

2008.06.03

Table Of Contents

Page	Page	Page
5- DC & Battery Charger.	15- Clock Generator.	36- 15" ODD Extend/B.
6- Select & Battery CONN.	16- CPU Penryn-1.	37- HDD & ODD CONN & Accelerometer.
7- System Power (+V3A/+V5A).	17- CPU Penryn-2.	38- USB CONN.
8- System Power (+V1.8/+VCCP) .	18- CPU Penryn-3.	39- KBC & BIOS ROM.
9- Graphic Power (+VDD_CORE & +VPCIE).	19- XDP & Thermal & Fan.	40- Internal Keyboard & TouchPad CONN.
10- System Power (+V1.5S) .	20- N/B Cantiga-1.	41- Audio CODEC & Earphone & Speaker.
11- CPU Power (+VCC_CORE).	21- N/B Cantiga-2.	42- Audio MIC & MDC CONN.
12- DDR Termination Voltage(+V0.9S).	22- N/B Cantiga-3.	43- Giga LAN controller.
13- Power (Sleep: +V5S/+V3S/+V1.8S).	23- N/B Cantiga-4.	44- Magnetic & RJ45 CONN.
14- Power (Sequence).	24- N/B Cantiga-5.	45- Mini Card(WLAN/Robson)/BT/UWB/Web-CAM.
	25- N/B Cantiga-6.	46- New Card & 4 in 1 Card (SD/MMC/MS/XD).
	26- DDR2-DIMM0.	47- LEDs & Buttons & SW/B.
	27- DDR2-DIMM1.	48- Screws / Crack testing circuit.
	28- DDR2-DAMPING.	49- AMD M82SE-1.
	29- VGA CONN.	50- AMD M82SE-2.
	30- LCM CONN.	51- AMD M82SE-3.
	31- S/B ICH9-1.	52- AMD M82SE-4.
	32- S/B ICH9-2.	53- Video RAM-1 (GDDR2).
	33- S/B ICH9-3.	54- Video RAM-2 (GDDR2).
	34- S/B ICH9-4.	
	35- S/B ICH9-5.	

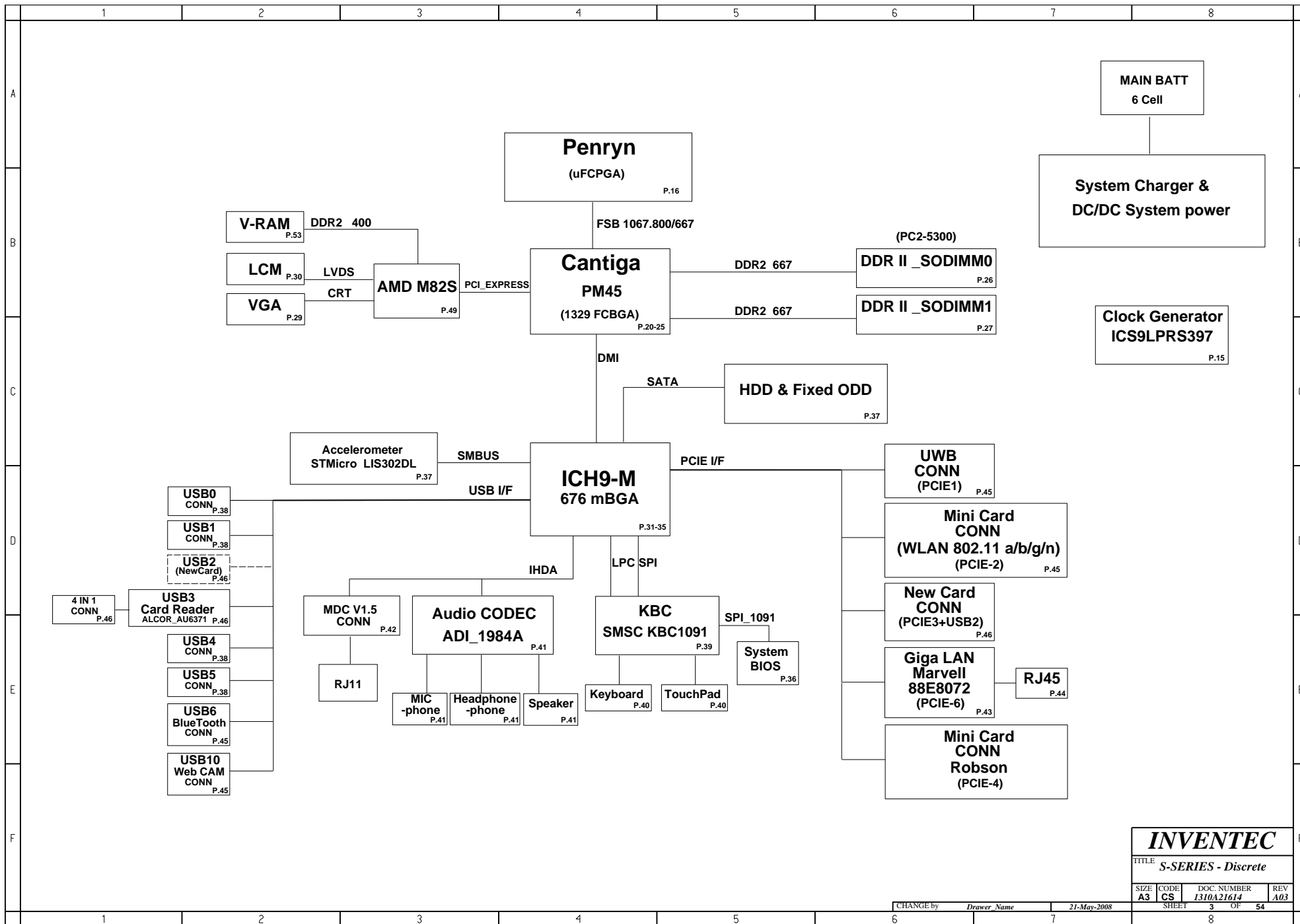
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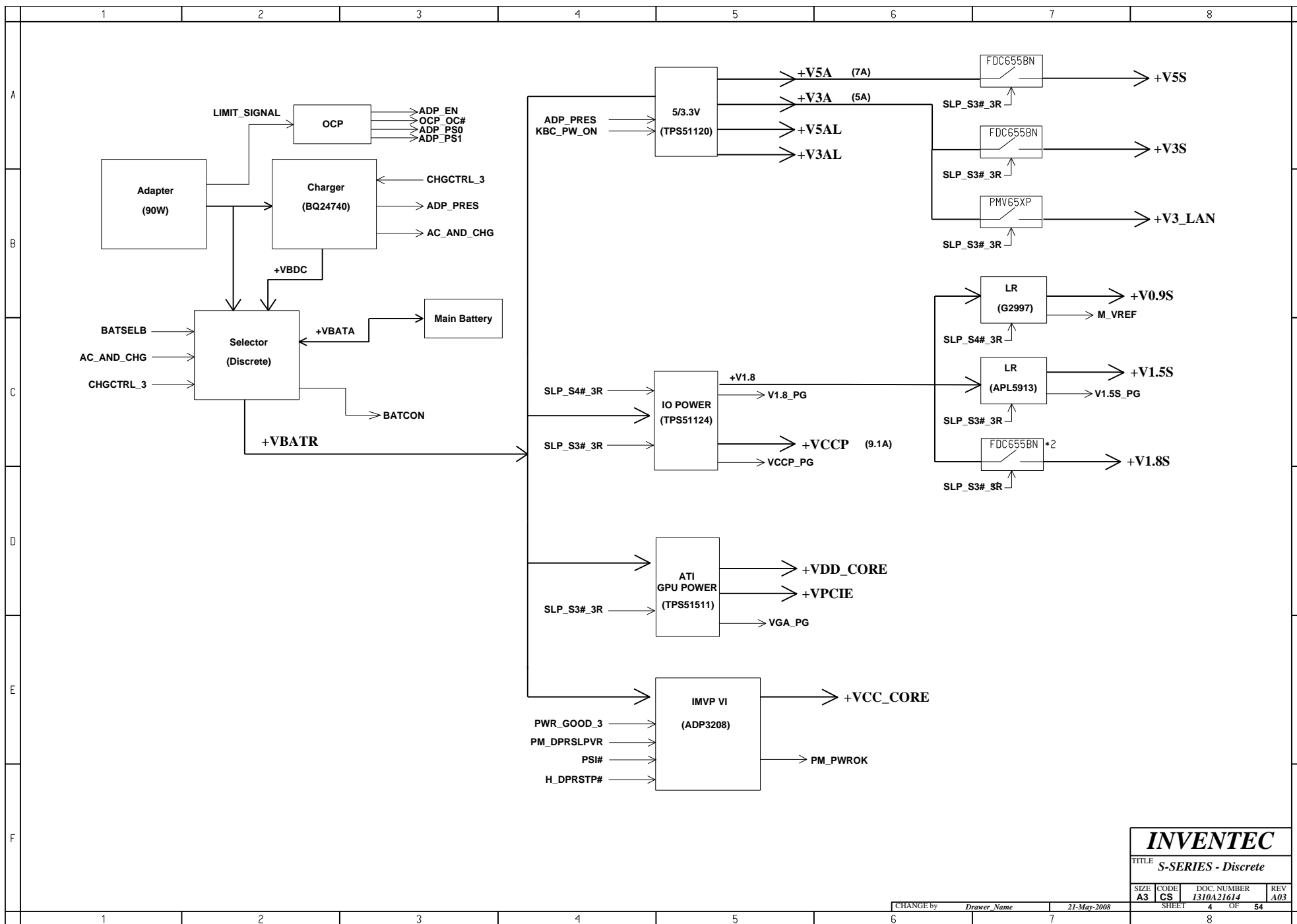
TITLE *S-SERIES - Discrete*

