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Date:	1/31/2018
Program & PCB Name:	NanoPower P80 PDU400
Part Number:	100696-1
Revision:	1.0
PCB Designer:	Brian Gasberg Thomsen
<b>PCB Specifications:</b>	
Base Specification:	IPC-A-6012 cl. 3
Material:	FR4
Construction:	High Density Interconnect (1+n+1)
Layer count:	12
Stackup details:	<a href="#">See Stack-up sheet</a>

**Special processes:**

<input checked="" type="checkbox"/>	Notation Top	
<input 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 checked="" type="checkbox"/>	Vias in pad has to be filled and capped	All drilled vias
<input checked="" type="checkbox"/>	All Microvia has to be with copper filling.	Unless otherwise agreed
<input checked="" type="checkbox"/>	Surface finish:	HASL
<input checked="" type="checkbox"/>	Nickel/Hard gold contacts:	See Gold plated mechanical layer in files included below.
<input checked="" type="checkbox"/>	Panelization	Use Gomspace standard cluster template - Cluster 1
<input type="checkbox"/>	Minimum isolation distance:	100um
<input type="checkbox"/>	Countersunk holes	All 2.5 mm holes countersunk by 90 degrees to 5.5mm opening from the
<input checked="" type="checkbox"/>	PCB manufacturer logo - <b>Not allowed</b>	unless otherwise agreed
<input checked="" type="checkbox"/>	Stencil data required	Stencil data must be based on compensated production files
<input checked="" type="checkbox"/>	Electrically test to be done.	
<input type="checkbox"/>	Peelable Solder Mask:	
<input type="checkbox"/>	Impedance controlled nets	

**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"/>	Top Hard Gold	P80-PMU.GM6	GERBER	Hard Gold
<input checked="" type="checkbox"/>	Bottom Hard Gold	P80-PMU.GM7	GERBER	Hard Gold
<input checked="" type="checkbox"/>	mechanical 5	P80-PMU.GM5	GERBER	Notation top
<input checked="" type="checkbox"/>	Top Paste	P80-PMU.GTP	GERBER	Top Pastemask
<input checked="" type="checkbox"/>	Outline (Mechanical 4)	P80-PMU.GM4	GERBER	Board Outline
<input checked="" type="checkbox"/>	Top Layer	P80-PMU.GTL	GERBER	L1 in stackup via in pad only
<input checked="" type="checkbox"/>	mid1	P80-PMU.G1	GERBER	
<input checked="" type="checkbox"/>	mid2	P80-PMU.G2	GERBER	
<input checked="" type="checkbox"/>	mid3	P80-PMU.G3	GERBER	
<input checked="" type="checkbox"/>	mid4	P80-PMU.G4	GERBER	
<input checked="" type="checkbox"/>	mid5	P80-PMU.G5	GERBER	
<input checked="" type="checkbox"/>	mid6	P80-PMU.G6	GERBER	
<input checked="" type="checkbox"/>	mid7	P80-PMU.G7	GERBER	
<input checked="" type="checkbox"/>	mid8	P80-PMU.G8	GERBER	
<input checked="" type="checkbox"/>	mid9	P80-PMU.G7	GERBER	
<input checked="" type="checkbox"/>	mid10	P80-PMU.G8	GERBER	
<input checked="" type="checkbox"/>	Bottom	P80-PMU.GBL	GERBER	L12 in stackup via in pad only
<input checked="" type="checkbox"/>	Bottom Paste	P80-PMU.GBP	GERBER	Bottom Pastemask
<input checked="" type="checkbox"/>	NC Drill Report	PDU-400.DRR	ASCII	NC Drill Report File
<input checked="" type="checkbox"/>	NC Drill Plated Holes	PDU-400-RoundHoles-Plated.TXT	ASCII	
<input checked="" type="checkbox"/>	NC Drill Non Plated Holes	PDU-400-RoundHoles-NonPlated.TXT	ASCII	
<input checked="" type="checkbox"/>	NC Drill Plated Slots	PDU-400-SlotHoles-Plated.TXT	ASCII	
<input checked="" type="checkbox"/>	Laser drill, Top Layer to Mid-Layer 1	PDU-400-RoundHoles-Plated.TX1	ASCII	
<input checked="" type="checkbox"/>	NC Drill Plated, Mid-Layer 1 to Mid-Layer 10	PDU-400-RoundHoles-Plated.TX2	ASCII	
<input checked="" type="checkbox"/>	Laser drill, Mid-Layer 10 to Bottom Layer	PDU-400-RoundHoles-Plated.TX3	ASCII	
<input checked="" type="checkbox"/>	ODB++	PDU-400_ODB.zip	ODB	Netlist etc.
<input checked="" type="checkbox"/>	Stackup details	Stack-up.pdf	ACROBAT	
<input checked="" type="checkbox"/>	Cluster spec	Cluster-1.pdf	ACROBAT	

All files are in millimeters and showed from top view.

Format: 4:4

Any changes/production optimizations must be approved by GomSpace.