



1 2	3 4	_
2012-K Changes in respect to 2012-J DJV 26-07-2016 - changed ESD protection NUF2230 to PUSB3FR4, because of noise at cap sensor DJV 26-07-2016 - changed SHIELD plane on all layers DJV 26-07-2016 - added R20 and R21 between U3 and PUSB3FR4 DJV 26-07-2016 - added more GND vias on the edge of the GND planes	V0.8 Changes in respect to V0.7.1 CdB 25-09-2015 - Changed board shape CdB 25-09-2015 - Switched sides of PT100 and Heater for both hot-ends CdB 25-09-2015 - Added text for top and bottom CdB 25-09-2015 - Added ground planes to top and bottom CdB 25-09-2015 - Added test points to fan outputs	A
2012-J Changes in respect to 2012-I CDB 06-06-2016 - Removed copper under 0603 components  2012-I	V0.7.1 Changes in respect to V0.7 CdB 25-08-2015 - Increased via size on U3	
Changes in respect to 2012-H CDB 27-05-2016 - Connected mechanical solder pins of J4, J7, J1 and J2 to GND for stronger connections  CDB 25-05-2016 - Changed U7 to NUF2230 CDB 25-05-2016 - Removed C17 CDB 25-05-2016 - Changed D8 and D9 to ESD9L5.0ST5G CDB 25-05-2016 - Added D6 CDB 25-05-2016 - Added R19 (this resistor will or will not be placed) CDB 25-05-2016 - Added ESD_GND polygon for better ESD properties CDB 25-05-2016 - Made via's near U3 and ESD_GND bigger to lower impedance	V0.7 Changes in respect to V0.6 CdB 20-08-2015 - Changed fan and capacitive sensor connectors to SMD versions CdB 20-08-2015 - Re-did part of lay-out  V0.6 Changes in respect to V0.5 CdB 20-08-2015 - Changed board shape CdB 20-08-2015 - Added SP1 CdB 20-08-2015 - Changed top connector to Molex 353631060 CdB 20-08-2015 - Completely re-did layout and routing	В
Changes in respect to V0.9 CdB 26-02-2016 - Removed D6 and D7 CdB 26-02-2016 - Added U7, U8, C14 and C17 CdB 26-02-2016 - Added back of SP1  V0.9 Changes in respect to V0.8 CdB 08-11-2015 - Added TVS diodes D8 and D9 to 1-Wire lines	CdB 20-08-2015 - Added test points  V0.5 Changes in respect to V0.25 CdB 29-06-2015 - Changed board shape CdB 29-06-2015 - Completely re-did layout and routing CdB 29-06-2015 - Added i2c to 1 wire masters CdB 29-06-2015 - Changed JST connectors to spring loaded connectors CdB 29-06-2015 - Changed led driver to one with more outputs CdB 29-06-2015 - Added RGB leds  V0.25 Changes in respect to V0.2:	С
D.	CdB 27-01-2015 - Removed solder mask between pads in fine pitch components CdB 27-01-2015 - Removed silk screen between fine pitch components CdB 27-01-2015 - Added tin thieves to connector J3 CdB 27-01-2015 - Added revision sheet CdB 27-01-2015 - Added tooling holes  Title Printhead PCB  Size: A4 Number:* Date: 5-8-2016 Time: 10:55:25 Sheet* of * File: C;Users d,vethaak\Google Drive\040 Research & Development\Electronics\Printhead pcb\Printhead pCB 2012-K\W	
1 2	File: C:\Users\u.vetnaak\u.Googie Drive\u.040 kesearch & Development\u.blectromcs\u.printnead pcb\u.printnead PCB 2012-K\w. 3	oneshade