SIZE A3	CODE CS	DOC. NUMBER 1310A21614	REV A03
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CHANGE by *Drawer Name* 28-May-2008

SHEET 2 OF 54





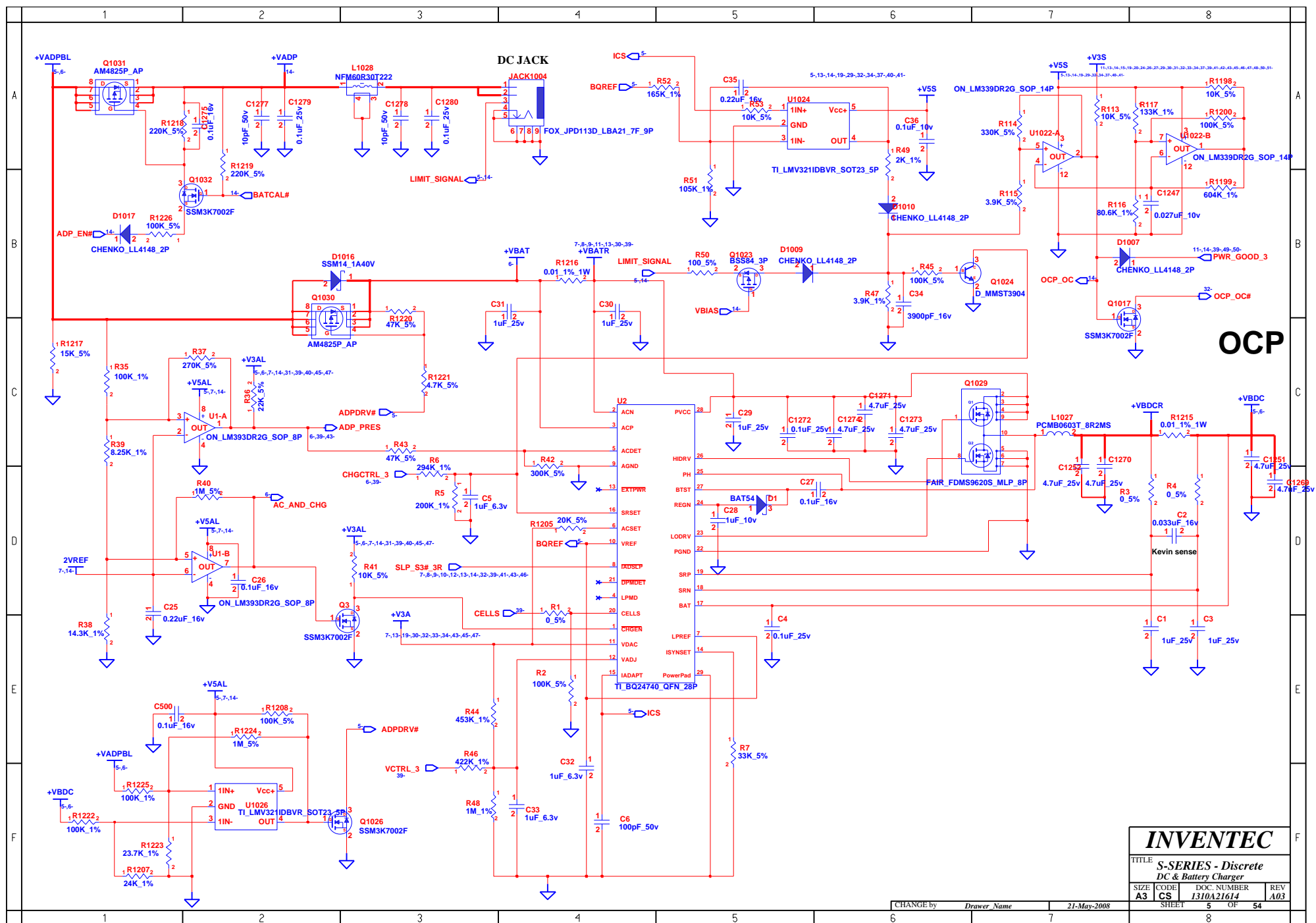
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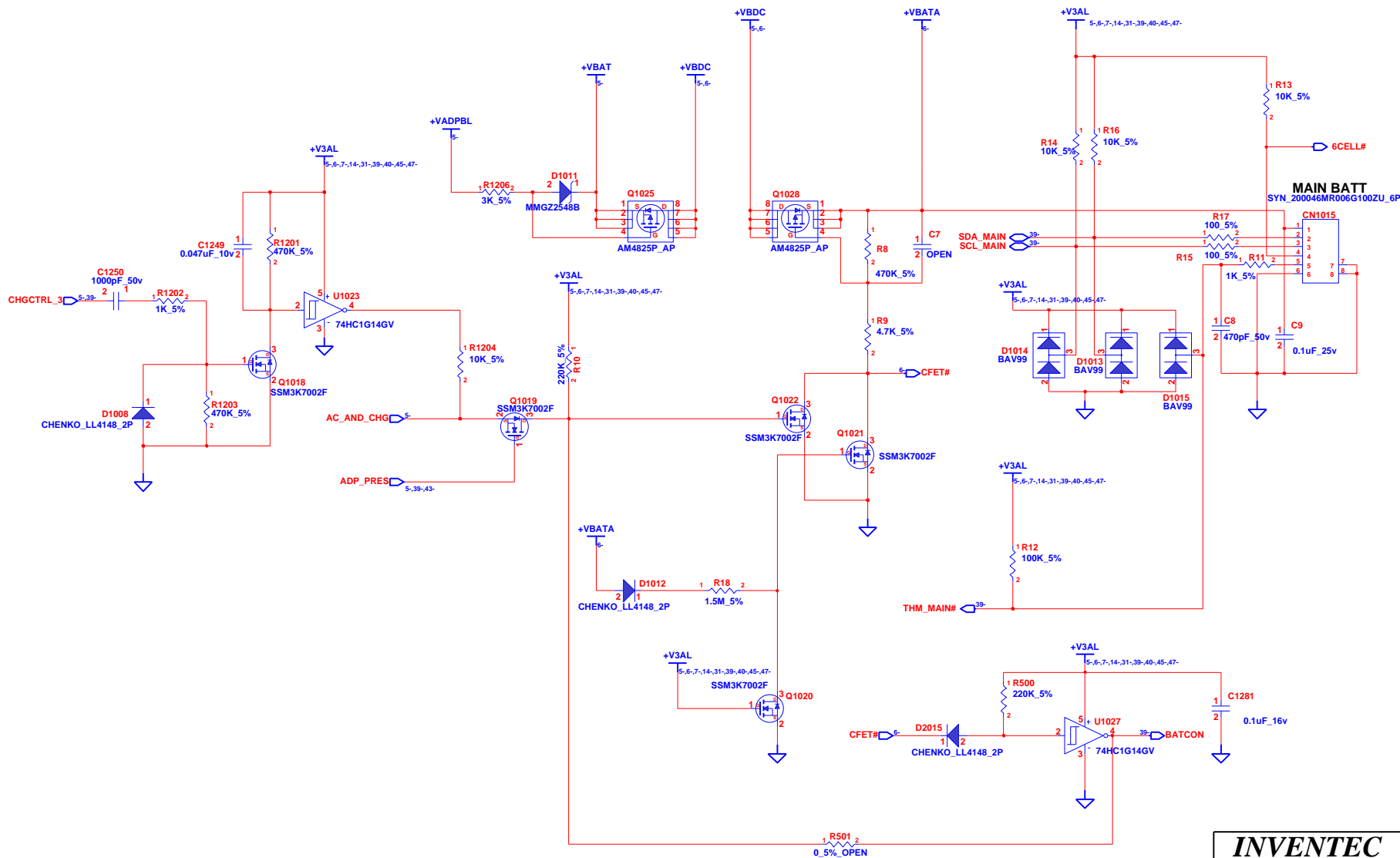
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S-SERIES - Discrete

