

RD_RD_KDS_SPEC_0055

MANUFACTURING SPECIFICATION FOR A XCMS PSU vA0 PCB

TRANSNET ENGINEERING
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ASSEMBLY SPECIFICATION

Component Placement	Top and Bottom
Component Termination	Through Hole, Surface mount
Comments/Special Instructions	-

Bidder's Signature to Confirm Specification Compliance:

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PCB SPECIFICATION

PCB Name	XCMS PSU
Version	A0
PCB Dimensions	124mm x 41mm
PCB Base Material	FR4
Number of Layers	2
Layer Stack Up Summary	See Figure 1
Nominal PCB Thickness	1.6 mm
Solder Mask	Top and Bottom
Silkscreen/Legend/Identification	Top and Bottom
PCB Finishing	ENIG (Electroless Nickel Gold)
Drill Holes Summary	See Figure 2
Min Track Clearance	0.2mm
Min Track Width	0.2mm
Min Annular Ring	0.2mm

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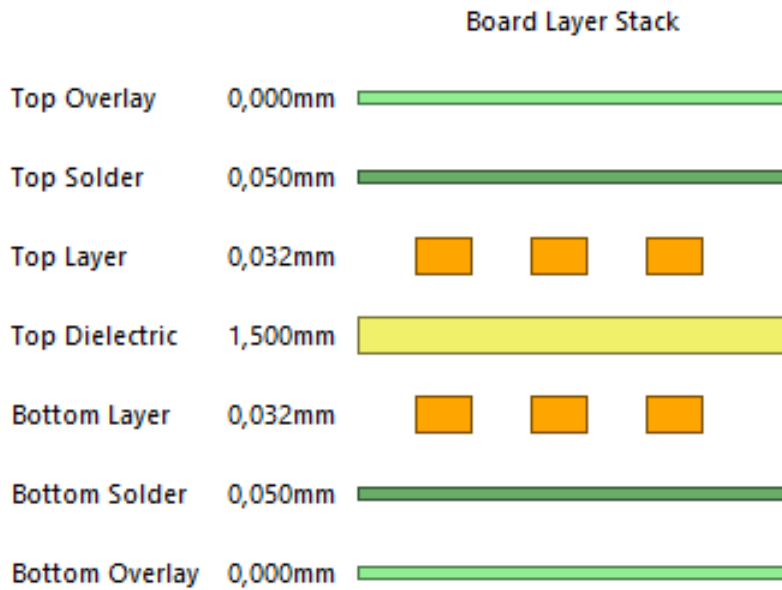


Figure 1: PCB Layer Stack Up Summary

Count	Hole size	Plated	Drill layer pair
13	1.3mm	PTH	Top – Bottom Layer
15	0.2mm	PTH	Top – Bottom Layer

Figure 2: PCB Drill Holes Summary

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COMPONENT SPECIFICATION

#	Quantity	Description
1	1	Synqor RQ200PFQTx10SRS-G, EMI Filter
2	1	Synqor RQ90240QTC05NRS-G, Isolated DC/DC Converter, 24V, 100W
3	4	TDK C5750X7T2E225M250KE, 2.2uF, Ceramic Multilayer Capacitor, 250 V dc, +125°C, X8R Dielectric, 2220, ±20%
4	2	Murata GRM32ER71H106MA12L, 10uF Ceramic Multilayer Capacitor, 50 V dc, +125°C, X7R Dielectric, 1210, ±20%
5	1	STMicroelectronics STPSC12065GY, Schottky Diodes, TO-262 (D2PAK)
6	1	STMicroelectronics STPS20200CG, Schottky Diodes, TO-262 (D2PAK)
7	1	STMicroelectronics SMA6J24A, Uni-Directional TVS Diode, 600W, 2-Pin DO-214AC (SMA)
8	2	Littelfuse 65800001109, Fuseholder 5x20mm
9	1	Bourns 2036-20-SM-RP, Gas Discharge Tubes, 200V, 20kA
10	1	Harting 14110613001000, Pluggable Terminal Blocks, 6P, 160V, 6A, 2.54 mm pitch, socket
11	1	Harting 14310613101000, Pluggable Terminal Blocks, 6P, 160V, 6A, 2.54 mm pitch, plug
12	1	Harting 14110813001000, Pluggable Terminal Blocks, 8P, 160V, 6A, 2.54 mm pitch, socket
13	1	Harting 14310813101000, Pluggable Terminal Blocks, 8P, 160V, 6A, 2.54 mm pitch, plug
14	1	Cincon M-C448, Quarter Brick Heat Sink
15	1	Hammond Manufacturing 1590JGASKET, Enclosure Gasket
16	1	Hammond Manufacturing 1590JFBK, Aluminum Enclosure, Wall-Mounting, 145x95x49mm
17	1	Harting 09675096715, D-Sub, 9P, Solder cup termination, Female
18	1	Harting 09675097615, D-Sub, 9P, Solder cup termination, Male

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