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| Rev | Description | Date | Approved |
|-----|--------------|---------|----------|
| 00 | Released | 7/7/99 | |
| 01 | Per ECO #197 | 8/30/99 | |

Dataports A,B,C,D
313-0201.SCH



VMON & IMON Input Select 2 of 2
313-0801.SCH



Dataports E,F,G,H
313-0301.SCH



VMON & IMON RMS Detectors
313-0901.SCH



Dataports I,J,K,L
313-0401.SCH



Amp Monitor Mix 1 of 2
313-1001.SCH



Dataports M,N,O
313-0501.SCH



Amp Monitor Mix 2 of 2
313-1101.SCH



Standby & Bypass Relays and Power Input
313-0601.SCH



Center Channel Bypass
313-1201.SCH



VMON & IMON Input Select 1 of 2
313-0701.SCH



Analog Switch & Digital Pot Control
313-1301.SCH



UNLESS OTHERWISE NOTED:

- 1.0 All resistor values are expressed in Ohms.
- 1.1 All resistors are 1/4 Watt types with their tolerance and material coded into their value.

| VALUE | 1%, Metal Film | 5%, Carbon Film |
|------------------------|----------------|-----------------|
| 0 Ohm to 0.99 Ohms | 0R to 0R976 | 0R to 0R91 |
| 1 Ohm to 99 Ohms | 1R00 to 97R6 | 1R0 to 91R |
| 100 Ohms to 999 Ohms | 100R0 to 976R0 | 100R to 910R |
| 1k Ohm to 9k9 Ohms | 1k00 to 9k76 | 1k0 to 9k1 |
| 10k Ohms to 99k Ohms | 10k0 to 97k6 | 10k to 91k |
| 100k Ohms to 999k Ohms | 100k0 to 976k0 | 100k to 910k |
| 1M Ohm to 99M Ohms | 1M00 to 97M6 | 1M0 to 91M |

- 2. All resistor networks are 2%, 1/8 Watt types with their values expressed in Ohms.
- 3.0 All capacitor values are expressed in Farads
- 3.1 All 100n bypass capacitors are 20%, 50 Volt, Z5U, Ceramic Monolythic types.
Their Reference Designators are coded as CVXXX where XXX is the associated IC number and V is the associated power supply voltage.
Values for V are; 9 = +5, 8 = -5, 7 = +15, 6 = -15, 5 = +12, 4 = -12.
- 3.2 All non-electrolytic capacitors are 10%, 50 Volt, X7R, Ceramic Monolythic types.
- 3.3 All NPO capacitors are 5%, 50 Volt, Ceramic Monolythic types.
- 3.4 All MY capacitors are 5%, 50 Volt, Metalized Polyester types.
- 3.5 All PP capacitors are 5%, 50 Volt, Metalized Polypropylene types.
- 3.6 All PC capacitors are 5%, 50 Volt, Metalized Polycarbonate types.
- 3.7 All electrolytic capacitors are 20%, 16 Volt (or higher), Aluminum Electrolyte types.
- 3.8 All TA capacitors are 20%, 16 Volt (or higher), Tantalum Electrolyte types.
- 4. For complete information on any component please see the associated bill of materials.
- 5. All net names preceded by a / are active low signals.
- 6. IC power supply connections are called out in a table at the bottom of the page(s) the IC appears on.
Only non-standard or unique power supply connections will be shown on the schematic sheet.
- 7. V+ = +12, V- = -12, VCC = +5, VEE = -5

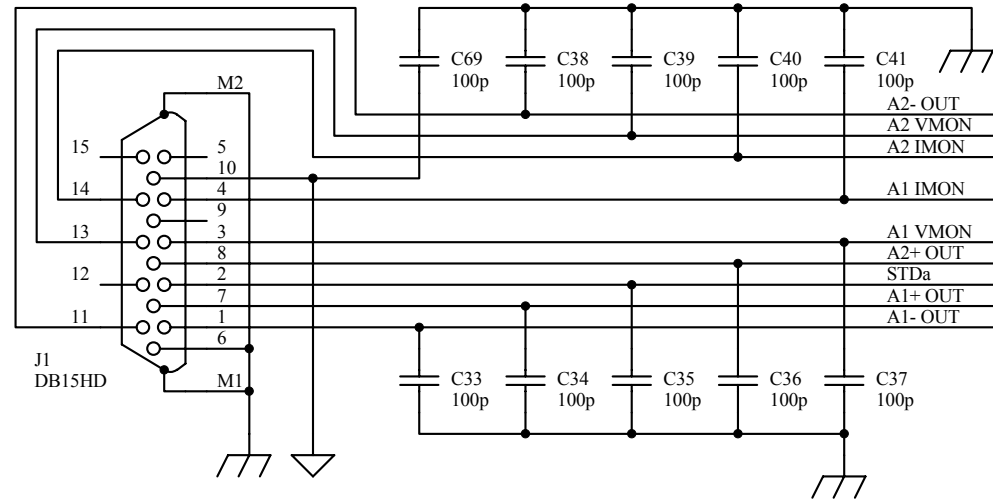
THAT Corporation 45 Sumner Street
Milford, MA
508-478-9200

| | | |
|-------------|-------|--|
| Checked: | Date: | Title: QSC Digital Cinema Monitor DCM-2/DCM-3 Monitor Board |
| Proj. Eng.: | Date: | |
| Chf. Eng.: | Date: | Size: B Drawing Number: 330313 Revision: 01 |
| Production: | Date: | Date: 19-Sep-2002 Drawn by: CMH Sheet 1 of 13 File: F:\DM\SH\SH004051gp\CUR China REV\313-01011.DDB - Documents\313-0 |

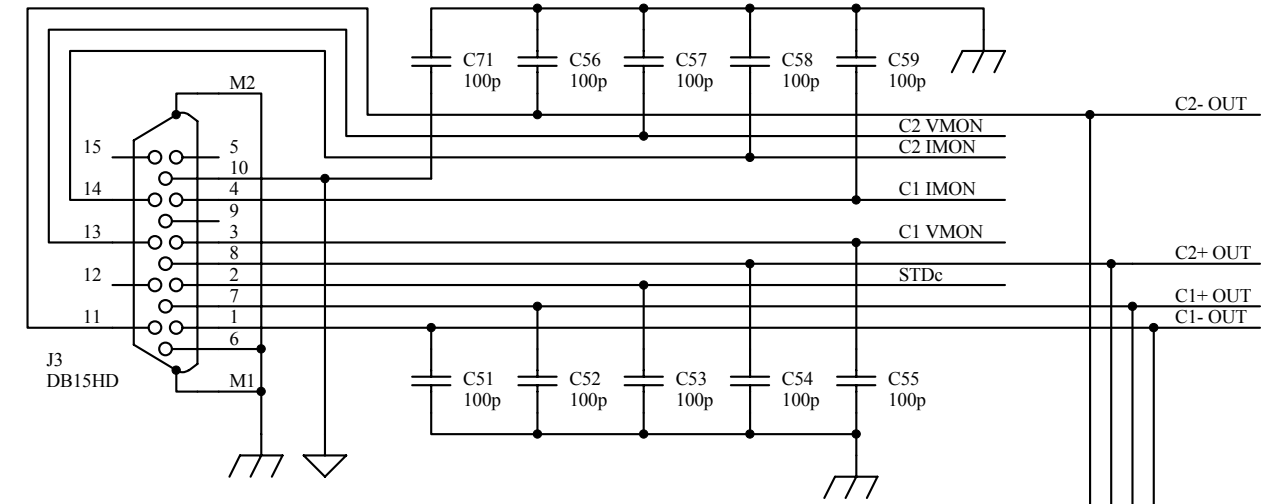
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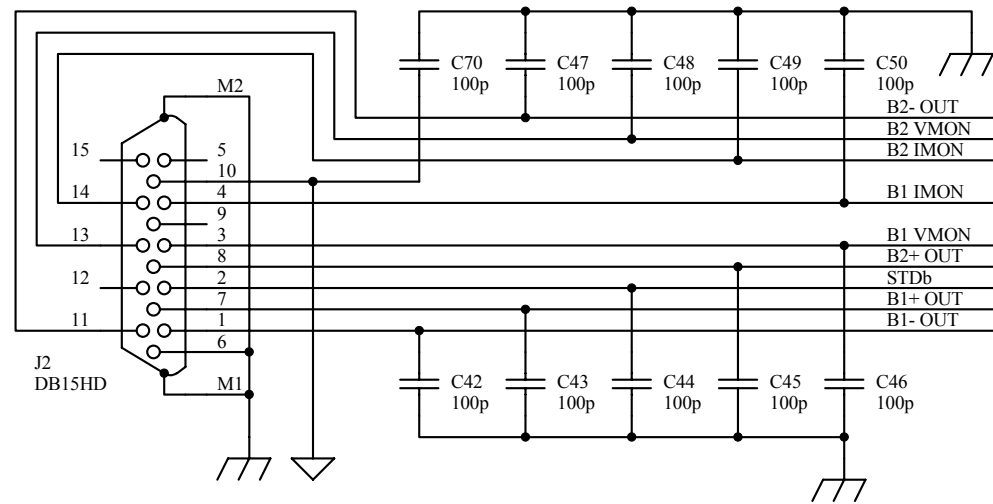
DATAPORT A



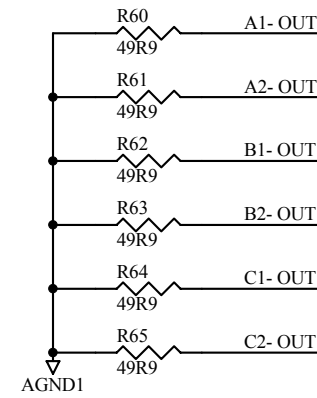
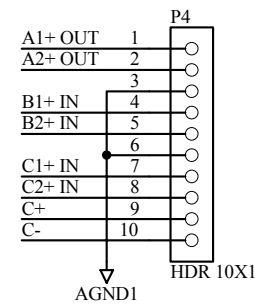
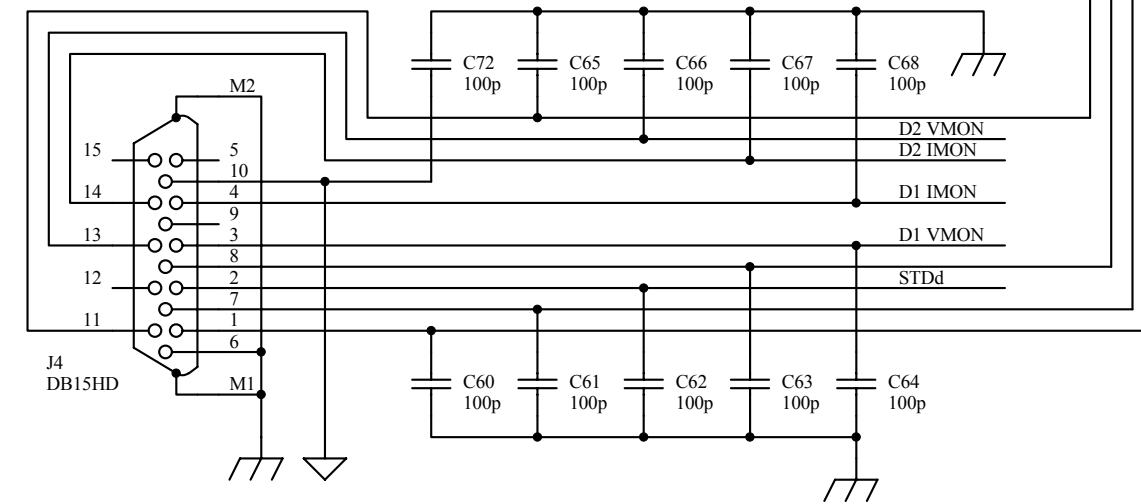
DATAPORT C