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A21614	A03

CHANGE by *Drawer Name* 21-May-2008

SHEET 4 OF 54



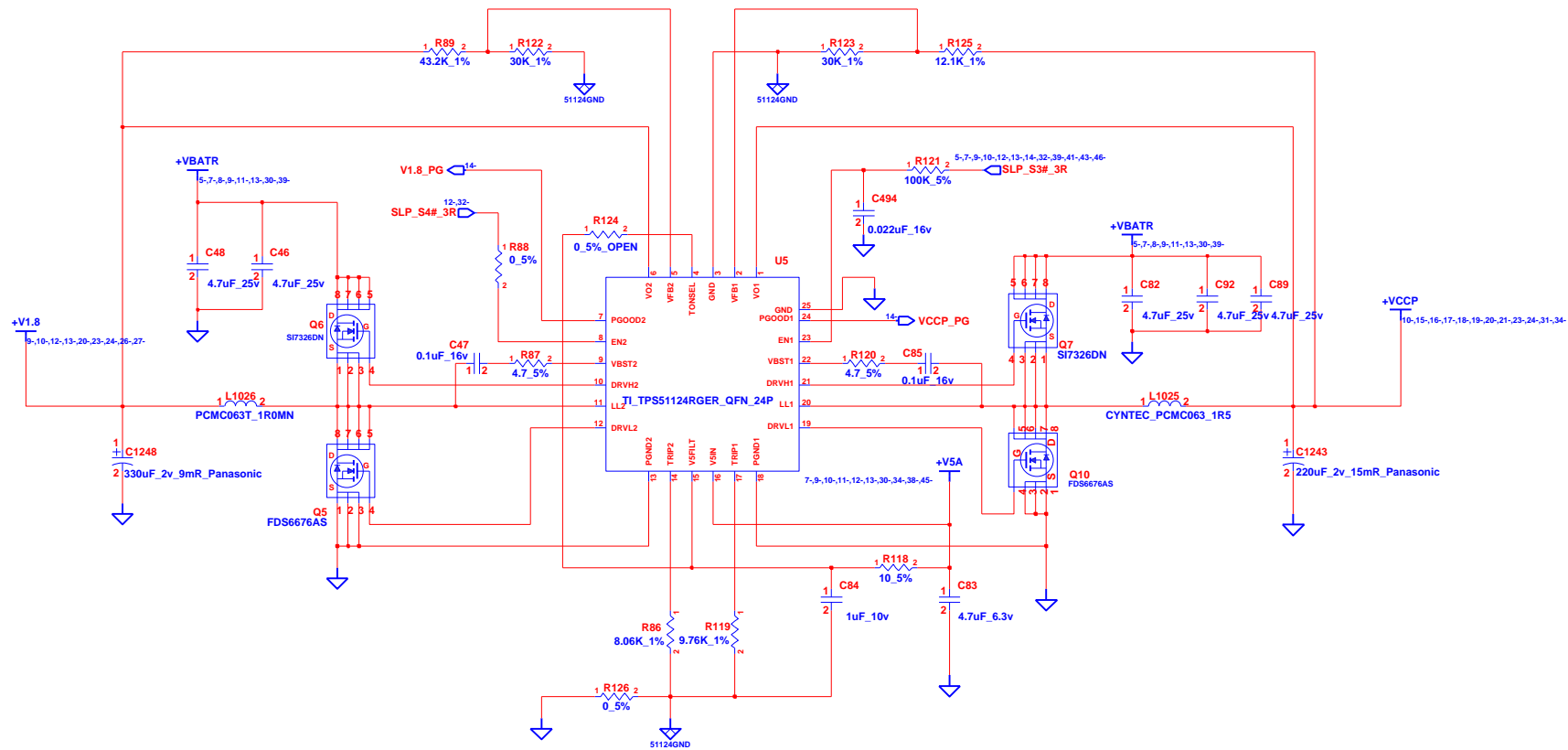


INVENTEC

TITLE S-SERIES - Discrete			
Selector & Battery CONN & Extend/B			
SIZE A3	CODE CS	DOC. NUMBER I310A21614	REV A03

