XMM Optical Monitor

MULLARD SPACE SCIENCE LABORATORY
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MSSL ^{XMM}OM QM ICU-MEM Design Document

DOCUMENT: XMM-OM/MSSL/DD/0002.01

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Author:	N R Bray	Date:	3-Sep-96
OM Project Office		Date:	
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Issue	Date	Changes
1	11-Sep-96	

Machine File-System Directory:	\\mssli7\data\projects\XMM-OM/MSSL/DD/0002.01
Document File Name:	QM ICU-MEM.MACWord4.0.mcw
Application:	MS Word 7
Included files:	
Print Date (this):	11-Sep-96 @ 13:14
Printer:	Postscript

1. Schematics

Drawing Number: 5229/050 Issue 2

Hierarchical list of sheets:

MEMTOP 1 5-20-1996_9:15

2. PCB Manufacturing and Board Assembly and Parts List

Drawing Number:	5229/050-5 Issue 2 8-Jun-96	drill plot
	5229/050-6 Issue 3 3-Sep-96	assembly drawing and parts list

3. Bill of Materials

Database printout for ICU-MEM 3-Sep-96

4. Construction Operations

4.1 Links

none

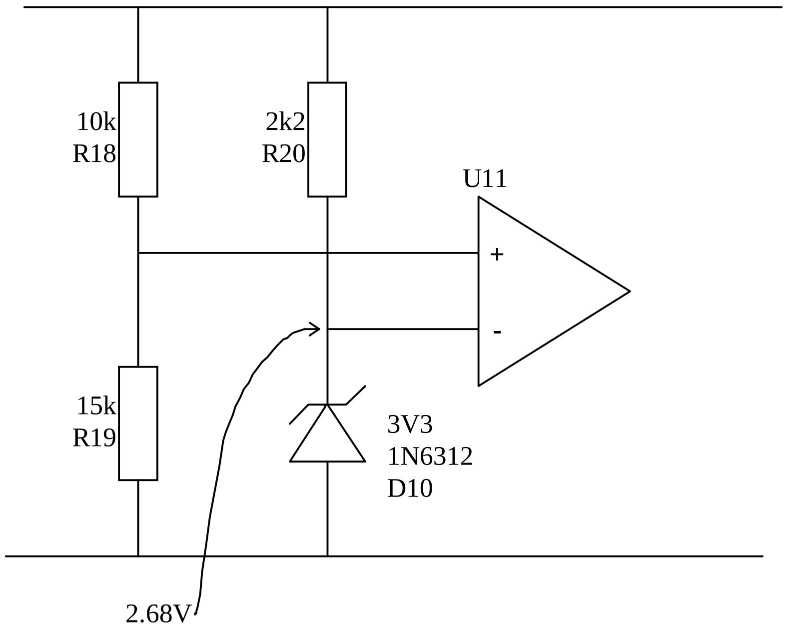
4.2 Select on Test Items

none

4.3 Modifications

IN PLACE OF	FIT
D10	1N6312 (Reversed Polarity)
D5, D6, D7, D8, D9	Wire Links
R18	10k
R19	15k
R20	SOT, Provide 1k8 and 2k2 with board
R22	270k

Schematic:



4.3.1 Add Wires

4.3.2 Track Cuts

none

5. Updated Schematic

6. Layout Instructions

6.1 Input to Mentor

Files are generated from a Viewlogic conversion utility to mentor format.

Get files using <http:> or <ftp:>.

Make the following further tweaks to the netsfile before starting layout:

All CK06-100 100n -> CK05-50 56n

6.2 Notes

1. TP1 should be placed in clear a board area in the middle of the card.
2. VDEM is a power signal and requires large tracks.
3. VRAM and GND are all power planes.
   GND should be on its own internal layer. VDD and VRAM should share an other internal layer
4. Component heights are limited:
   ABOVE to 7.2 mm
   BELOW to 4.7 mm
5. VDR is a power signal and requires large tracks.
6.

6.3 Feedback from Mentor

The final netslist files after completion of the layout should be saved here:

ftp://128.40.70.7/Public/Mentor/PROC as "QM_Mentor_Net" and "QM_Mentor_Comp"

7. Layout Changes

All CK06-100 100n -> CK05-50 56n

8. Files

Viewlogic QM files dated up to 21-May-96 in

\\MSSLI7\DOSData\Designs\QMICU\MEM

9. Design Description

10. Setup/Testing