

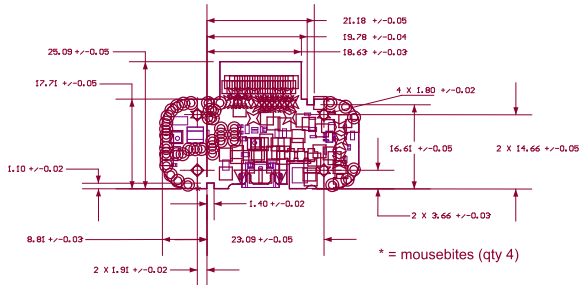
Fabrication / Assembly Notes


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: .97mm +/- 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. Silkscreens use white silkscreen on top and bottom layers. Clip on pads.  
8. RoHS: parts shall be RoHS compliant as per European Union directive 2002/95/EC  
9. Board must be lead free process compatible and able to withstand minimum of 5 cycles at 250 degrees celsius  
10. All Test/QA/QC markings, if present, to be made on back side of PCB  
11. x mousebites shall be no larger than 0.05 mm  
12. All Dimensions are after plating/finishing  
13. All components must be placed within +/- 0.10mm

Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Overlay				
2	Top Solder	Solder Resist	0.010mm	3,5	
3	Top Layer	Copper	0.036mm		
4	Dielectric1	FR-4	0.254mm	4,2	
5	GND	Copper	0.036mm		
6	Dielectric2	FR-4	0.330mm	4,2	
7	PWR	Copper	0.036mm		
8	Dielectric3	FR-4	0.254mm	4,2	
9	Bottom Layer	Copper	0.036mm		
10	Bottom Solder	Solder Resist	0.010mm	3,5	
11	Bottom Overlay				

Symbol	Hit Count	Finished Hole Size	Plated	Hole Type
◇	1	1.800mm (70.87mil)	PTH	Round
▽	2	0.600mm (23.62mil)	PTH	Slot
☆	3	1.800mm (70.87mil)	NPTH	Round
○	4	0.700mm (27.56mil)	PTH	Round
✕	31	0.305mm (12.01mil)	PTH	Round
●	40	0.400mm (15.75mil)	PTH	Round
□	73	0.200mm (7.87mil)	PTH	Round
154 Total				

Slot definitions : Rout Path Length = Calculated from tool start centre position to tool end centre position.  
Physical Length = Rout Path Length + Tool Size = Slot length as defined in the PCB layout



METRIC		DRAWER		DATE					
DIMENSIONS ARE IN MILLIMETERS TOLERANCES		DESIGNER		DATE					
0 > - < 2 0.10		dfusi / rsb/ ben		05/05/2015		TITLE:  Morpheus Bottom Board			
2 > - < 10 0.10		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.							
10 > - < 50 0.10									
50 > - < 100 0.15									
100 > - < 200 0.20									
200 > - 0.20									
ANGLES 1.00									
				SIZE		DWG. NO.		REV	
				B		201-00005-B			
				SCALE: 2:1		WEIGHT:		SHEET 1 OF 1	