CHANGE by *Drawer Name* 21-May-2008

SHEET 6 OF 54



INVENTEC			
TITLE S-SERIES - Discrete System Power(+V1.8/+VCCP)			
SIZE A3	CODE CS	DOC. NUMBER I310A21614	REV A03
CHANGE by Drawer Name		21-May-2008	SHEET 8 OF 54

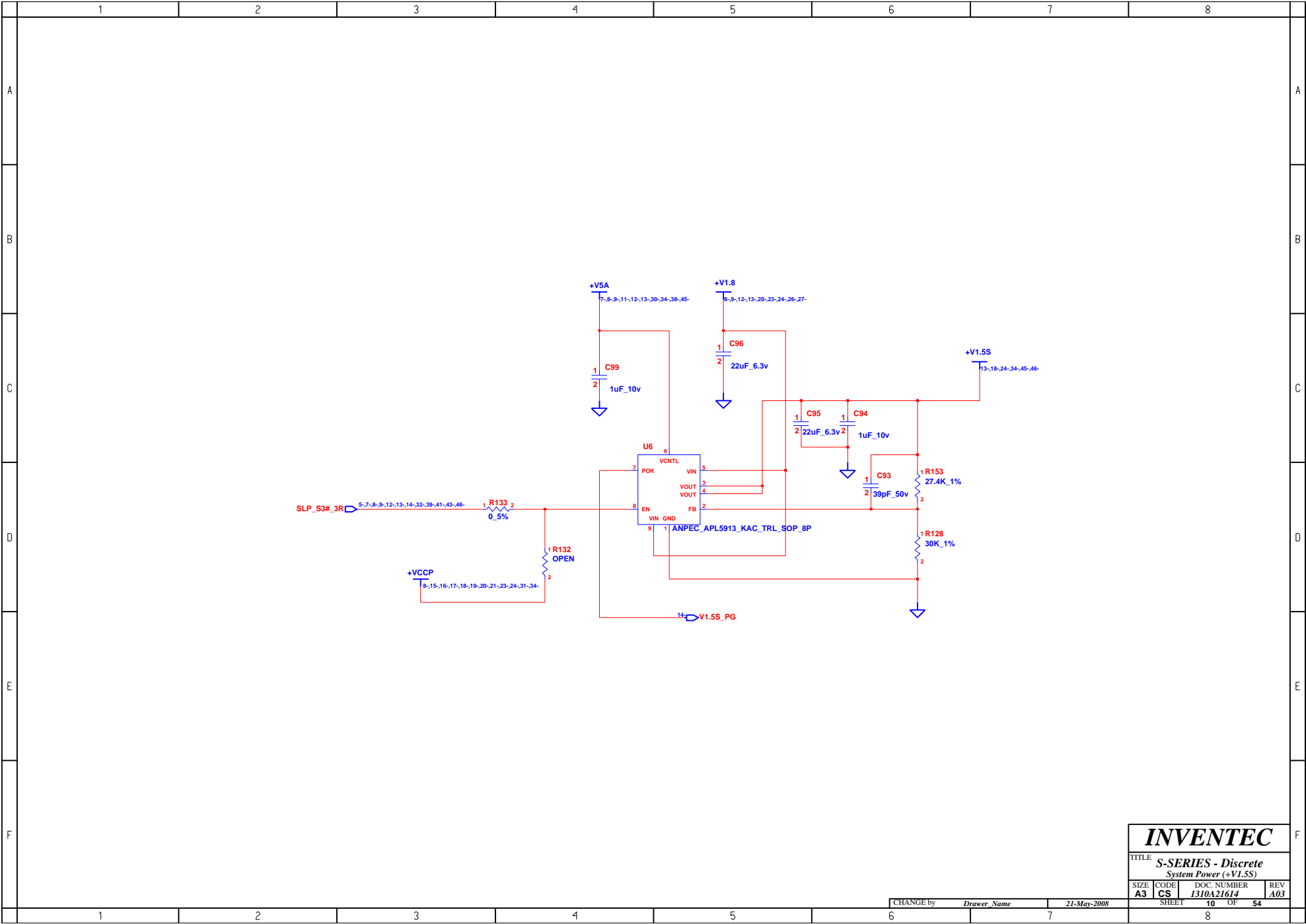
Truth Table:

POW_SW1	POW_SW0	+VDD_CORE
0	0	1.1V
0	1	1.0V
1	0	0.9V

Schematic Details:

- Power Input:** +VPCIE (pins 49, 50, 51) and +V1.8 (pins 8, 10, 12, 13, 20, 23, 24, 26, 27).
- Regulators:**
 - U13 (TI_TPS51511):** A DC-DC converter with pins for NC, VLD0, VLD0FB, GND, ODOFF, OD, COMP, VOSIW, TML-PAD, ENLDO, VSWFB, and VBST.
 - U14 (SI7336ADP):** A MOSFET driver with pins for VDD, VSS, VGS, and VDS.
 - U15 (SI7686DP_T1_E3):** A MOSFET with pins for G, D, S, and B.
- Capacitors:** Various electrolytic and ceramic capacitors are used for filtering and decoupling, including C362 (1uF_10v), C364 (22uF_6.3v), C363 (10uF_6.3v), C324 (0.1uF_16v), C322 (4.7uF_25v), C321 (4.7uF_25v), C323 (4.7uF_25v), C325 (4.7uF_6.3v), C326 (0.1uF_16v), C366 (0.1uF_16v), C365 (1000pF_50v), C319 (1000pF_50v), C306 (9.53K_1%), C305 (30K_1%), C304 (1K_5%), C303 (0.5%), C302 (0.5%), C301 (20K_1%), C300 (9.31K_1%), C307 (0.5%), C308 (0.5%), C309 (10K_1%), C310 (75K_1%), C311 (220uF_2.5v), C312 (330uF_2v_9mR_Panasonic), C313 (1000pF_50v), C314 (1K_5%), C315 (1K_5%), C316 (1K_5%), C317 (1K_5%), C318 (1K_5%), C319 (1000pF_50v), C320 (220uF_2.5v), C321 (4.7uF_25v), C322 (4.7uF_25v), C323 (4.7uF_25v), C324 (0.1uF_16v), C325 (4.7uF_6.3v), C326 (0.1uF_16v), C327 (0.1uF_16v), C328 (0.1uF_16v), C329 (0.1uF_16v), C330 (0.1uF_16v), C331 (0.1uF_16v), C332 (0.1uF_16v), C333 (0.1uF_16v), C334 (0.1uF_16v), C335 (0.1uF_16v), C336 (0.1uF_16v), C337 (0.1uF_16v), C338 (0.1uF_16v), C339 (0.1uF_16v), C340 (0.1uF_16v), C341 (0.1uF_16v), C342 (0.1uF_16v), C343 (0.1uF_16v), C344 (0.1uF_16v), C345 (0.1uF_16v), C346 (0.1uF_16v), C347 (0.1uF_16v), C348 (0.1uF_16v), C349 (0.1uF_16v), C350 (0.1uF_16v), C351 (0.1uF_16v), C352 (0.1uF_16v), C353 (0.1uF_16v), C354 (0.1uF_16v), C355 (0.1uF_16v), C356 (0.1uF_16v), C357 (0.1uF_16v), C358 (0.1uF_16v), C359 (0.1uF_16v), C360 (0.1uF_16v), C361 (1000pF_50v), C362 (1uF_10v), C363 (10uF_6.3v), C364 (22uF_6.3v), C365 (1000pF_50v), C366 (0.1uF_16v), C367 (0.1uF_16v), C368 (0.1uF_16v), C369 (0.1uF_16v), C370 (0.1uF_16v), C371 (0.1uF_16v), C372 (0.1uF_16v), C373 (0.1uF_16v), C374 (0.1uF_16v), C375 (0.1uF_16v), C376 (0.1uF_16v), C377 (0.1uF_16v), C378 (0.1uF_16v), C379 (0.1uF_16v), C380 (0.1uF_16v), C381 (0.1uF_16v), C382 (0.1uF_16v), C383 (0.1uF_16v), C384 (0.1uF_16v), C385 (0.1uF_16v), C386 (0.1uF_16v), C387 (0.1uF_16v), C388 (0.1uF_16v), C389 (0.1uF_16v), C390 (0.1uF_16v), C391 (0.1uF_16v), C392 (0.1uF_16v), C393 (0.1uF_16v), C394 (0.1uF_16v), C395 (0.1uF_16v), C396 (0.1uF_16v), C397 (0.1uF_16v), C398 (0.1uF_16v), C399 (0.1uF_16v), C400 (0.1uF_16v), C401 (0.1uF_16v), C402 (0.1uF_16v), C403 (0.1uF_16v), C404 (0.1uF_16v), C405 (0.1uF_16v), C406 (0.1uF_16v), C407 (0.1uF_16v), C408 (0.1uF_16v), C409 (0.1uF_16v), C410 (0.1uF_16v), C411 (0.1uF_16v), C412 (0.1uF_16v), C413 (0.1uF_16v), C414 (0.1uF_16v), C415 (0.1uF_16v), C416 (0.1uF_16v), C417 (0.1uF_16v), C418 (0.1uF_16v), C419 (0.1uF_16v), C420 (0.1uF_16v), C421 (0.1uF_16v), C422 (0.1uF_16v), C423 (0.1uF_16v), C424 (0.1uF_16v), C425 (0.1uF_16v), C426 (0.1uF_16v), C427 (0.1uF_16v), C428 (0.1uF_16v), C429 (0.1uF_16v), C430 (0.1uF_16v), C431 (0.1uF_16v), C432 (0.1uF_16v), C433 (0.1uF_16v), C434 (0.1uF_16v), C435 (0.1uF_16v), C436 (0.1uF_16v), C437 (0.1uF_16v), C438 (0.1uF_16v), C439 (0.1uF_16v), C440 (0.1uF_16v), C441 (0.1uF_16v), C442 (0.1uF_16v), C443 (0.1uF_16v), C444 (0.1uF_16v), C445 (0.1uF_16v), C446 (0.1uF_16v), C447 (0.1uF_16v), C448 (0.1uF_16v), C449 (0.1uF_16v), C450 (0.1uF_16v), C451 (0.1uF_16v), C452 (0.1uF_16v), C453 (0.1uF_16v), C454 (0.1uF_16v), C455 (0.1uF_16v), C456 (0.1uF_16v), C457 (0.1uF_16v), C458 (0.1uF_16v), C459 (0.1uF_16v), C460 (0.1uF_16v), C461 (0.1uF_16v), C462 (0.1uF_16v), C463 (0.1uF_16v), C464 (0.1uF_16v), C465 (0.1uF_16v), C466 (0.1uF_16v), C467 (0.1uF_16v), C468 (0.1uF_16v), C469 (0.1uF_16v), C470 (0.1uF_16v), C471 (0.1uF_16v), C472 (0.1uF_16v), C473 (0.1uF_16v), C474 (0.1uF_16v), C475 (0.1uF_16v), C476 (0.1uF_16v), C477 (0.1uF_16v), C478 (0.1uF_16v), C479 (0.1uF_16v), C480 (0.1uF_16v), C481 (0.1uF_16v), C482 (0.1uF_16v), C483 (0.1uF_16v), C484 (0.1uF_16v), C485 (0.1uF_16v), C486 (0.1uF_16v), C487 (0.1uF_16v), C488 (0.1uF_16v), C489 (0.1uF_16v), C490 (0.1uF_16v), C491 (0.1uF_16v), C492 (0.1uF_16v), C493 (0.1uF_16v), C494 (0.1uF_16v), C495 (0.1uF_16v), C496 (0.1uF_16v), C497 (0.1uF_16v), C498 (0.1uF_16v), C499 (0.1uF_16v), C500 (0.1uF_16v), C501 (0.1uF_16v), C502 (0.1uF_16v), C503 (0.1uF_16v), C504 (0.1uF_16v), C505 (0.1uF_16v), C506 (0.1uF_16v), C507 (0.1uF_16v), C508 (0.1uF_16v), C509 (0.1uF_16v), C510 (0.1uF_16v), C511 (0.1uF_16v), C512 (0.1uF_16v), C513 (0.1uF_16v), C514 (0.1uF_16v), C515 (0.1uF_16v), C516 (0.1uF_16v), C517 (0.1uF_16v), C518 (0.1uF_16v), C519 (0.1uF_16v), C520 (0.1uF_16v), C521 (0.1uF_16v), C522 (0.1uF_16v), C523 (0.1uF_16v), C524 (0.1uF_16v), C525 (0.1uF_16v), C526 (0.1uF_16v), C527 (0.1uF_16v), C528 (0.1uF_16v), C529 (0.1uF_16

