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Date:	26-03-2018
Program & PCB Name:	NanoPower BP8 Heater
Part Number:	102477
Revision:	1
PCB Designer:	Mogens Groth Nicolaisen

PCB Specifications:

Base Specification:	IPC-6013-D class 2+ (Class 3 regarding requirements for Annular ring breakout, Surface and copper plating, and Copper wrap plating)
Material:	Flexible Metal-Clad Dielectrics IPC-4204A Dupont Pyralux
Construction:	Two layer flex
Layer count:	2
Stackup details:	See Stack-up sheet
Tolerances:	Thickness: +/- 10%, Outline: +/- 10%, Cluster dimensions: +/- 10%

Special requirements:

<input checked="" type="checkbox"/>	Notation Top	White low-outgassing epoxy
<input checked="" type="checkbox"/>	Notation Bottom	White low-outgassing epoxy
<input type="checkbox"/>	Nickel/Hard Gold edge plating:	See Gold plated mechanical layer in files included below.
<input type="checkbox"/>	Vias in pad has to be filled and capped	All drilled vias
<input type="checkbox"/>	All Microvia has to be with copper filling.	Unless otherwise agreed
<input checked="" type="checkbox"/>	Surface finish:	Hot Oil reflow SnPb - unless otherwise agreed
<input type="checkbox"/>	Nickel/Hard gold contacts:	See Gold plated mechanical layer in files included below.
<input type="checkbox"/>	Panelization	Use Gomspace standard cluster template - Choose Cluster 1 or Cluster 2
<input checked="" type="checkbox"/>	Minimum isolation distance:	200um
<input type="checkbox"/>	Countersunk holes	All 2.5 mm holes countersunk by 90 degrees to 5.5mm opening from the bottom layer.
<input checked="" type="checkbox"/>	PCB manufacturer logo - Not allowed	unless otherwise agreed
<input checked="" type="checkbox"/>	PCB Manufacturer serial number	See specified area in mechanical layer 7
<input type="checkbox"/>	Stencil data required	Stencil data shall be based on compensated production files
<input checked="" type="checkbox"/>	Electrically test to be done.	In accordance with IPC-9552, test level B
<input type="checkbox"/>	Peelable Solder Mask:	
<input checked="" type="checkbox"/>	Impedance controlled nets	Top layer 150 ohm +/- 3%
<input checked="" type="checkbox"/>	Tolerances	Thickness: +/- 10%, Outline: +/- 10%, Cluster dimensions: +/- 10%

Files included in data package

	File Description	File Name	Format	Comments
<input checked="" type="checkbox"/>	Read-Me File	ReadMe.pdf	ACROBAT	This Document
<input checked="" type="checkbox"/>	Outline (Mechanical 4)	Flex_heater_default.GM4	Gerber	Board Outline
<input checked="" type="checkbox"/>	CID+LOGO (Mechanical 6)	Flex_heater_default.GM6	Gerber	Notation Top - white low-outgassing epoxy
<input checked="" type="checkbox"/>	Top Paste	Flex_heater_default.GTP	Gerber	Top Paste
<input checked="" type="checkbox"/>	Top cover layer	Flex_heater_default.GCT2	Gerber	Top Coverlay
<input checked="" type="checkbox"/>	Top side flex	Flex_heater_default.GTL	Gerber	L1 in stackup
<input checked="" type="checkbox"/>	Bottom side flex	Flex_heater_default.GBL	Gerber	L2 in stackup
<input checked="" type="checkbox"/>	Bottom cover layer	Flex_heater_default.GCB2	Gerber	Bottom Coverlay
<input checked="" type="checkbox"/>	Stackup details	Stack-up.pdf	ACROBAT	
<input checked="" type="checkbox"/>	ID-text (Mechanical 7)	Flex_heater_default.GM7	Gerber	Manufacturer serial no. notation Bottom - white low-outgassing epoxy
<input type="checkbox"/>				
<input type="checkbox"/>				
<input type="checkbox"/>				

All files are in millimeters and showed from top view.

Format: 4:3

Any changes/production optimizations shall be approved by GomSpace.