

RD_RD_KDS_SPEC_0083

MANUFACTURING SPECIFICATION FOR A XCMS DIGITAL INPUT

TRANSNET ENGINEERING
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ASSEMBLY SPECIFICATION

Component Placement	Top and Bottom
Component Termination	Through Hole, Surface mount
Comments/Special Instructions	Hammond enclosure must be supplied separately.

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PCB SPECIFICATION

PCB Name	XCMS Digital Input
Version	A1
PCB Dimensions	128.5mm x 78.5mm
PCB Base Material	FR4
Number of Layers	4
Layer Stack Up Summary	See Figure 1
Nominal PCB Thickness	1.6 mm
Solder Mask	Top and Bottom (Green)
Silkscreen/Legend/Identification	Top and Bottom (White)
PCB Finishing	ENIG (Electroless Nickel Gold)
Drill Holes Summary	See Figure 2
Min Track Clearance	0.14mm
Min Track Width	0.2mm
Min Annular Ring	0.2mm

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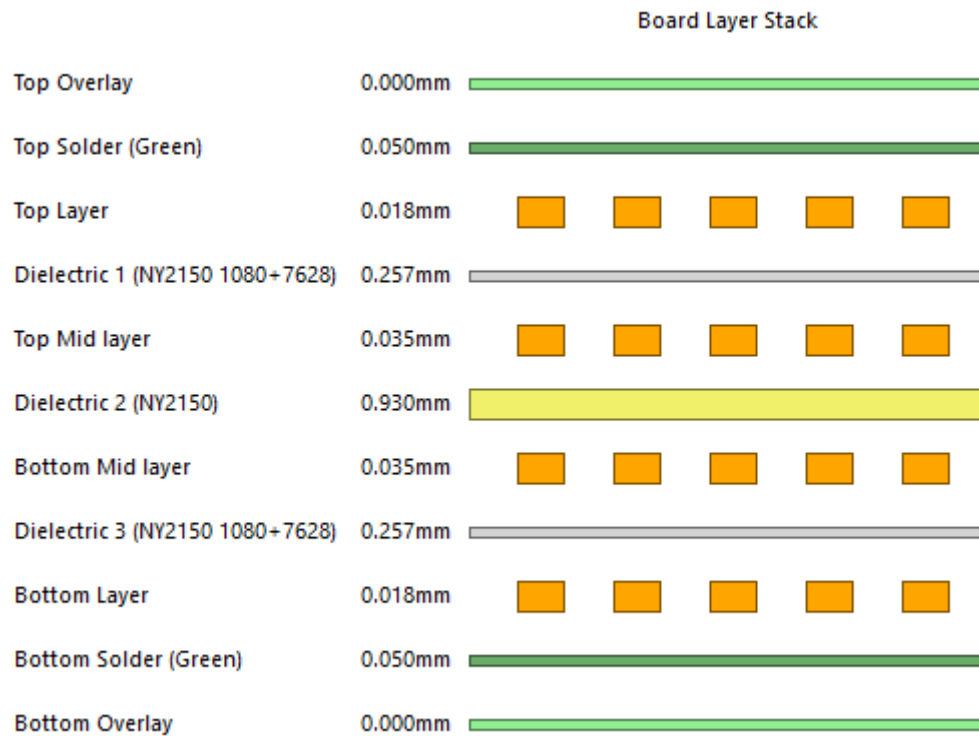


Figure 1: PCB Layer Stack Up Summary

Count	Hole size	Plated	Drill layer pair
174	0.3mm	PTH	Top – Bottom Layer
10	0.8mm	PTH	Top – Bottom Layer
12	0.9mm	PTH	Top – Bottom Layer
37	1.1mm	PTH	Top – Bottom Layer
6	3.0mm	PTH	Top – Bottom Layer
4	3.2mm	PTH	Top – Bottom Layer

Figure 2: PCB Drill Holes Summary

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COMPONENT SPECIFICATION

#	Quantity	Description
1	1	Murata GCM32DC72A475ME02L
2	2	Murata GCJ32DR72A225KA01L
3	2	Murata GRM188R71H223KA01D
4	2	Murata GRM1885C2A220JA01D
5	41	Murata GRM155R71H104ME14D
6	1	Murata GRM188C81C106MA73D
7	12	Murata GCJ188R71H104KA12D
8	10	Murata GCM155C71A105KE38D
9	1	Murata GRM32ED71A476KE15L
10	2	Murata GRM155Z71A225KE44D
11	2	Murata GJM1555C1H200FB01D
12	1	Hammond Manufacturing 1590JFBK
13	1	Hammond Manufacturing 1590JGASKET
14	4	M3 Split Lock Washer, Stainless steel
15	1	Samtec FTSH-110-01-L-DV-007-K
16	1	Harting 09675157675
17	1	Harting 09675096775
18	1	Harting 09675097675
19	4	M3 X 8mm Socket Head Cap Screws, Stainless steel
20	4	M3 Washer, Stainless steel
21	1	Vishay VSSB310-M3/52T
22	1	Vishay SMBJ24D-M3/H
23	1	Bourns CDSOT23-SM712
24	24	Vishay MMSZ5250C-E3-08
25	12	Vishay 78-GSD2004W-E3-08
26	3	STMicroelectronics USBLC6-4SC6Y
27	4	Lumex SSL-LX3059IGW
28	1	Bourns MF-SM075/60
29	1	Bourns SRR3818A-4R7Y
30	1	RECOM Power R-78E5.0-1.0
31	1	TRACO Power TEC 2-2410WI
32	12	Silicon Labs SI8710AC-B-IS
33	12	ON Semiconductor MMBT2222ALT1G
34	2	Vishay CRCW060310R0FK
35	24	Vishay CRCW0805100KFK
36	42	Vishay CRCW040210K0FK
37	5	Vishay CRCW0402330RFK

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38	1	Texas Instruments ISO1042BDWR
39	1	STMicroelectronics HTS221
40	1	STMicroelectronics IIS328DQ
41	1	STMicroelectronics STM32F746VGT6
42	1	Diodes Inc FL2500316Z

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