CS	1310A21614	A03
SHEET	9	OF 54



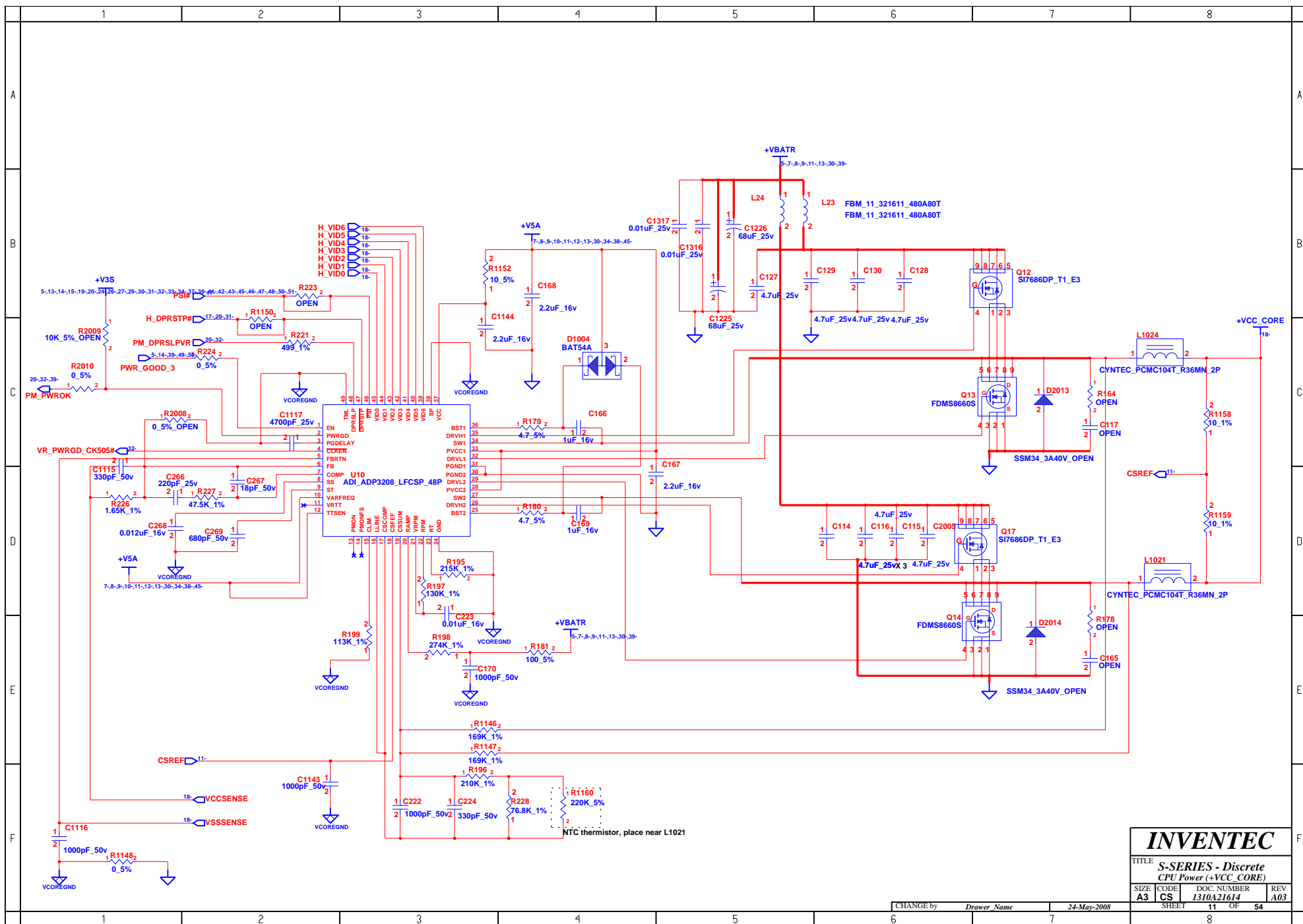
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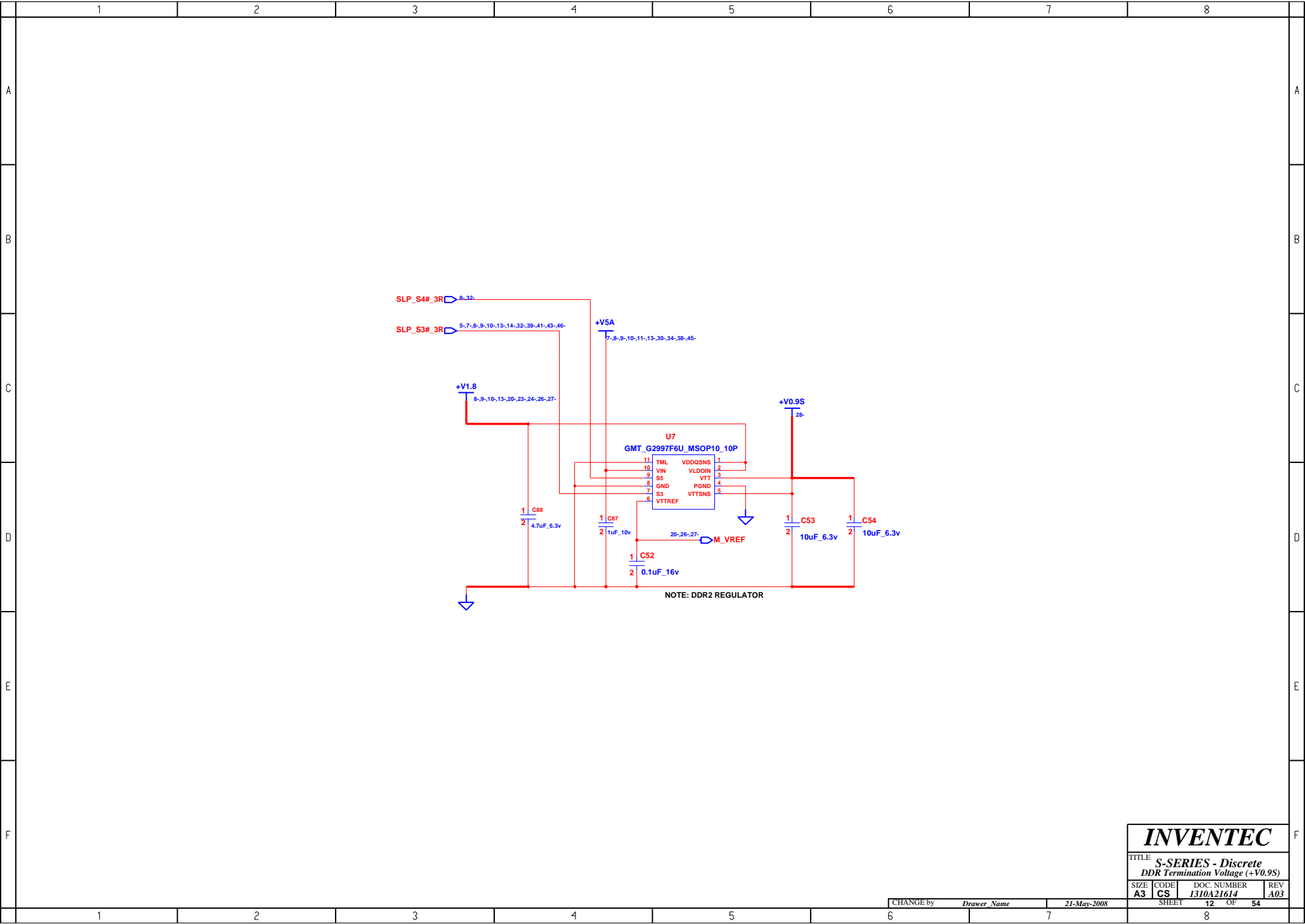
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System Power (+V1.5S)

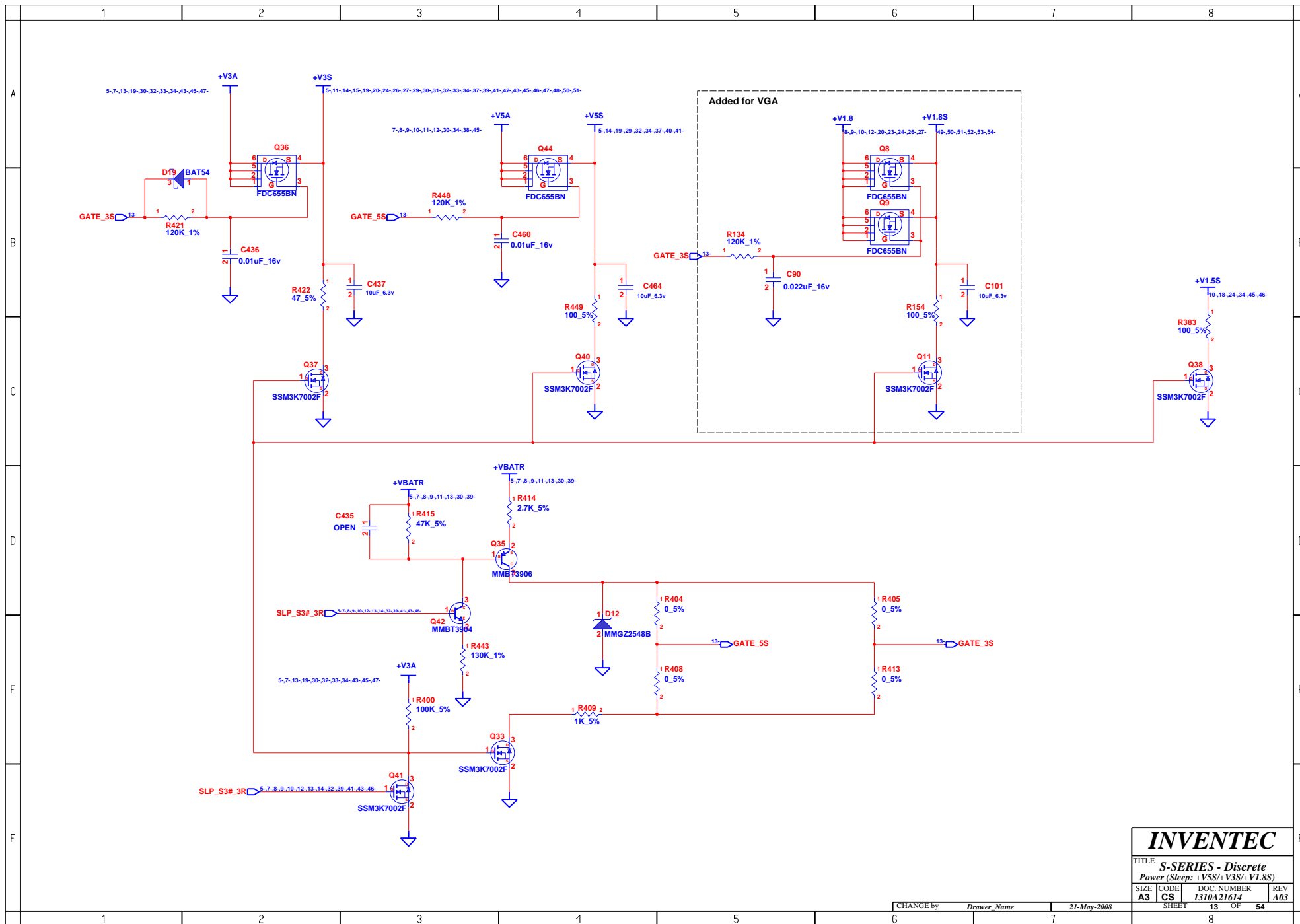
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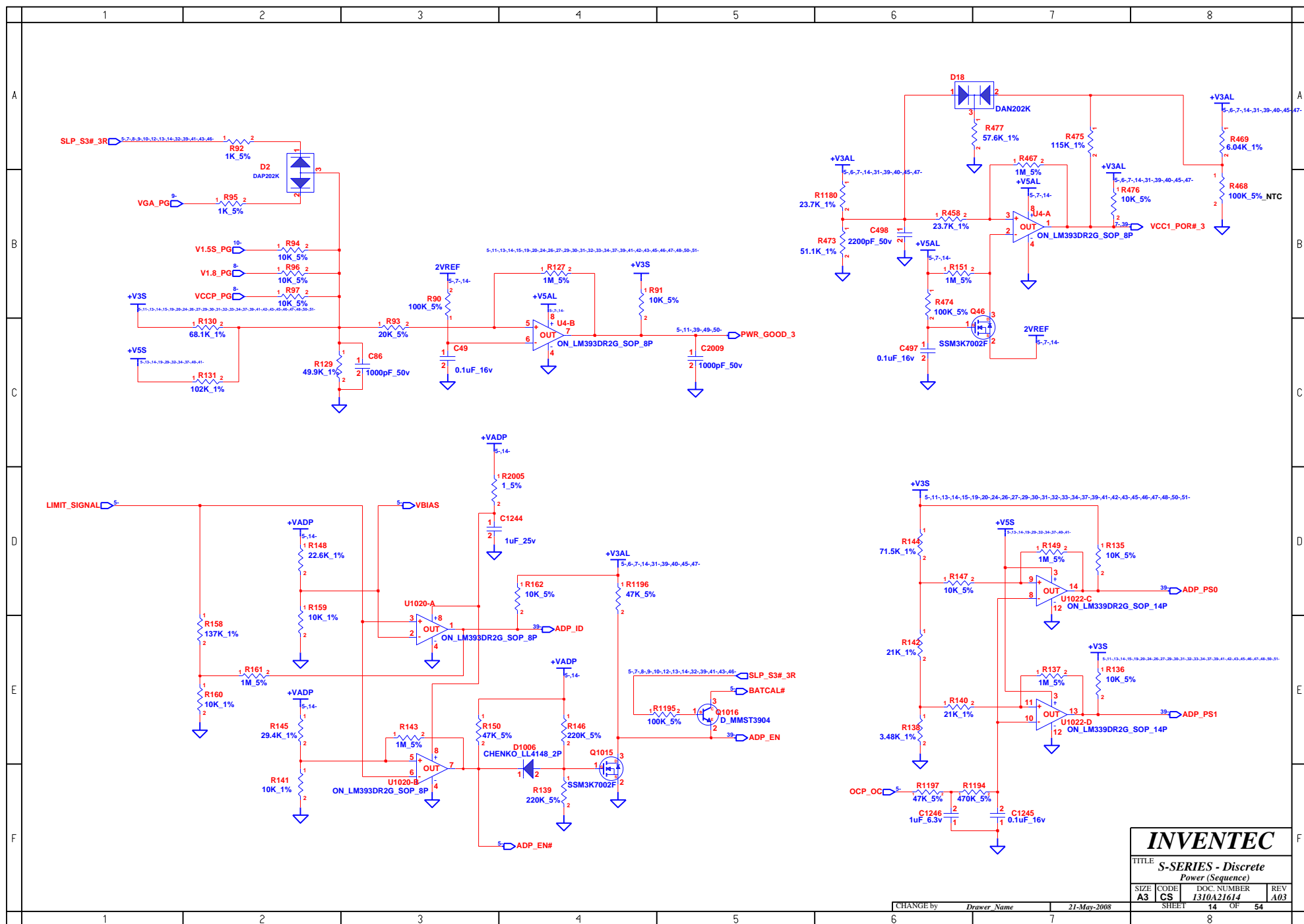
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