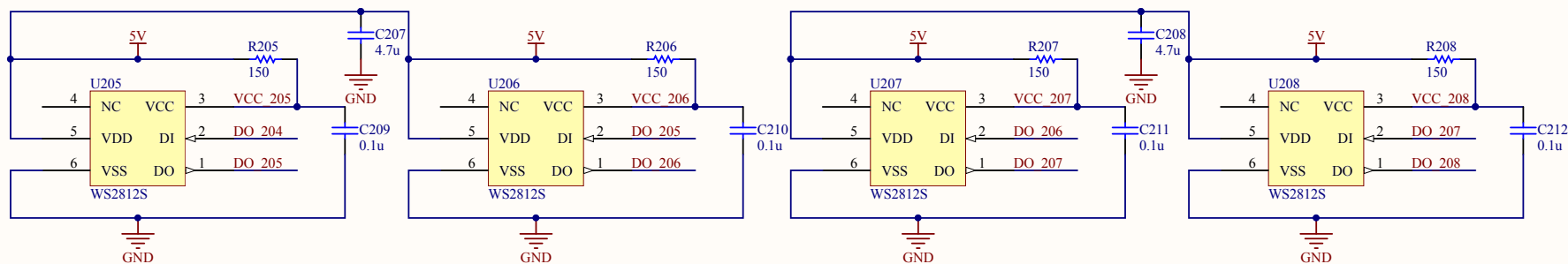
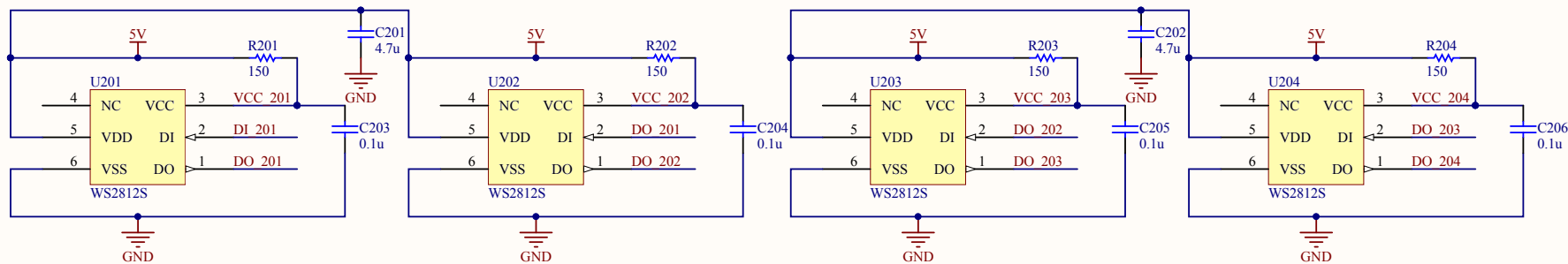


Hello

TITLE Morpheus_LED		REV PVT
DATE 12/30/2014	DRAWN BY Ben Peng	SHEET 1 OF 2



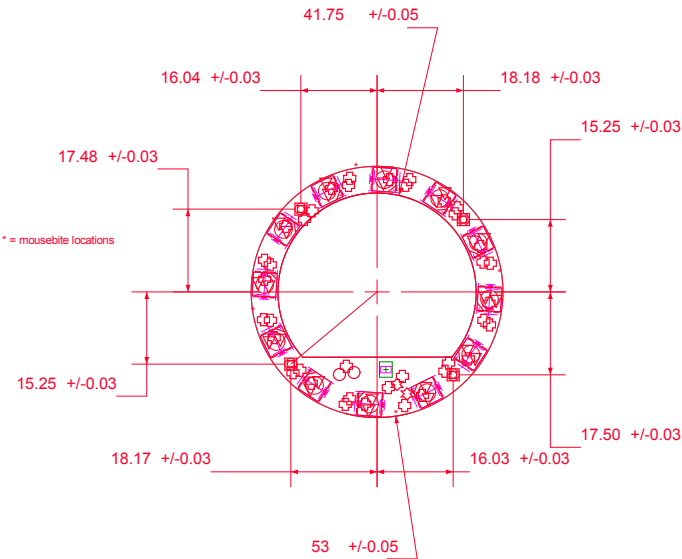
<h1>Hello</h1>		
TITLE Morpheus LED		REV PVT
DATE 12/30/2014	DRAWN BY Ben Peng	SHEET 2 OF 2

Fabrication / Assembly Notes

1. Material: Rigid FR-4, RoHS compliant: material should meet or exceed requirements of IPC 4101/126. ITEQ IT-180A Pre-approved.
2. Number of electrical layers: 4
3. Trace / Space minimum: 5mil (all layers)
4. Thickness: 0.595 mm +/- 0.1mm (finished)
5. Finish: ENIG plating on exposed copper
6. Soldermask: per IPC-SM-840, color "matte black" registration within +/- 76um of circuit layer
7. Silkscreen: use white printed silkscreen on top and bottom layers
8. All vias are tented
9. Board must be lead free process compatible.
10. mousebites shall be no larger than 0.05 mm
11. All Test/QA/QC markings to be made on back side of PCB
12. LED IC Pin #1 is noted as the triangular edge


13. IMPORTANT! Please follow the LOW temperature reflow process as specified by World-Semi Documentation

<https://www.dropbox.com/s/wmyaBr8ml1h7r3/WS2812S%28B%29%20Using%20Instructions.pdf?dl=0>  
Contact Ben Peng for more detail- ben@sayhello.com



Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Paste				
2	Top Overlay				
3	Top Solder	Solder Resist	0.010mm	3.5	
4	Component Side	Copper	0.036mm		
5	Dielectric 1	FR-4	0.152mm	4.8	
6	Ground Plane	Copper	0.036mm		
7	Dielectric 2	FR-4	0.127mm	4.8	
8	Power Plane	Copper	0.036mm		
9	Dielectric 3	FR-4	0.152mm	4.8	
10	Solder Side	Copper	0.036mm		
11	Bottom Solder	Solder Resist	0.010mm	3.5	
12	Bottom Overlay				
13	Bottom Paste				

Symbol	Hit Count	Finished Hole Size	Hole Type	Plated
⊙	2	0.200mm (7.87mil)	Round	PTH
○	38	0.300mm (11.81mil)	Round	PTH
▽	24	0.411mm (16.18mil)	Round	PTH
○	2	0.711mm (28.00mil)	Round	PTH
■	4	1.400mm (55.12mil)	Round	NPTH
	70 Total			

METRIC		DRAFTER	DATE			
DIMENSIONS ARE IN MILLIMETERS		DESIGNER	DATE			
TOLERANCES:		Ben	01/12/15	TITLE:		
0 > - < 2		PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF HELLO INC.  ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF HELLO INC IS PROHIBITED.		Morpheus LED Board		
2 > - < 10				SIZE		
10 > - < 50				DWG. NO.		
50 > - < 100				201-00006-A		
100 > - < 200				REV		
200 > -				SCALE: 1:1		
ANGLES		1.00		WEIGHT:		SHEET 1 OF 1