DATAPORT B



DATAPORT D



THAT Corporation 45 Sumner Street
 Milford, MA
 508-478-9200

Title: **DCM-2/DCM-3 Rear Monitor**
 Dataports A,B,C,D

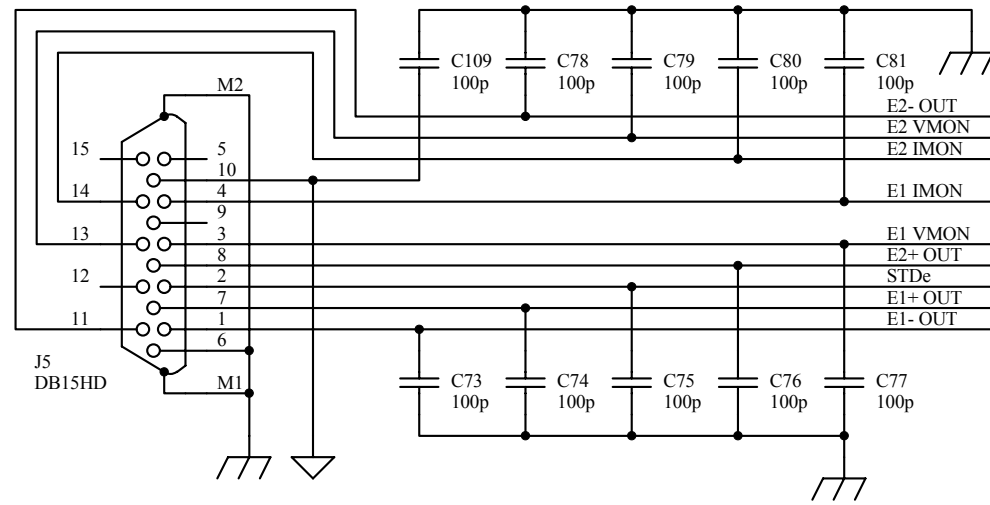
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| Chf. Eng.: | Date: |
| Production: | Date: |

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|---|-------------------------------|---------------------|
| Size: B | Drawing Number: 330313 | Revision: 01 |
| Date: 19-Sep-2002 | Drawn by: CMH | Sheet 2 of 13 |
| File: F:\DM\SH\SH004051gp\CUR China REV\313-01011.DDB - Documents\313-0 | | |

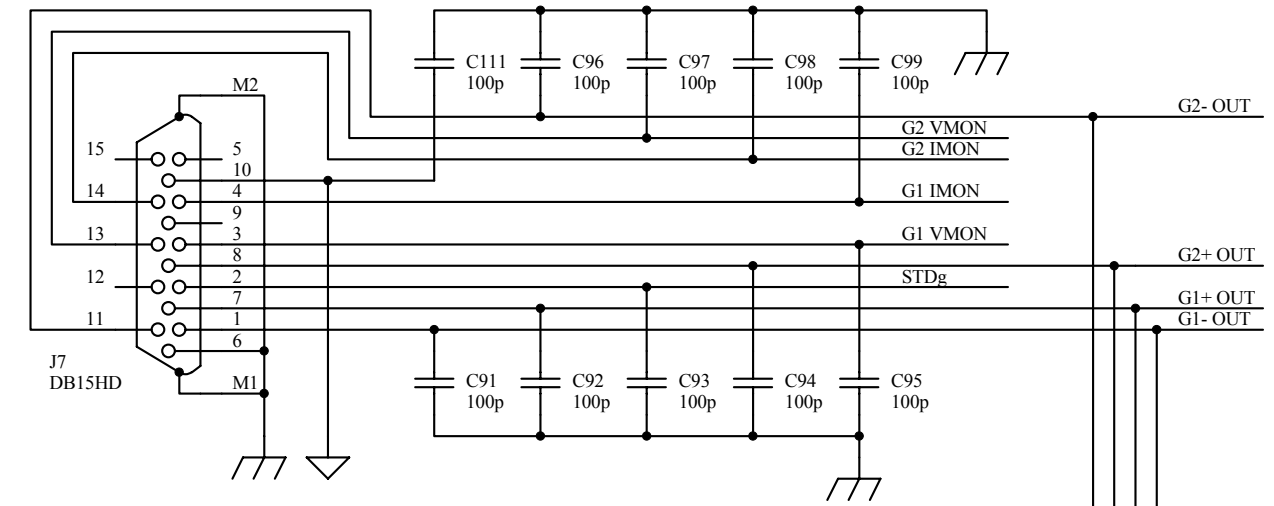
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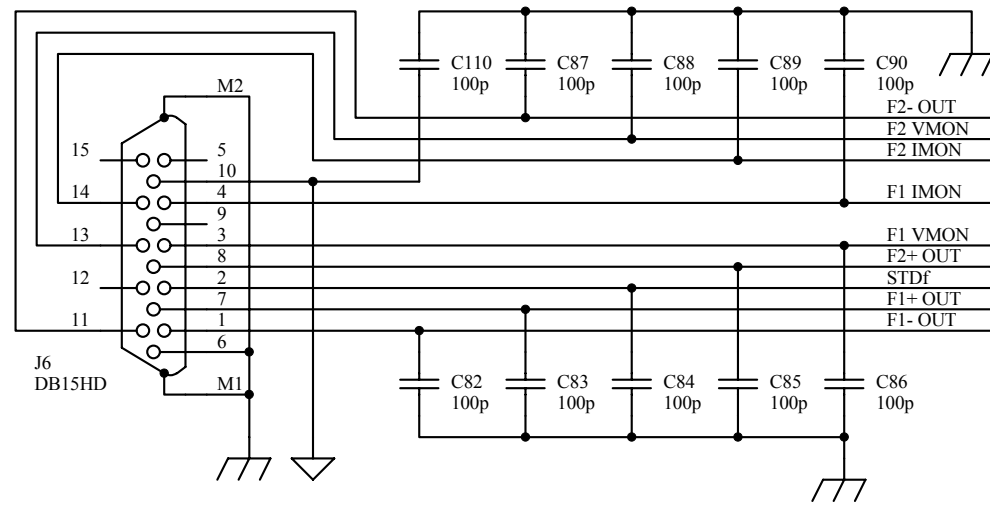
DATAPOINT E



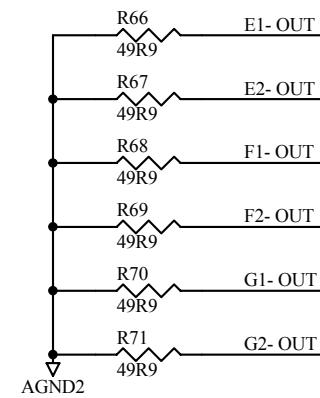
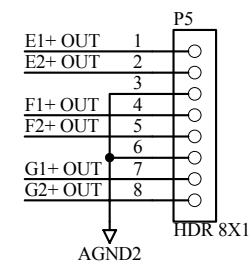
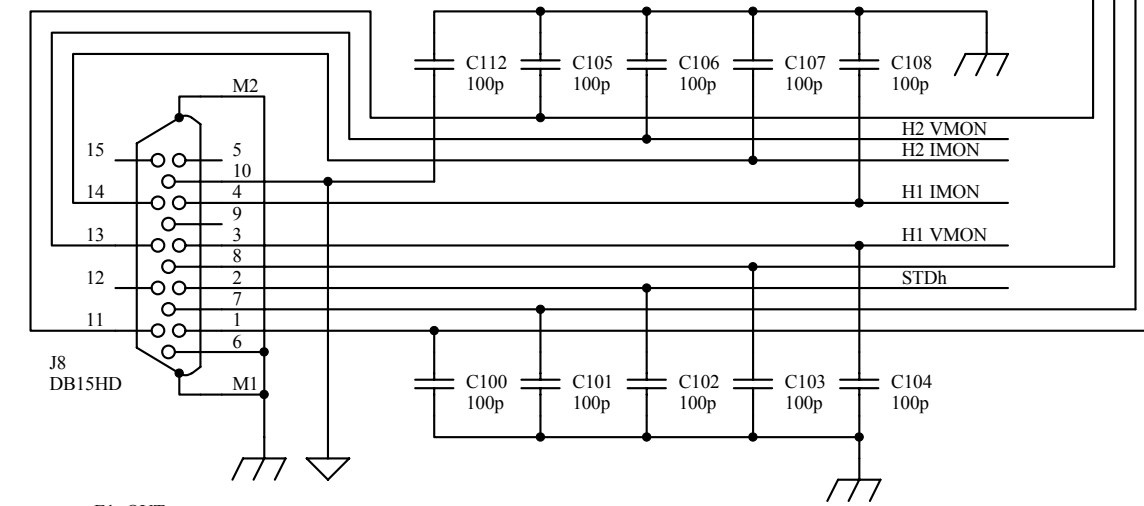
DATAPOINT G
(SUBS 1 & 2)



DATAPOINT F



DATAPOINT H
(SUBS 3 & 4)



THAT Corporation 45 Sumner Street
Milford, MA 508-478-9200

Title: **DCM-2/DCM-3 Monitor Board**
Dataports E,F,G,H

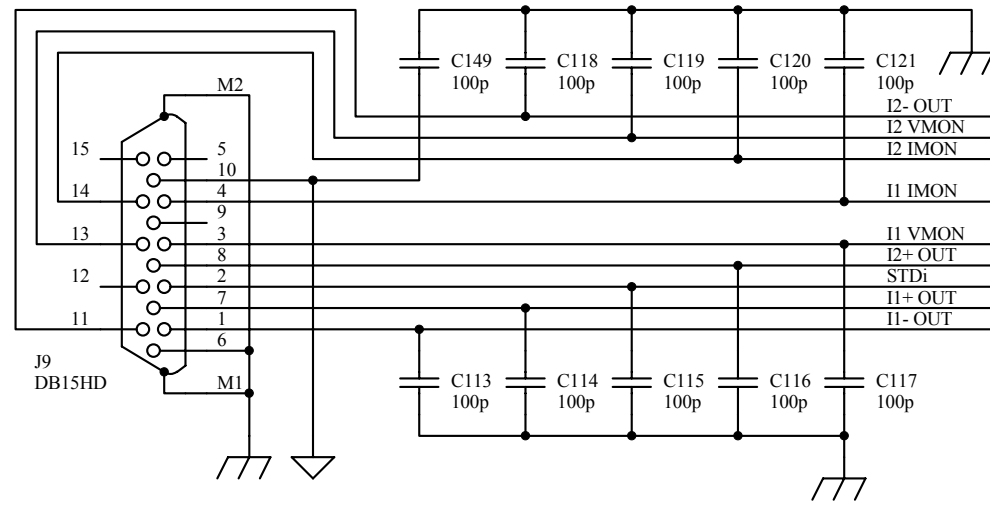
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| Chf. Eng.: | Date: |
| Production: | Date: |

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| Size: B | Drawing Number: 330313 | Revision: 01 |
| Date: 19-Sep-2002 | Drawn by: CMH | Sheet 3 of 13 |
| File: F:\DM\SH\SH004051gp\CUR China REV\313-01011.DDB - Documents\313-0 | | |

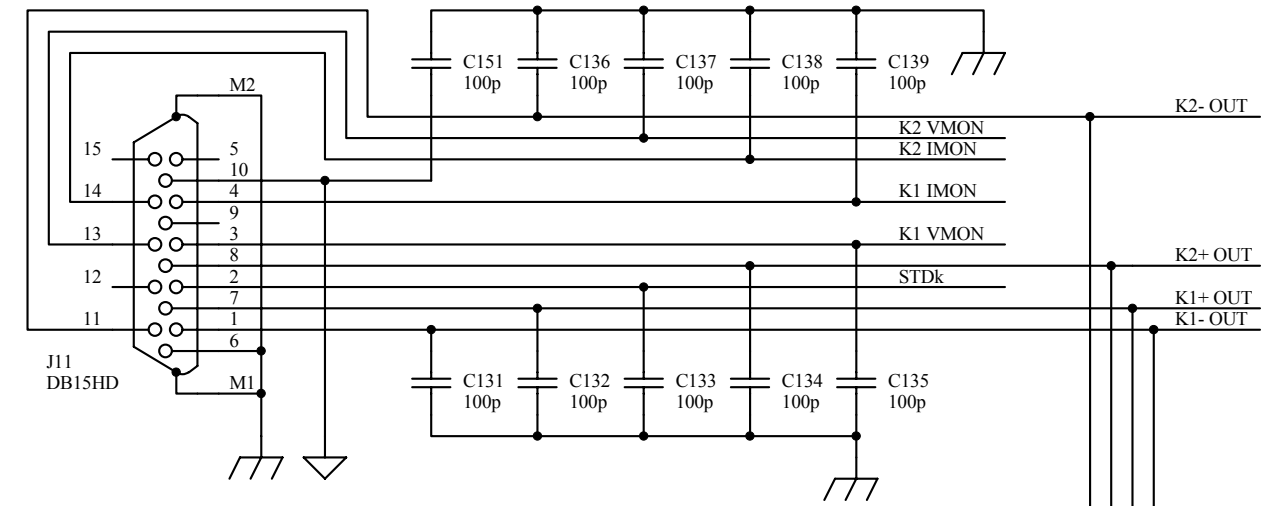
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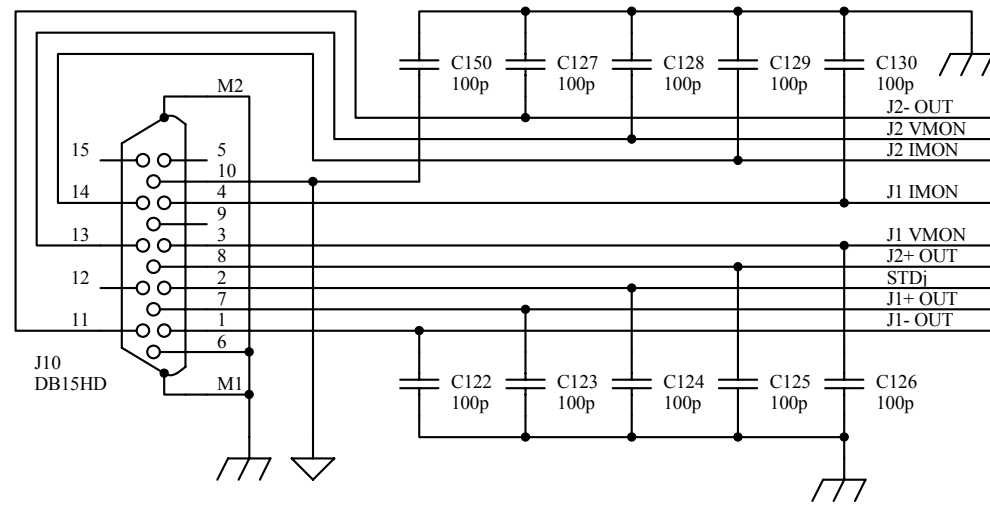
DATAPOINT I



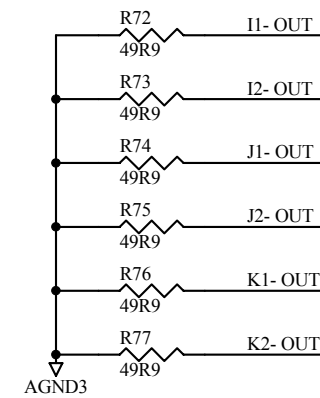
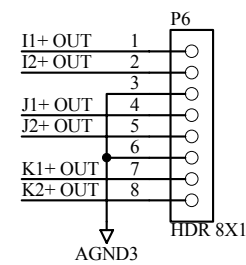
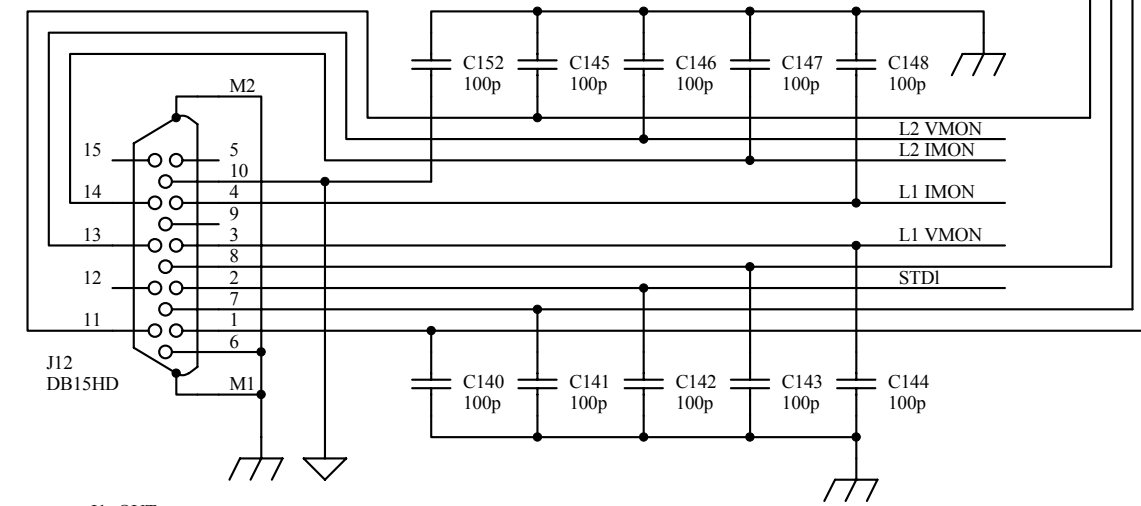
DATAPOINT K



DATAPOINT J



DATAPOINT L



DCM-3 only

THAT Corporation 45 Sumner Street
Milford, MA
508-478-9200

Title: **DCM-2/DCM-3 Monitor Board**
Dataports I,J,K,L

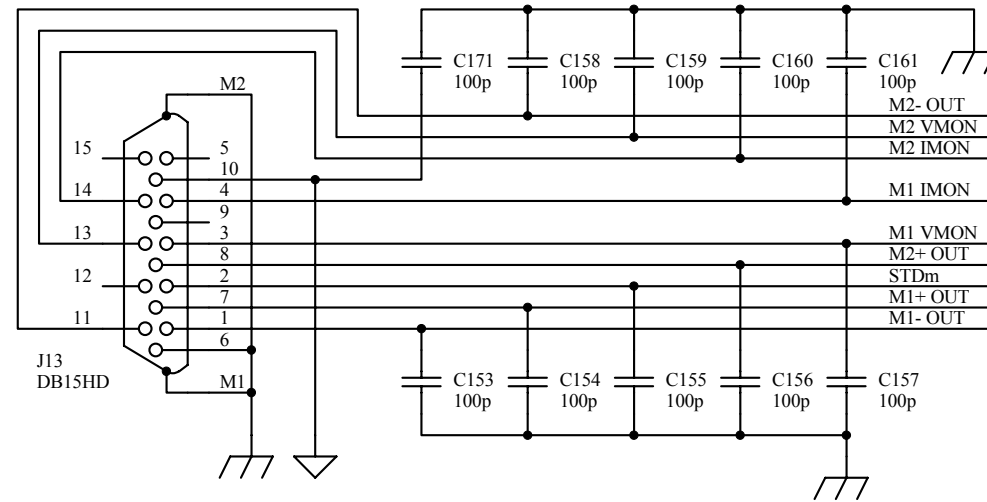
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| Proj. Eng.: | Date: |
| Chf. Eng.: | Date: |
| Production: | Date: |

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|---|-------------------------------|---------------------|
| Size: B | Drawing Number: 330313 | Revision: 01 |
| Date: 19-Sep-2002 | Drawn by: CMH | Sheet 4 of 13 |
| File: F:\DM\SH\SH004051gp\CUR China REV\313-01011.DDB - Documents\313-0 | | |

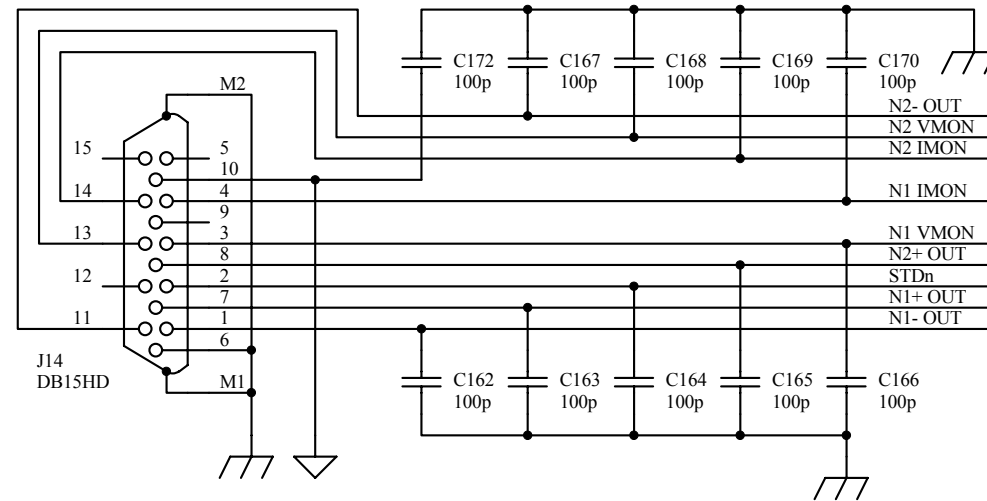
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|-----|-------------|------|----------|
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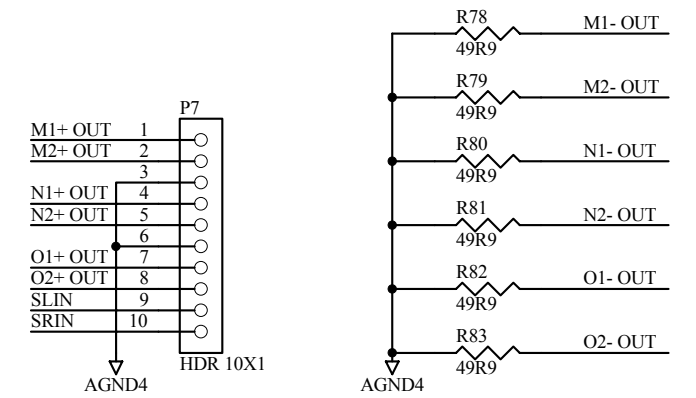
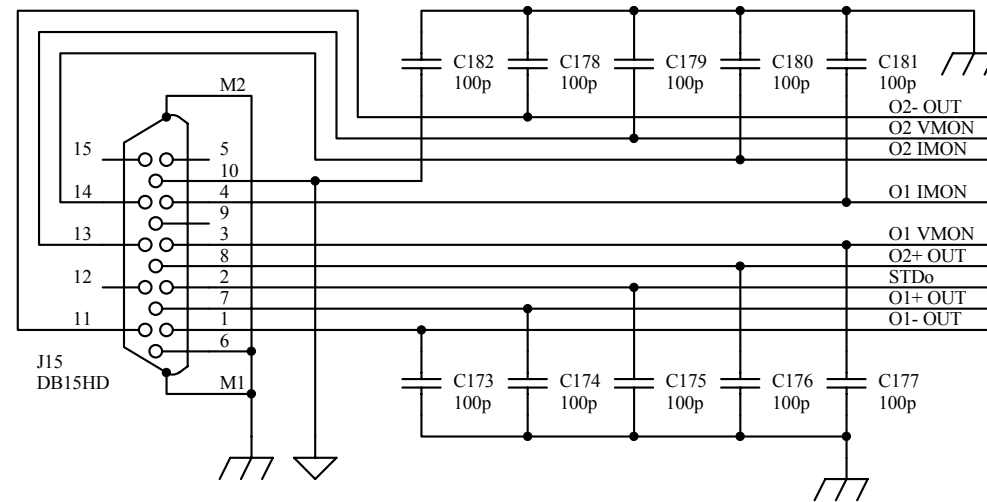
DATAPORT M
(Surround 1)



DATAPORT N
(Surround 2)



DATAPORT O
(Surround 3)



THAT Corporation 45 Sumner Street
Milford, MA
508-478-9200

Title: **DCM-2/DCM-3 Monitor Board**
Dataports M,N,O (Surrounds)

| | |
|-------------|-------|
| Checked: | Date: |
| Proj. Eng.: | Date: |
| Chf. Eng.: | Date: |
| Production: | Date: |

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|---|-------------------------------|---------------------|
| Size: B | Drawing Number: 330313 | Revision: 01 |
| Date: 19-Sep-2002 | Drawn by: CMH | Sheet 5 of 13 |
| File: F:\DM\SH\SH004051gp\CUR China REV\313-01011.DDB - Documents\313-0 | | |

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| Rev | Description | Date | Approved |
|-----|-------------|------|----------|
| | | | |

D

C

B

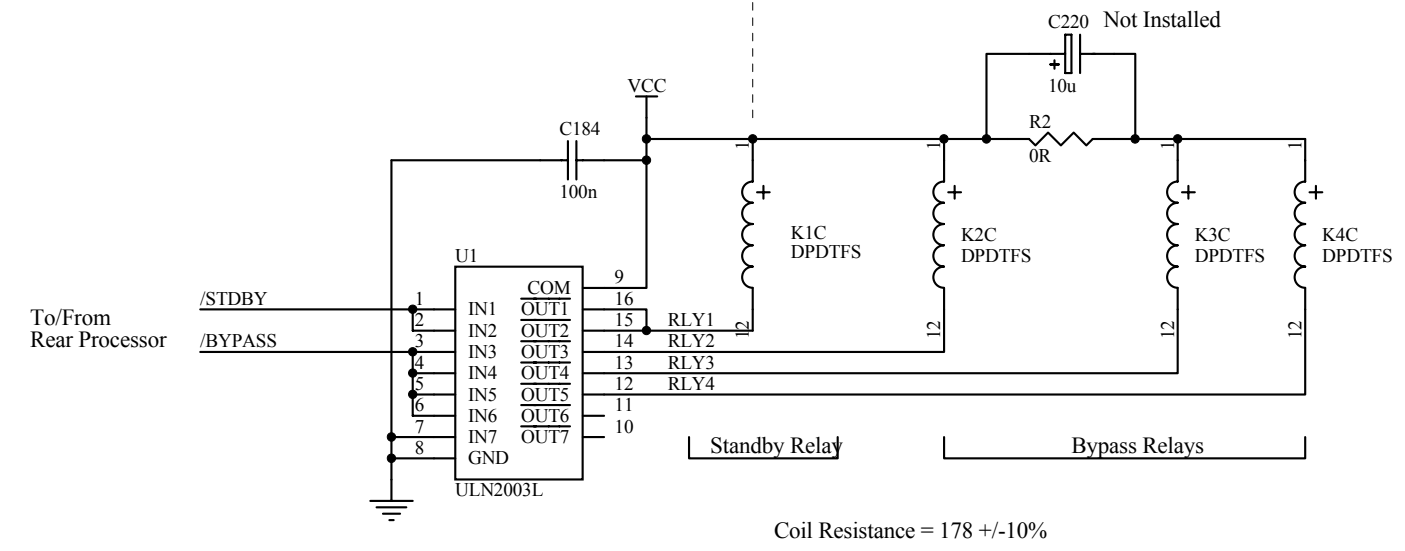
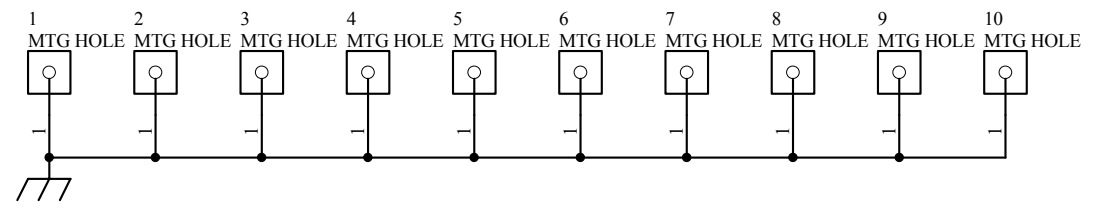
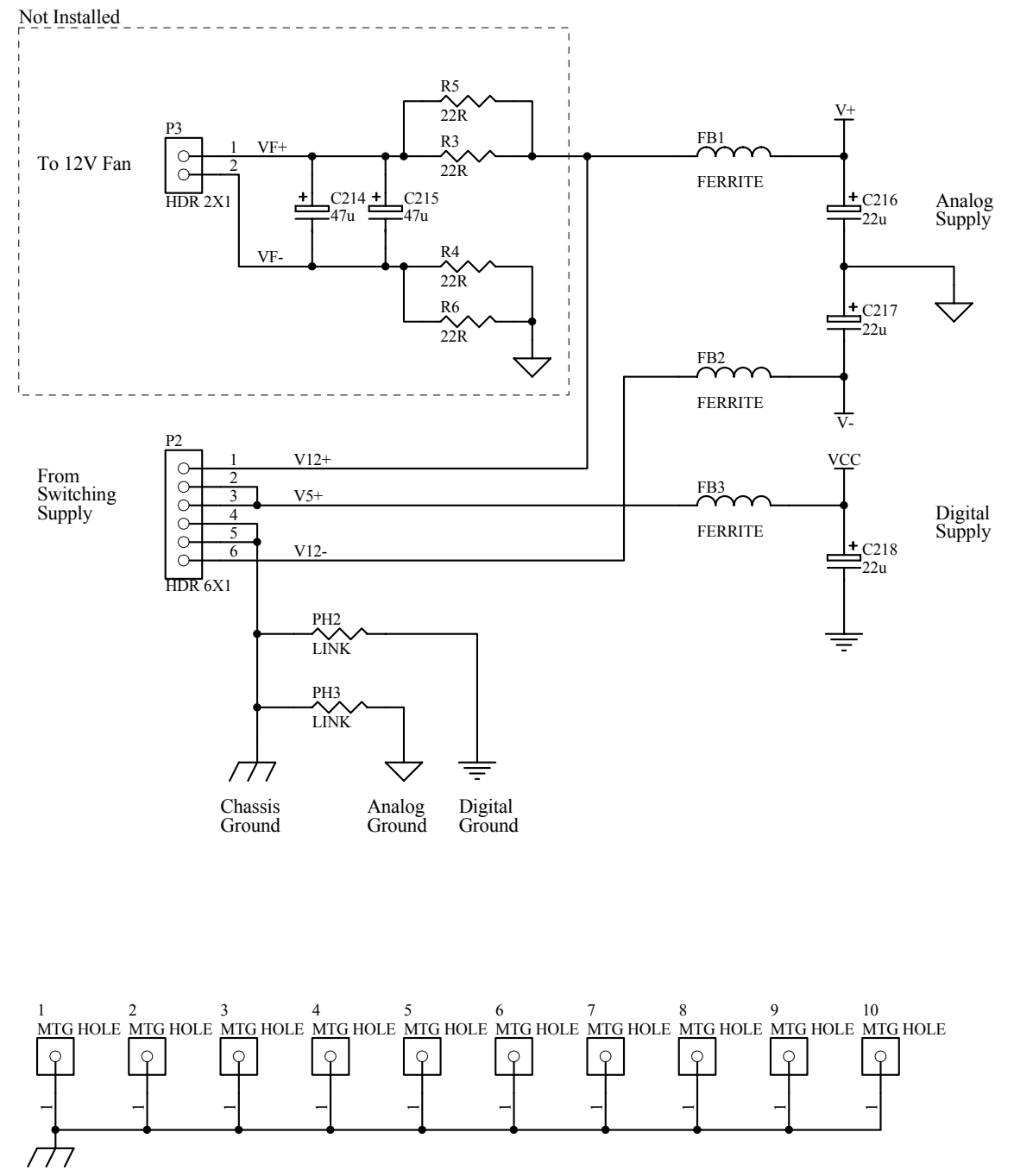
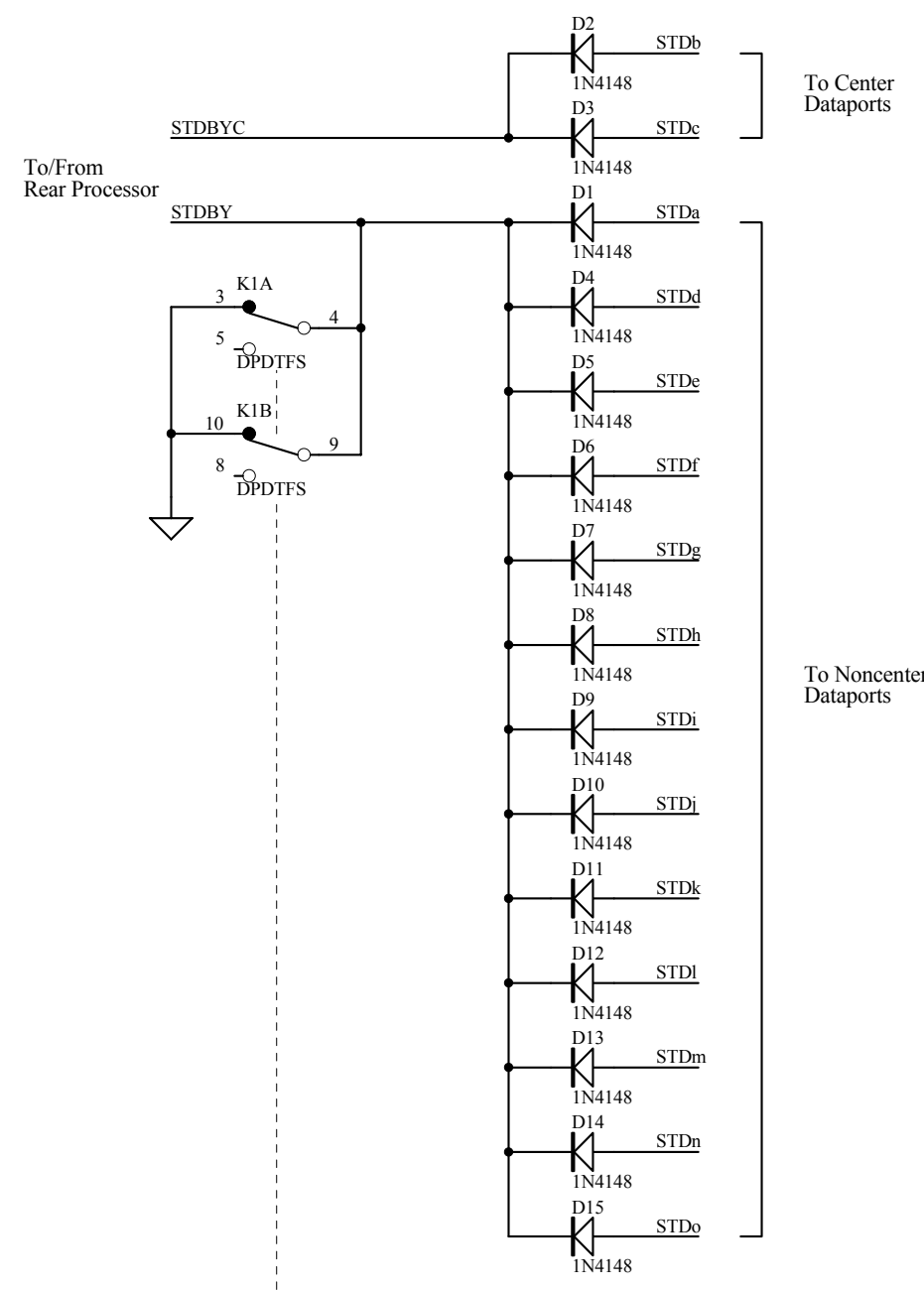
A

D

C

B

A



THAT Corporation 45 Sumner Street
Milford, MA 01854
508-478-9200

Title: **DCM-2/DCM-3 Monitor Board**
Standby & Bypass Relays and Power Input

| | |
|-------------|-------|
| Checked: | Date: |
| Proj. Eng.: | Date: |
| Chf. Eng.: | Date: |
| Production: | Date: |

| | | |
|---|-------------------------------|---------------------|
| Size: B | Drawing Number: 330313 | Revision: 01 |
| Date: 19-Sep-2002 | Drawn by: CMH | Sheet 6 of 13 |
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| Rev | Description | Date | Approved |
|-----|-------------|------|----------|
| | | | |

D

C

B

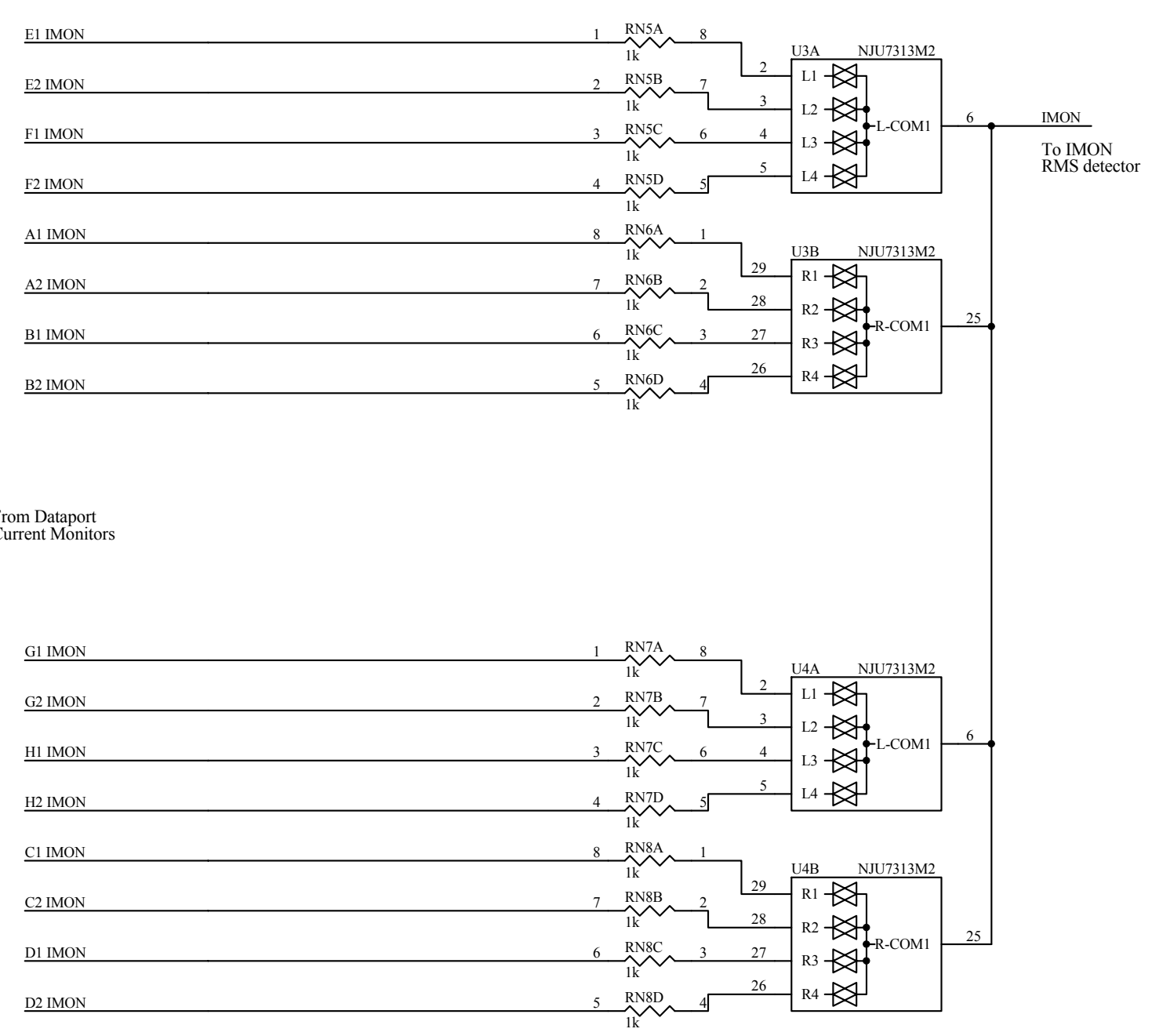
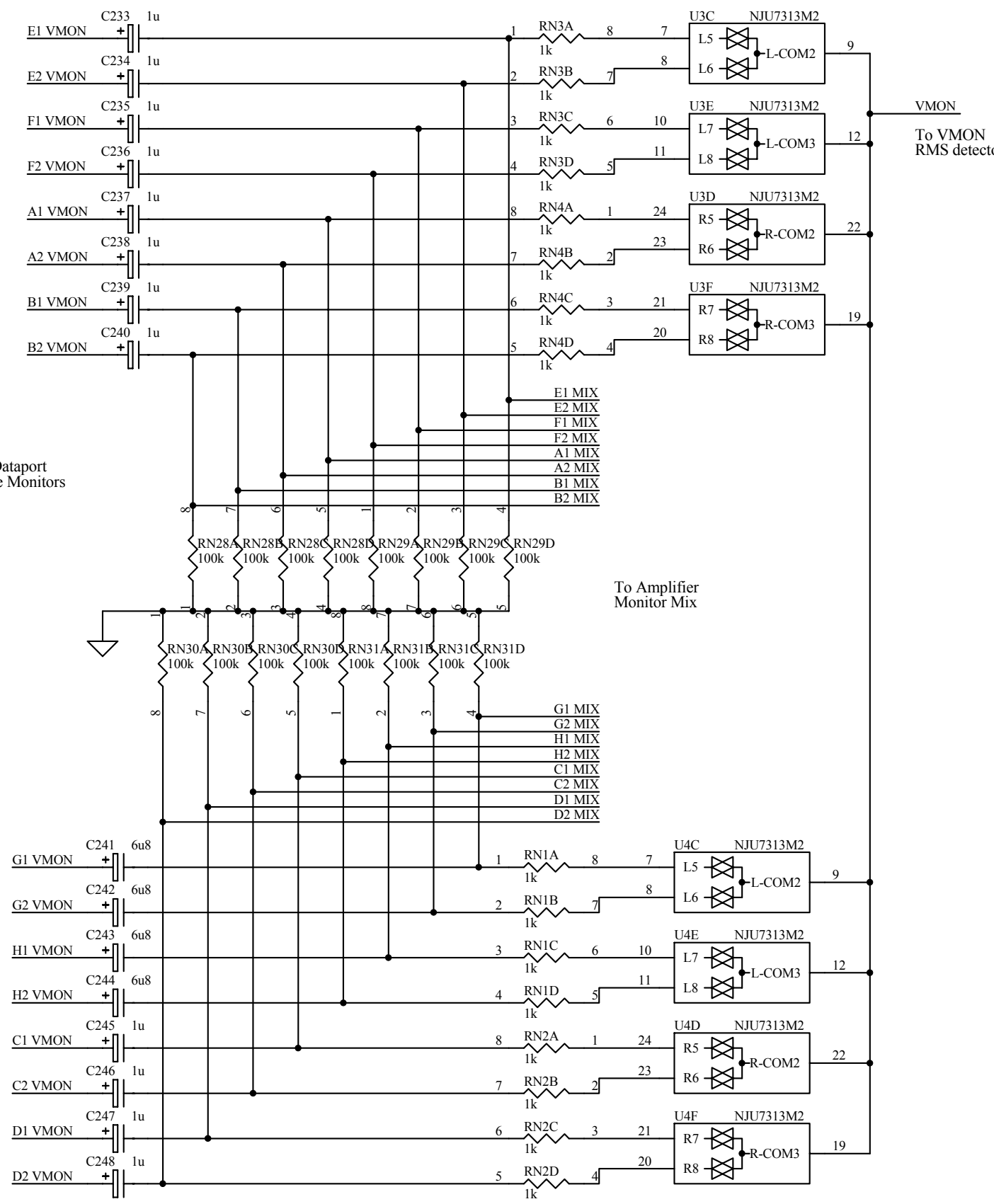
A

D

C

B

A



THAT Corporation 45 Sumner Street
Milford, MA 01854
508-478-9200

Title: **DCM-2/DCM-3 Monitor Board**
VMON & IMON Input Select

| | |
|-------------|-------|
| Checked: | Date: |
| Proj. Eng.: | Date: |
| Chf. Eng.: | Date: |
| Production: | Date: |

| | | |
|---|-------------------------------|---------------------|
| Size: B | Drawing Number: 330313 | Revision: 01 |
| Date: 19-Sep-2002 | Drawn by: CMH | Sheet 7 of 13 |
| File: F:\DM\SH\SH004051gp\CUR_China_REV\313-01011.DDB - Documents\313-0 | | |

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| Rev | Description | Date | Approved |
|-----|-------------|------|----------|
| | | | |

D

C

B

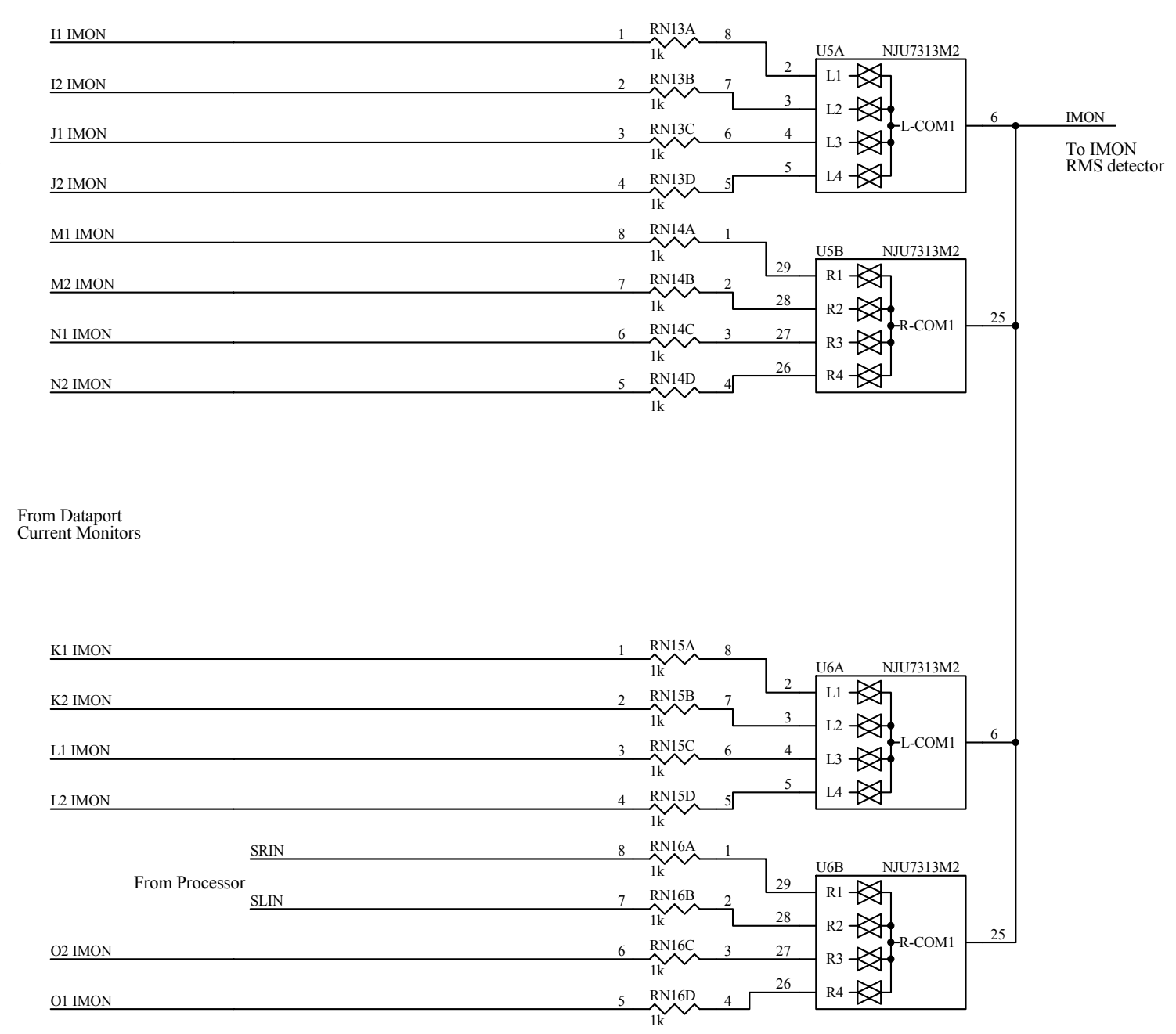
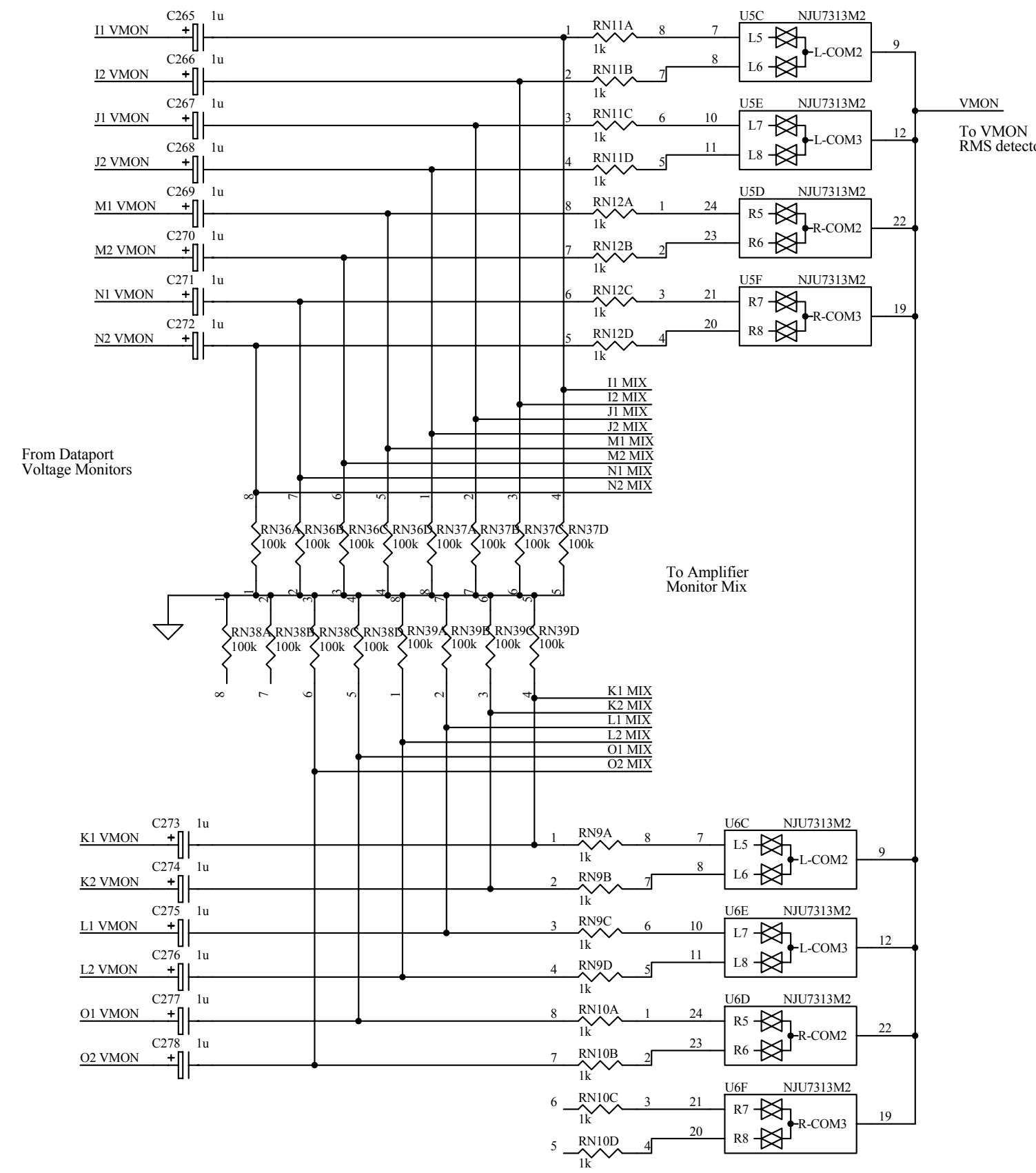
A

D

C

B

A



THAT Corporation 45 Sumner Street
Milford, MA 01854
508-478-9200

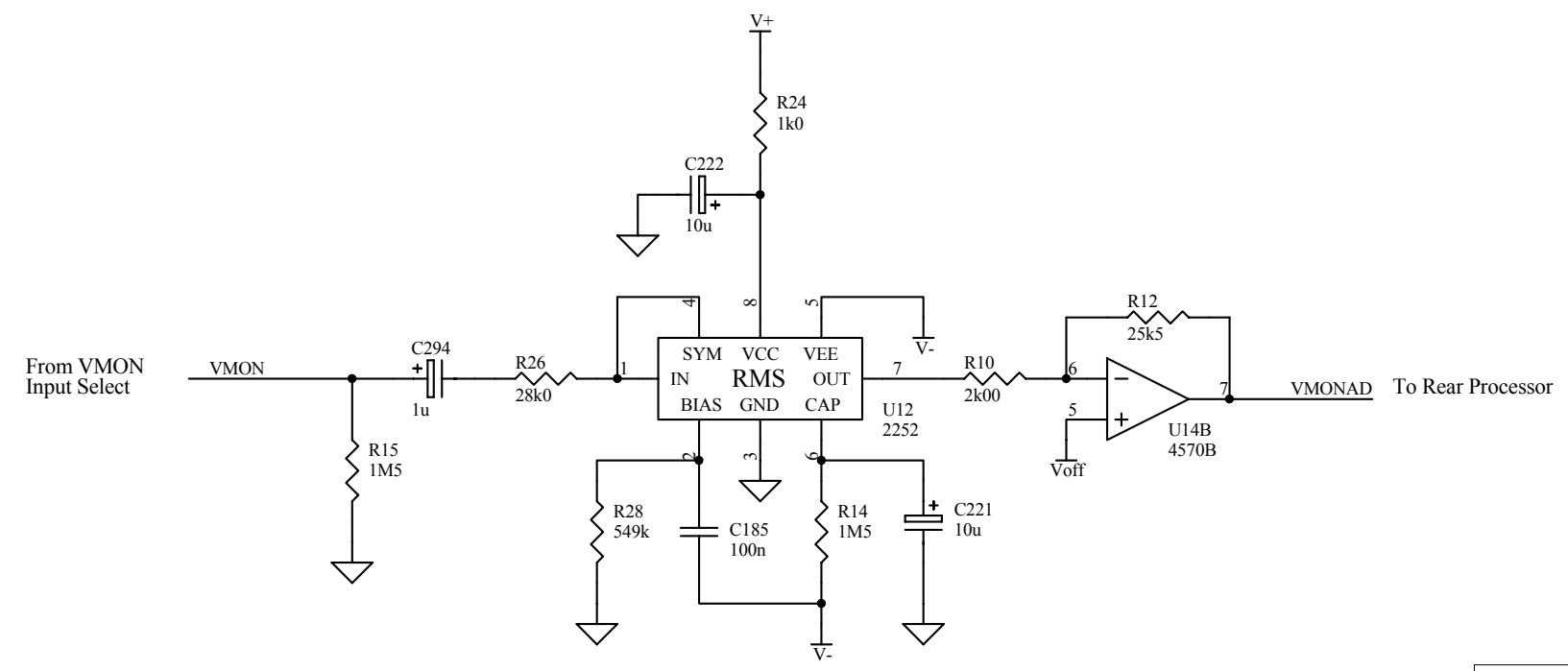
Title: **DCM-2/DCM-3 Monitor Board**
VMON & IMON Input Select

| | |
|-------------|-------|
| Checked: | Date: |
| Proj. Eng.: | Date: |
| Chf. Eng.: | Date: |
| Production: | Date: |

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|---|-------------------------------|---------------------|
| Size: B | Drawing Number: 330313 | Revision: 01 |
| Date: 19-Sep-2002 | Drawn by: CMH | Sheet 8 of 13 |
| File: F:\DM\SH\SH004051gp\CUR_China_REV\313-01011.DDB - Documents\313-0 | | |

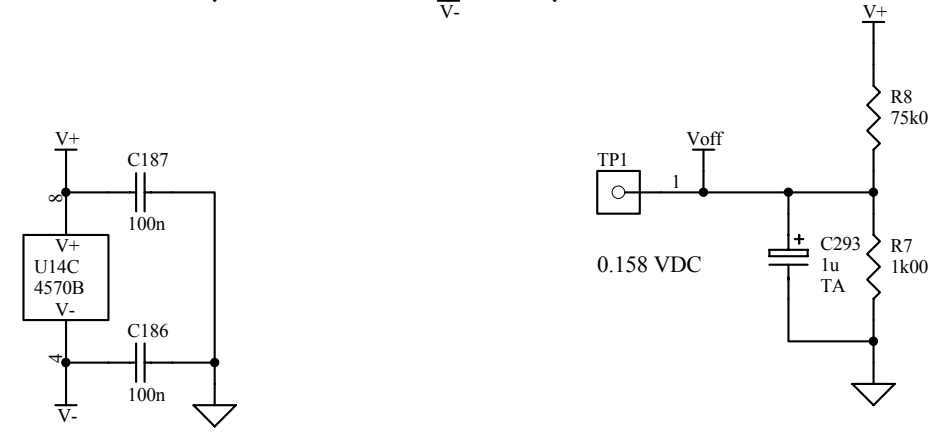
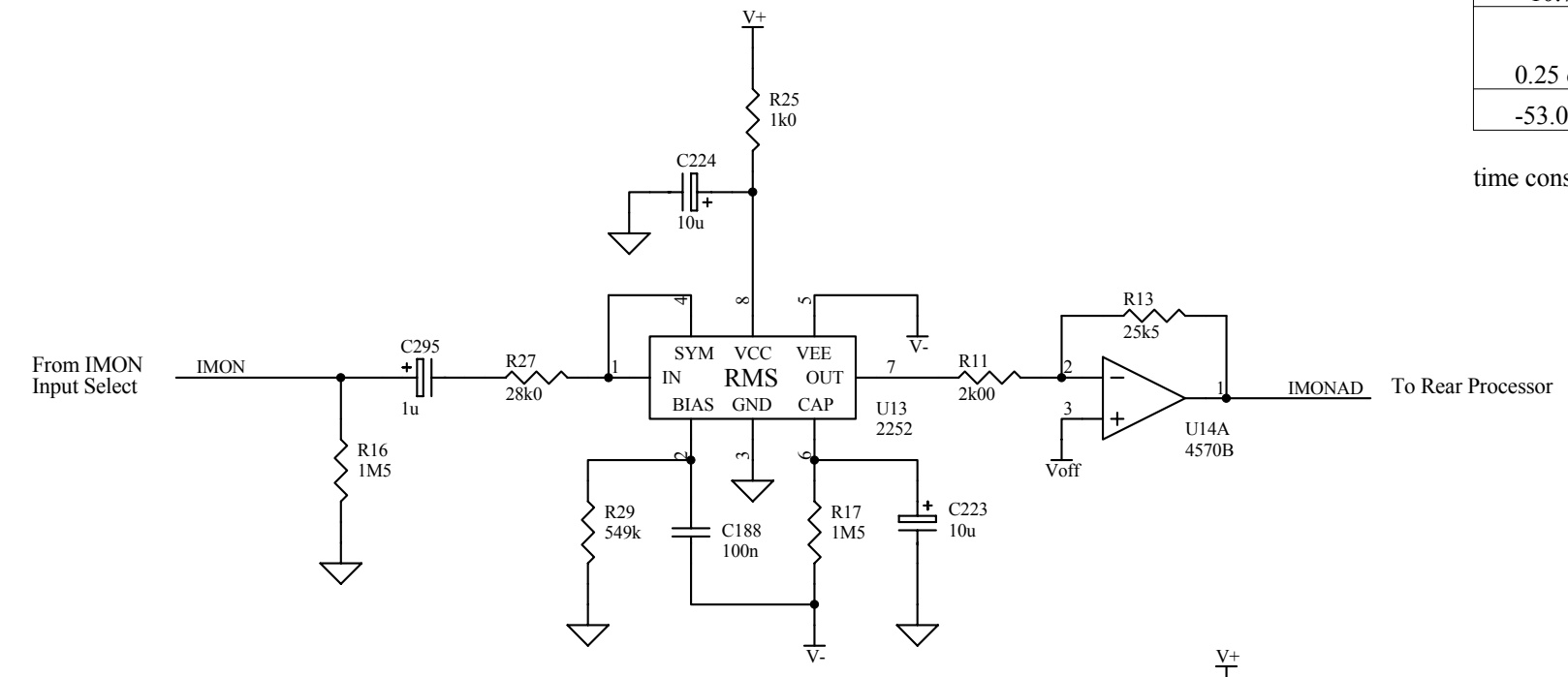
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|-----|-------------|------|----------|
| | | | |



| Input (dBV) | Output (V) |
|---------------|-------------|
| +10.75 | 0.02 |
| ⋮ | ⋮ |
| 0.25 dB steps | 20 mV steps |
| -53.0 | 5.0 |

time constant = 35mS



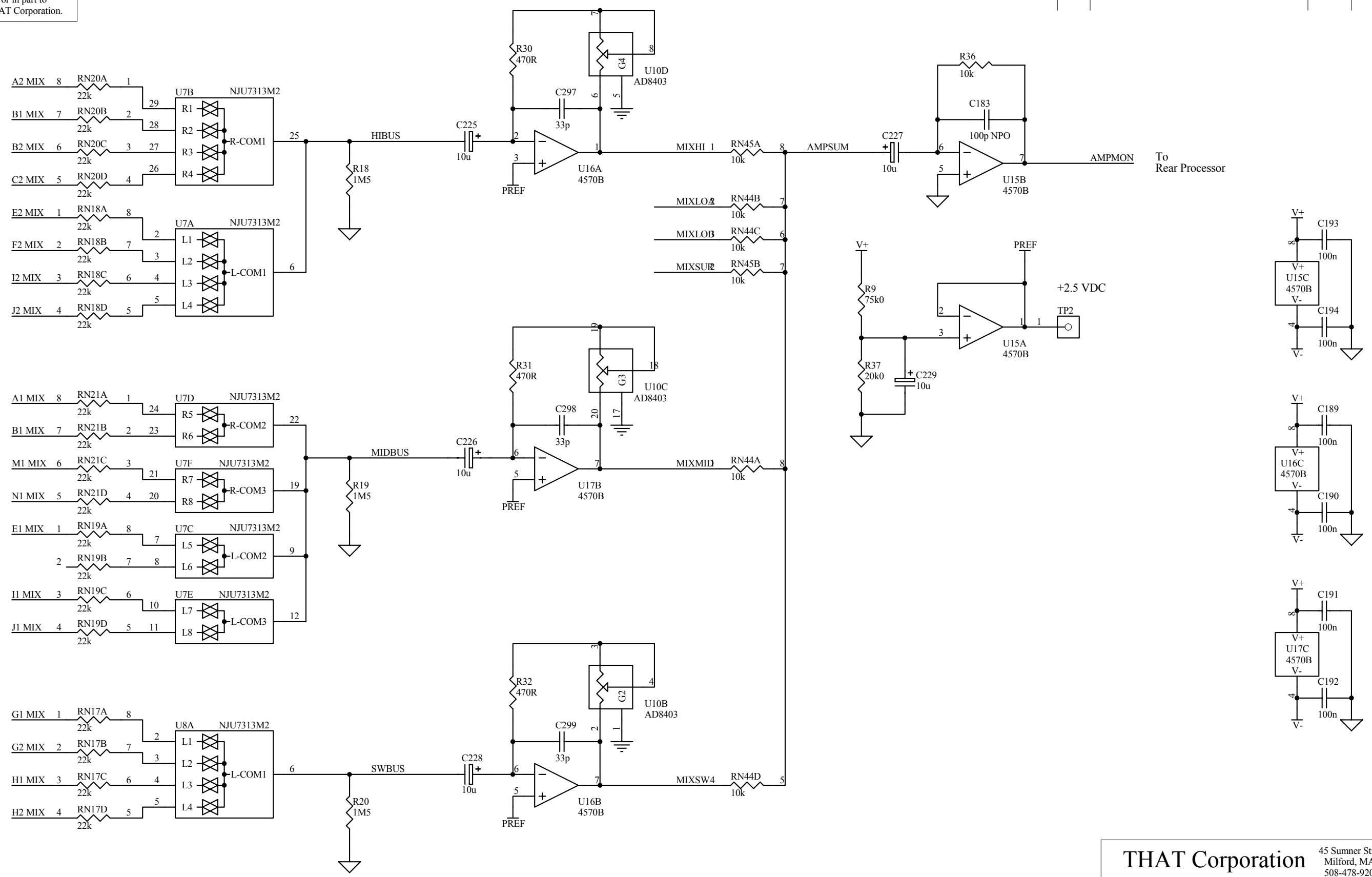
THAT Corporation 45 Sumner Street
Milford, MA 508-478-9200

Title: **DCM-2/DCM-3 Monitor Board**
Amp Voltage Monitor

| | | | | |
|-------------|-------|---|-------------------------------|---------------------|
| Checked: | Date: | Size: B | Drawing Number: 330313 | Revision: 01 |
| Proj. Eng.: | Date: | Date: 19-Sep-2002 | Drawn by: CMH | Sheet 9 of 13 |
| Chf. Eng.: | Date: | File: F:\DM\SH\SH004051gp\CUR China REV\313-01011.DDB - Documents\313-0 | | |
| Production: | Date: | | | |

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From Dataport VMON Inputs

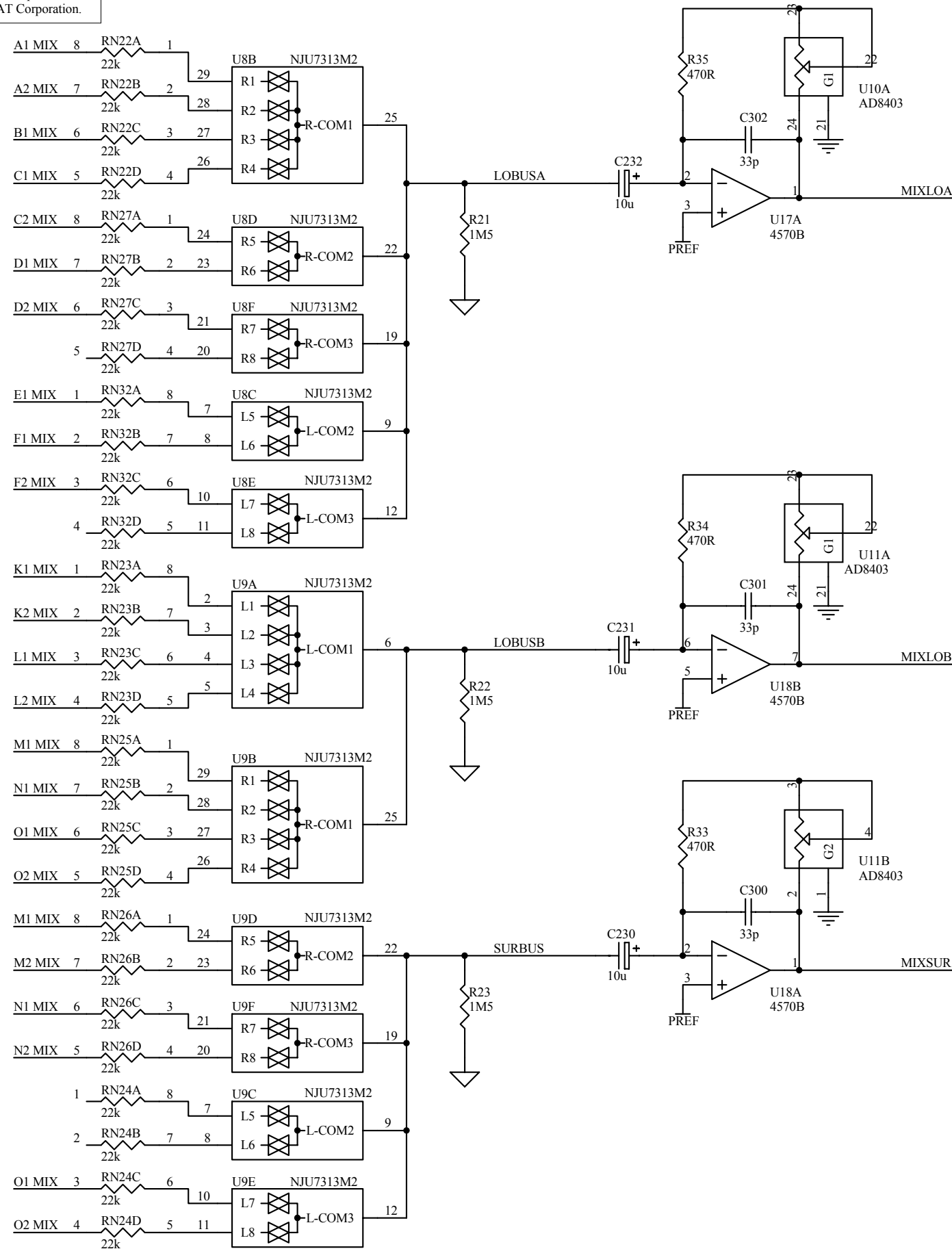
To Rear Processor

THAT Corporation
 45 Sumner Street
 Milford, MA
 508-478-9200

| | | |
|-------------|-------|---|
| Checked: | Date: | Title: DCM-2/DCM-3 Monitor Board Amp Monitor Mix (HI, MID, SW) |
| Proj. Eng.: | Date: | |
| Chf. Eng.: | Date: | Size: B Drawing Number: 330313 Revision: 01 |
| Production: | Date: | Date: 19-Sep-2002 Drawn by: CMH Sheet 10 of 13 File: F:\DM\SH\SH004051gp\CUR_China_REV\313-01011.DDB - Documents\313-1 |

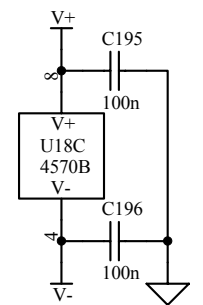
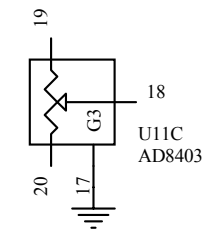
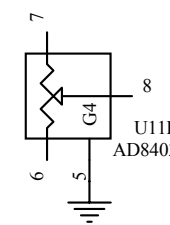
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From Dataport VMON Inputs

To Amp Monitor Mix



THAT Corporation 45 Sumner Street
Milford, MA
508-478-9200

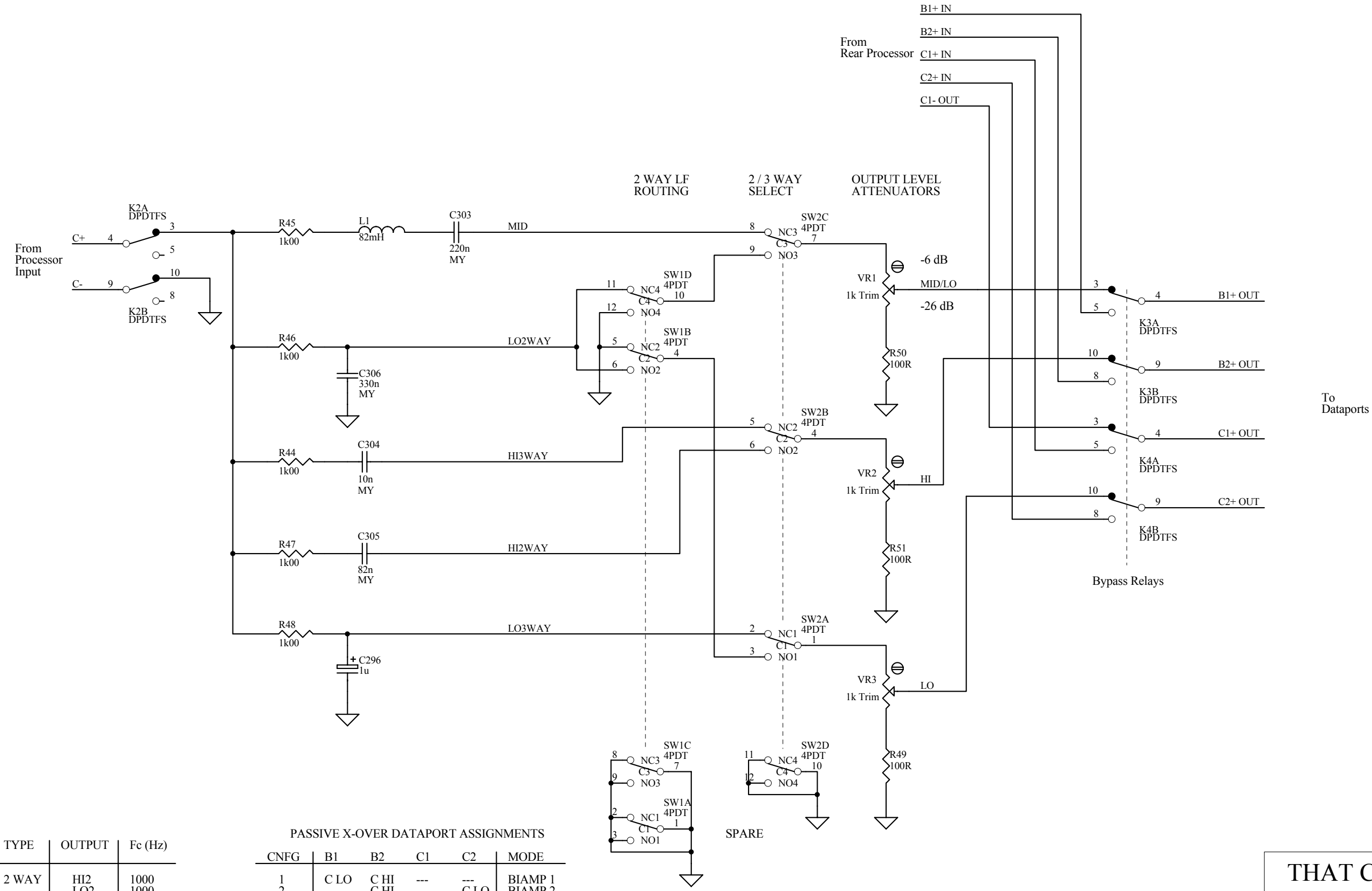
Title: **DCM-2/DCM-3 Monitor Board**
Amp Monitor Mix (LO, SUR)

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|-------------|-------|
| Checked: | Date: |
| Proj. Eng.: | Date: |
| Chf. Eng.: | Date: |
| Production: | Date: |

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|---|-------------------------------|---------------------|
| Size: B | Drawing Number: 330313 | Revision: 01 |
| Date: 19-Sep-2002 | Drawn by: CMH | Sheet 11 of 13 |
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| TYPE | OUTPUT | Fc (Hz) |
|-------|--------|---------|
| 2 WAY | HI2 | 1000 |
| | LO2 | 1000 |
| 3 WAY | HI3 | 5000 |
| | MID3 | 5000 |
| | MID3 | 300 |
| | LO3 | 300 |

| PASSIVE X-OVER DATAPORT ASSIGNMENTS | | | | | | |
|-------------------------------------|-------|------|-----|------|---------|--|
| CNFG | B1 | B2 | C1 | C2 | MODE | |
| 1 | C LO | C HI | --- | --- | BIAMP 1 | |
| 2 | --- | C HI | --- | C LO | BIAMP 2 | |
| 3 | C MID | C HI | --- | C LO | TRIAMP | |
| 4 | C MID | C HI | --- | C LO | TRIAMP | |
| 5 | C LO | C HI | --- | --- | BIAMP 1 | |
| 6 | C MID | C HI | --- | C LO | TRIAMP | |
| 7 | C MID | C HI | --- | C LO | TRIAMP | |

THAT Corporation 45 Sumner Street
 Milford, MA 508-478-9200

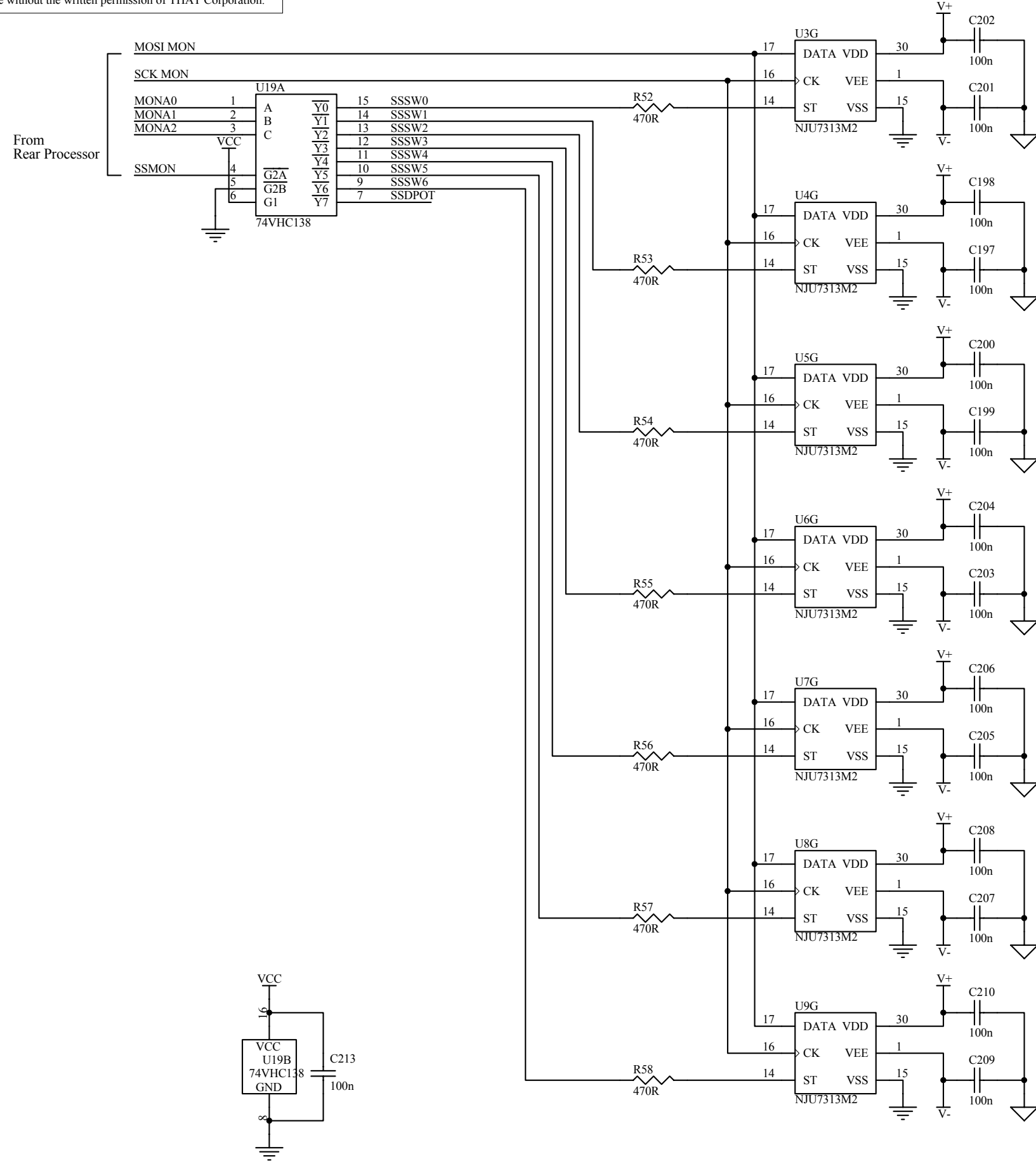
Title: **DCM-2/DCM-3 Monitor Board**
 Center Channel Bypass

| | |
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| Chf. Eng.: | Date: |
| Production: | Date: |

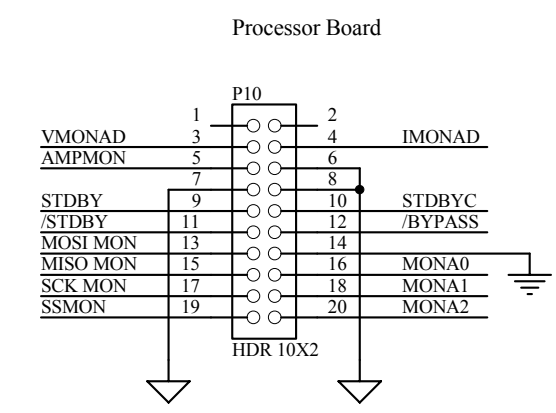
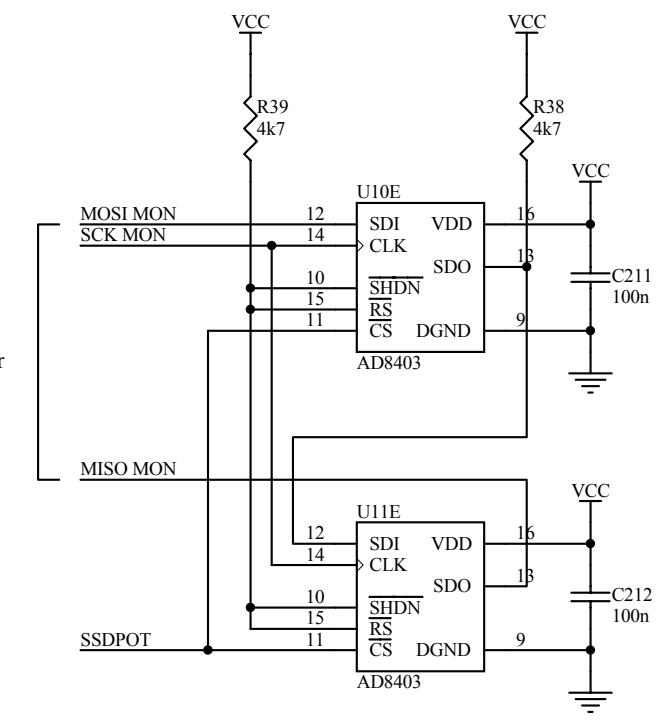
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| Size: B | Drawing Number: 330313 | Revision: 01 |
| Date: 19-Sep-2002 | Drawn by: CMH | Sheet 12 of 13 |
| File: F:\DM\SH\SH004051gp\CUR China REV\313-01011.DDB - Documents\313-1 | | |

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| Rev | Description | Date | Approved |
|-----|-------------|------|----------|
| | | | |



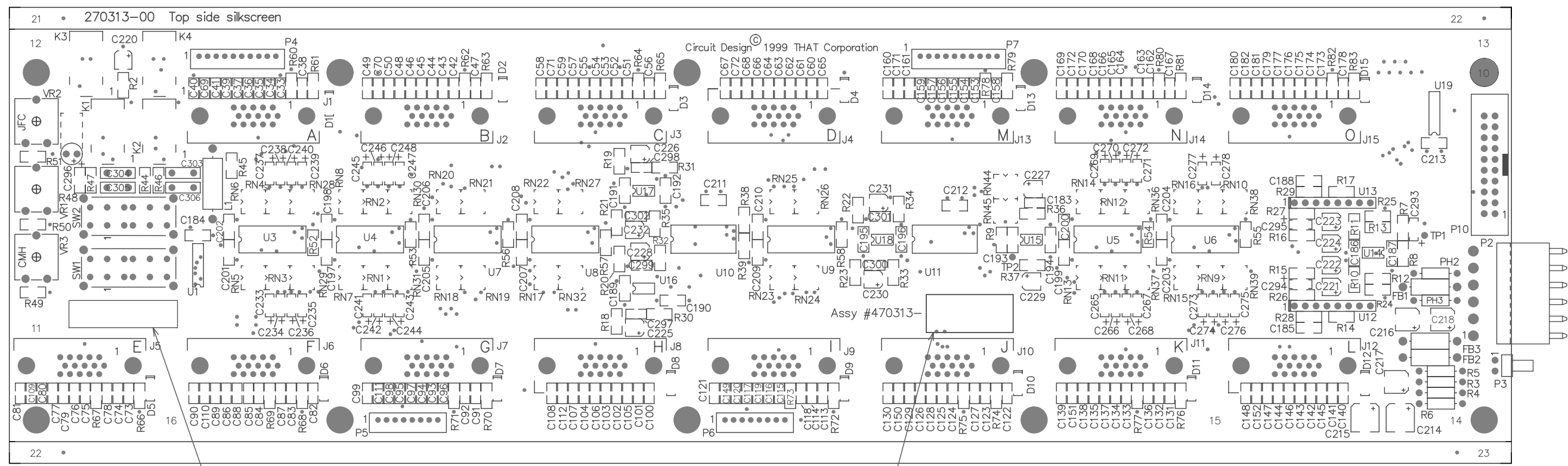
To/From Rear Processor



THAT Corporation 45 Sumner Street
Milford, MA 01854
508-478-9200

Title: **DCM-2/DCM-3 Monitor Board**
Analog Switch & Digital Pot Control

| | | | | |
|-------------|-------|---|-------------------------------|---------------------|
| Checked: | Date: | Size: B | Drawing Number: 330313 | Revision: 01 |
| Proj. Eng.: | Date: | Date: 19-Sep-2002 | Drawn by: CMH | Sheet 13 of 13 |
| Chf. Eng.: | Date: | File: F:\DM\SH\SH004051gp\CUR_China_REV\313-01011.DDB - Documents\313-1 | | |
| Production: | Date: | | | |



Serial Number Label
See Note 2

Kit Number Label
See Note 2

- Notes:
1. Reference Parts List 370313 (DCM-3) or 370329 (DCM-2).
 2. Attach Kit Number and Serial Number Labels as shown.

| REV | DESCRIPTION | DATE | APP'D |
|-----|-------------|------|-------|
| 01 | Per ECO 197 | 8/99 | |

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| RELEASED | | | |
|----------|--------|---------|--------|
| DRWN | DATE | PJ. ENG | DATE |
| JFC | 4/5/99 | CMH | 7/7/99 |
| CHK'D | DATE | CH ENG | DATE |
| | | GKH | 7/7/99 |

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES AND/OR MILLIMETERS (mm)
TOLERANCES ON INCHES
.XX+/-0.15 .XXX+/-0.05
TOLERANCES ON MILLIMETERS
(X)+/-0.4mm (XX)+/-0.13mm
ANGLE +/-0.5 FRACTIONS +/-1/32

TITLE:
Printed Circuit Board
Assembly Drawing
DCM-2/3 Monitor

| | | |
|---------------------------------------|-------------------|-----------|
| THAT Corporation Milford, MA 01757 | | |
| SIZE B | DWG NO. 470313 | REV 01 |
| SCALE: None | SHEET 1 OF 1 | |