PCB Specification Document

Project Details

Specification name	GS-PCB-SPEC-0607
Release	1
Applicable projects	nanopower-p31u-12
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Release date	September 6, 2017



Specifications

	Specification	Remarks
Base Specification	ESA ECSS-Q-ST-70-11-C	
Construction	Multi-layer	
Material	Glass/polyimide (GI) IPC-4101/40 Arlon 85N	
Surface finish	Hot oil SnPb reflow	
Layer count	6	
Min. Track/space/ hole	200um / 150um / 300um	
Dimensions	92.92 mm x 89.28 mm	
Packaging	Individually in ESD bag. 10 pcs. in bigger bag	MIL-P-116G IA-8

Panelization

	Specification	Remarks
Delivery in panel	✓	
Panel dimensions	208.84 mmm x 205.56 mm	
Array count X x Y	2x2	

File List

Layer	File	File Extension
Stencil top	nanopower-p31u-12	GTP
Notation top	nanopower-p31u-12	GM7
Copper top	nanopower-p31u-12	GTL
Inner 1	nanopower-p31u-12	G1
Inner 2	nanopower-p31u-12	G2
Inner 3	nanopower-p31u-12	G3
Inner 4	nanopower-p31u-12	G4
Copper bottom	nanopower-p31u-12	GBL
Notation bottom	N/A	
Stencil bottom	nanopower-p31u-12	GBP
Board outline	nanopower-p31u-12	GM10
Drill through	nanopower-p31u-12-RoundHoles	TXT
Drill blind top	N/A	TX1
Drill blind bottom	N/A	TX2
Drill SlotHoles	nanopower-p31u-12-SlotHoles	TXT
Panel drawing	nanopower-p31u-12-panelization	PDF

Special processes

	Check	Remarks
Notation top	✓	White, low-outgassing epoxy
Notation bottom		
Countersunk holes	✓	2 holes. Final diameter 5.0mm. Tip angle of bit: 90. Plated. Marked in green circles below
Electrical test	✓	
Impedance control		
Manufacturer logo allowed	~	

Build-up

	Thickness
Copper outer layers (incl. plating)	70 um
Copper inner layers	70 um
Thickness (over bare substrate)	1.6 mm (free build)
Stackup	5989_misc_polar.pdf

Countersunk holes:

