

E2V CCD44-82

SIZE 2048 x 4096
NO MPP IMPLANT

PARALLEL 60 NF
SERIAL XXX PF

PCLKS 200OHMS AND 100NF
SCLKS 100 OHMS AND 330PF

CHANNEL A

J1
M83513/04-F05N
SOCKET

INSTALL ONLY ONE OF S3 OR S4

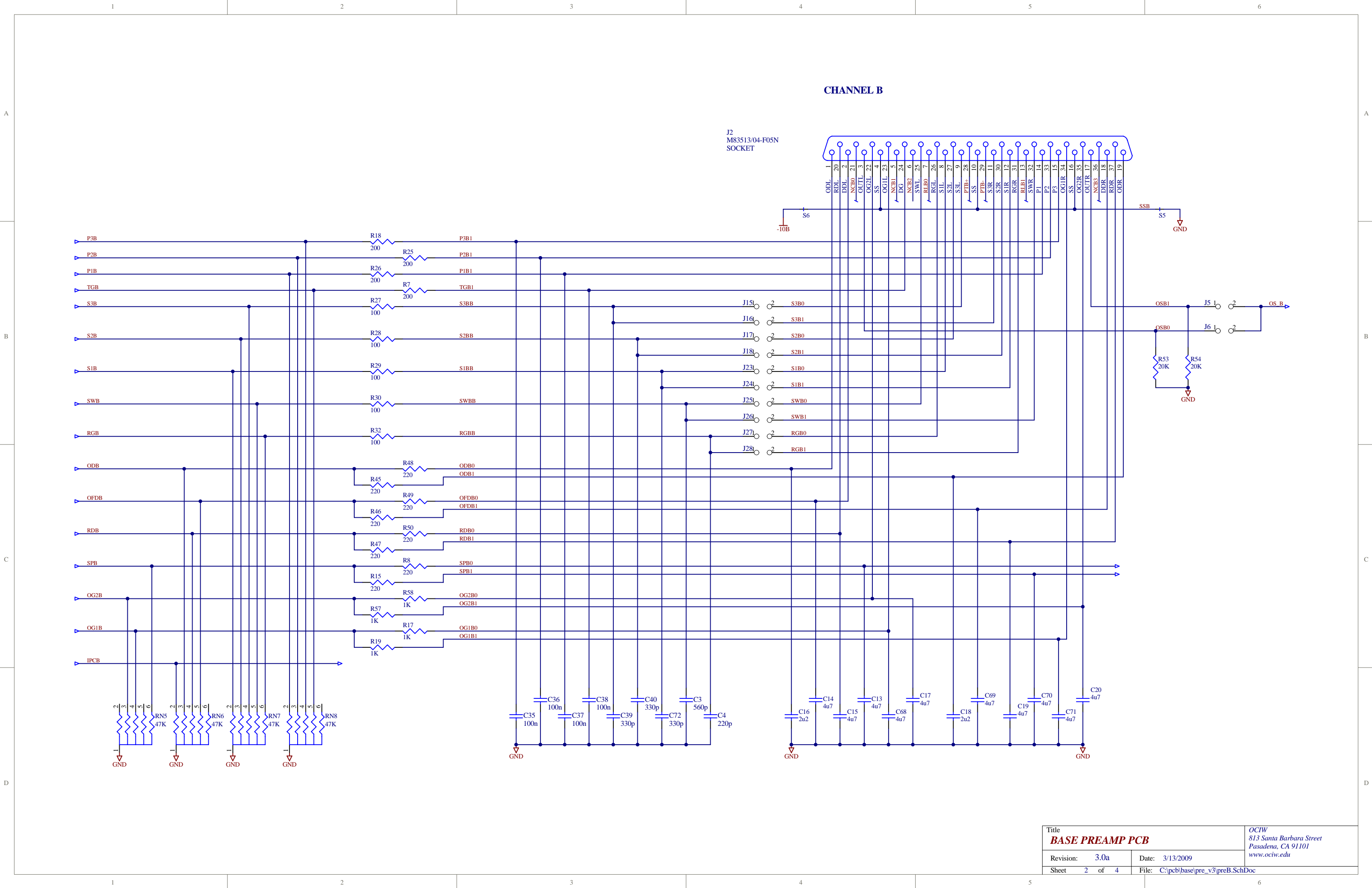
CLOCK FILTER VALUES ARE CCD DEPENDENT

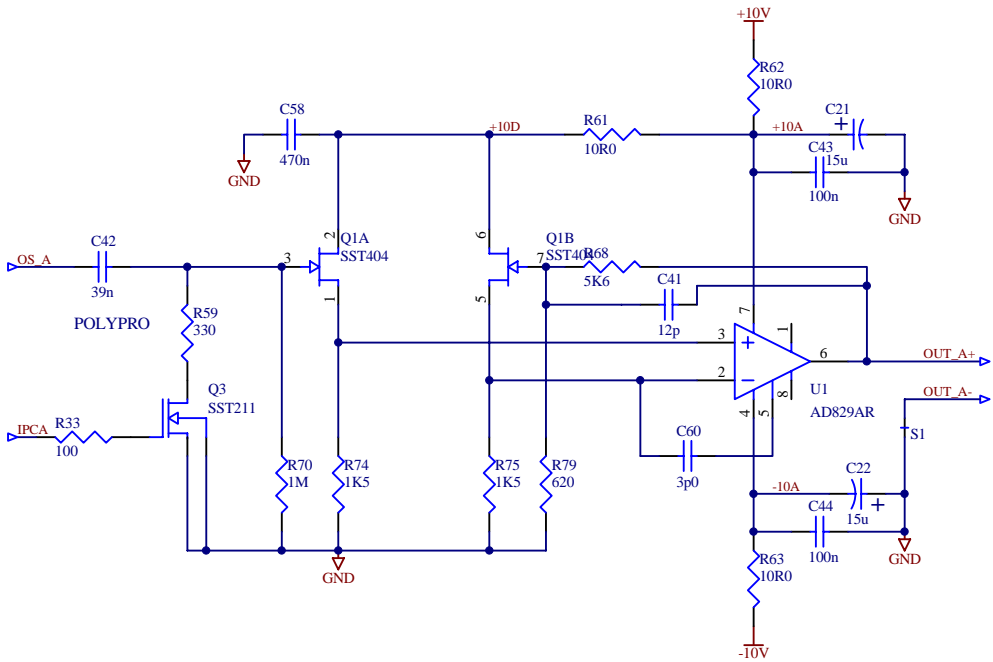
S1R & S2R FLIPPED ON PREAMP
FOR CCD44-82

TANTALUM CAPS ARE 1206 SIZE

NOTE: MIKE-RED HAS 1u0 35V CAPS

Title BASE PREAMP PCB		OCIW 813 Santa Barbara Street Pasadena, CA 91101 www.ociw.edu	
Revision:	3.0a	Date:	3/13/2009
Sheet	1 of 4	File:	C:\pcb\base\pre_v3\preA.SchDoc



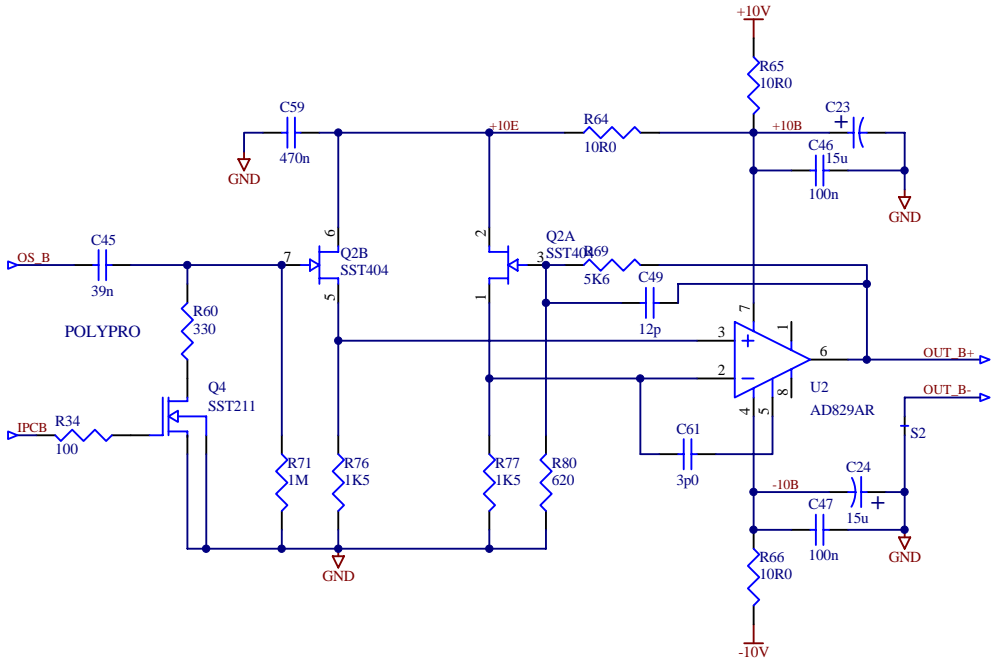


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R68, R69 = 5620 OHMS

R79, R80 = 1100 OHMS

GAIN = 6

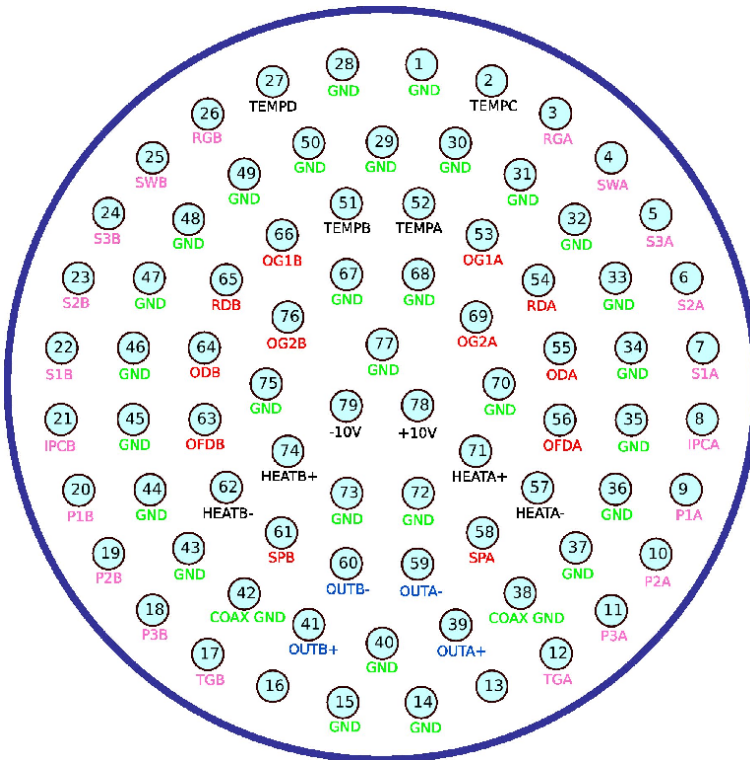


A

B

C

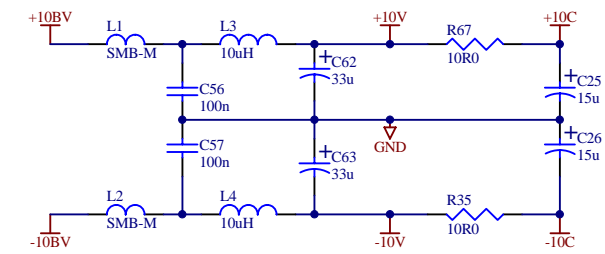
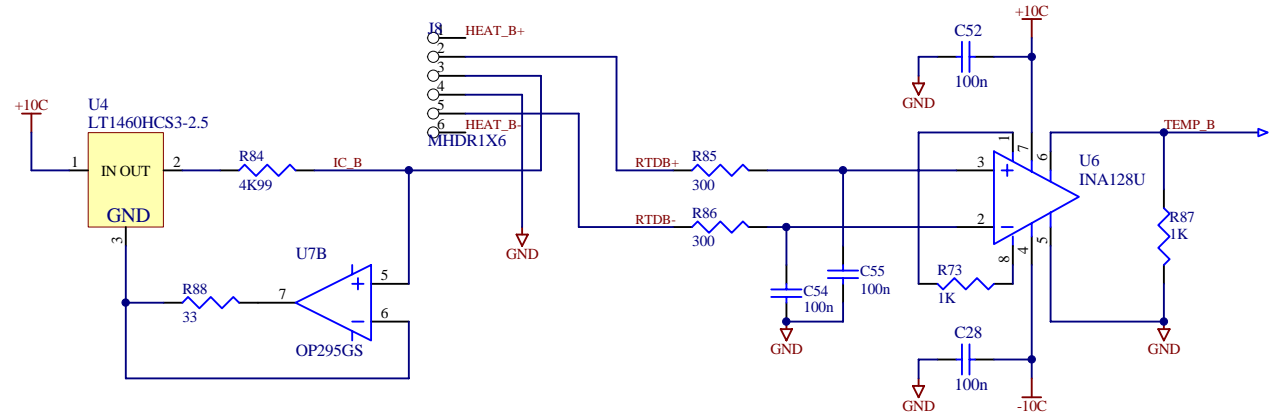
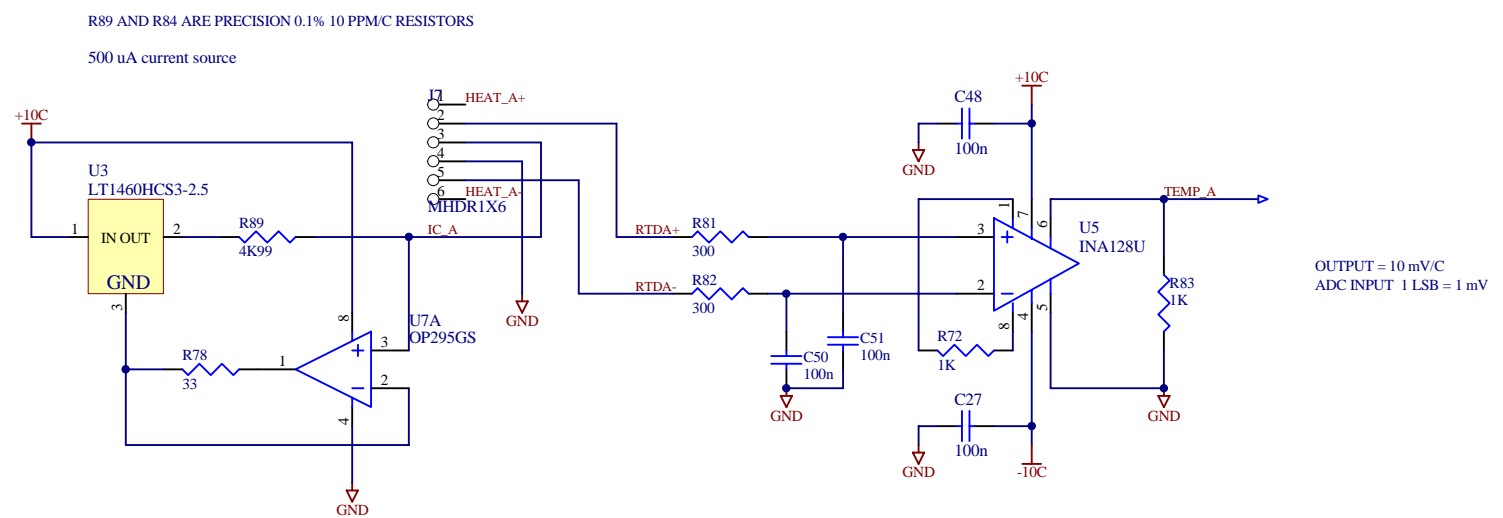
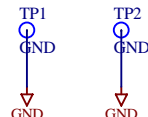
D



PIN A +24V (RED)
PIN B -24V (BLACK)
PIN C -- CHASSIS GND (GREEN)

WIRING PLAN
BIAS -- RED
GROUND -- GREEN
CLOCKS -- WHITE
POWER/HEAT -- BLACK
24 GAUGE TEFLON WIRE

- P1
- | | | |
|---------|-----------|------------|
| 1 GND | 28 GND | 54 RDA |
| 2 GND | 29 GND | 55 ODA |
| 3 RGA | 30 GND | 56 OFDA |
| 4 SWA | 31 GND | 57 HEAT_A- |
| 5 S3A | 32 GND | 58 SPA |
| 6 S2A | 33 GND | 59 OUT_A- |
| 7 S1A | 34 GND | 60 OUT_B- |
| 8 IPCA | 35 GND | 61 SPB |
| 9 P1A | 36 GND | 62 HEAT_B- |
| 10 P2A | 37 GND | 63 OFDB |
| 11 P3A | 38 GND | 64 ODB |
| 12 TGA | 39 OUT_A+ | 65 RDB |
| 13 | 40 GND | 66 OG1B |
| 14 GND | 41 OUT_B+ | 67 GND |
| 15 GND | 42 GND | 68 GND |
| 16 | 43 GND | 69 OG2A |
| 17 TGB | 44 GND | 70 GND |
| 18 P3B | 45 GND | 71 HEAT_A+ |
| 19 P2B | 46 GND | 72 GND |
| 20 P1B | 47 GND | 73 GND |
| 21 IPCB | 48 GND | 74 HEAT_B+ |
| 22 S1B | 49 GND | 75 GND |
| 23 S2B | 50 GND | 76 OG2B |
| 24 S3B | 51 TEMP_B | 77 GND |
| 25 SWB | 52 TEMP_A | 78 +10BV |
| 26 RGB | 53 OG1A | 79 -10BV |
- DWR79



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A

B

C

D