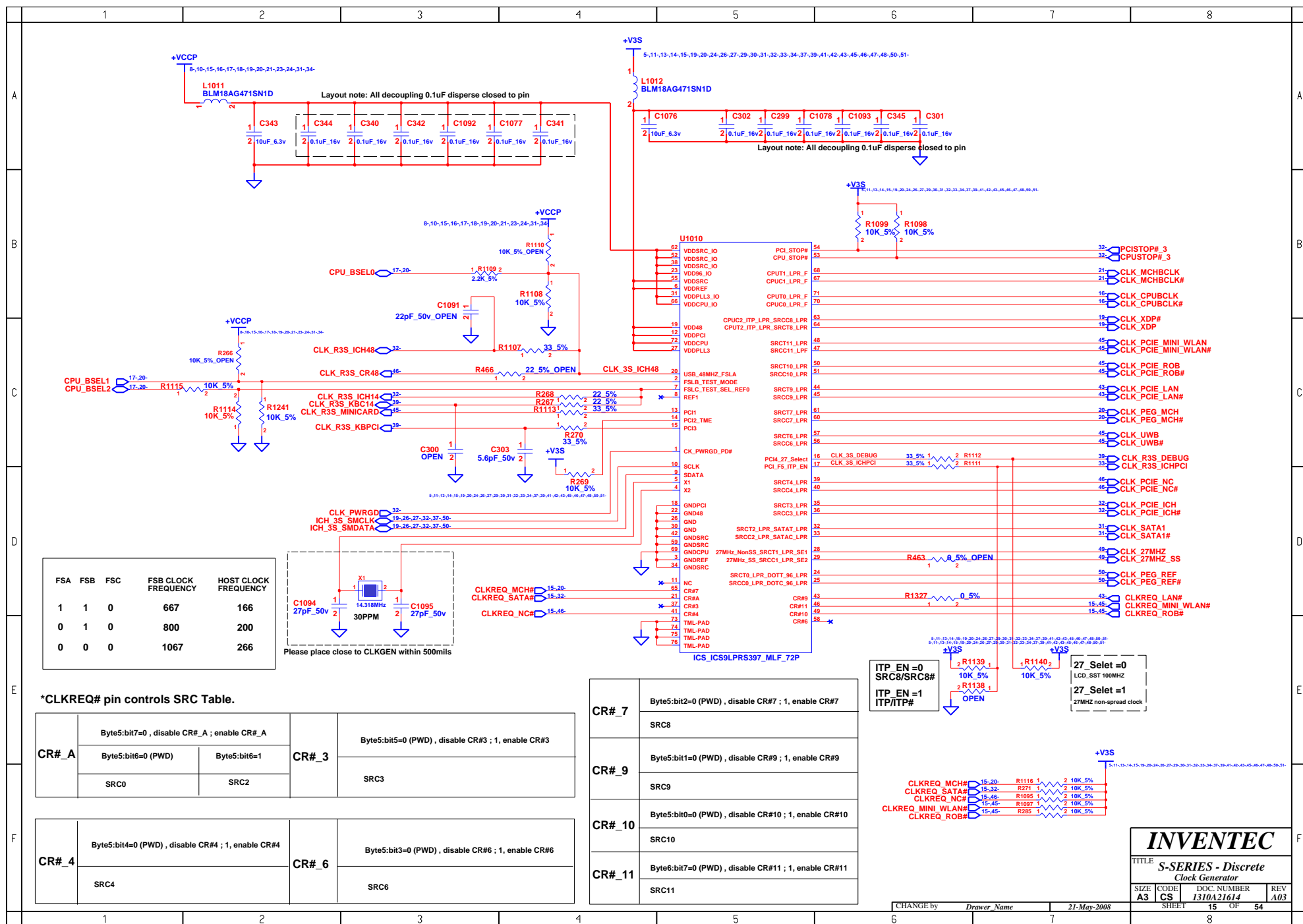
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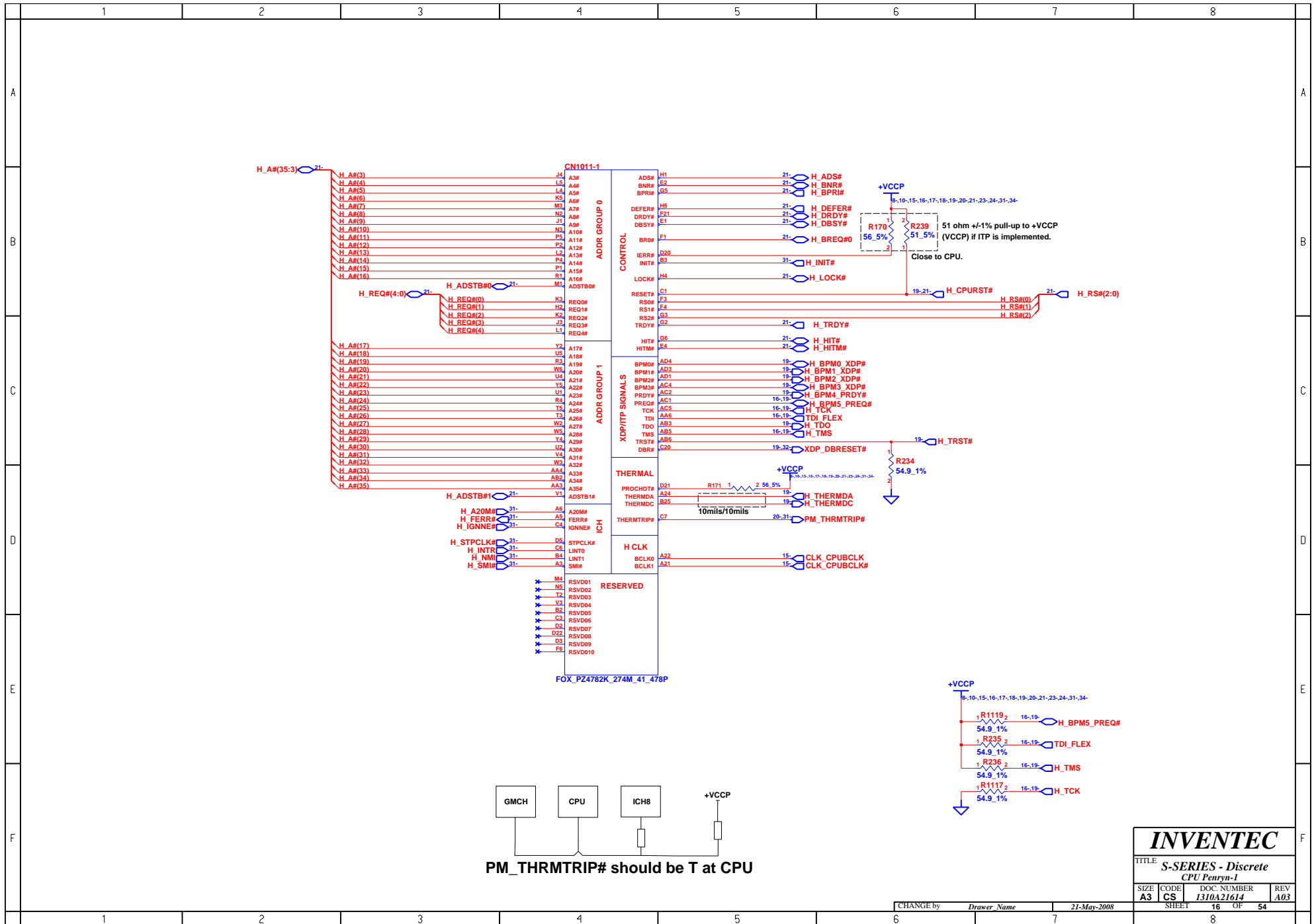


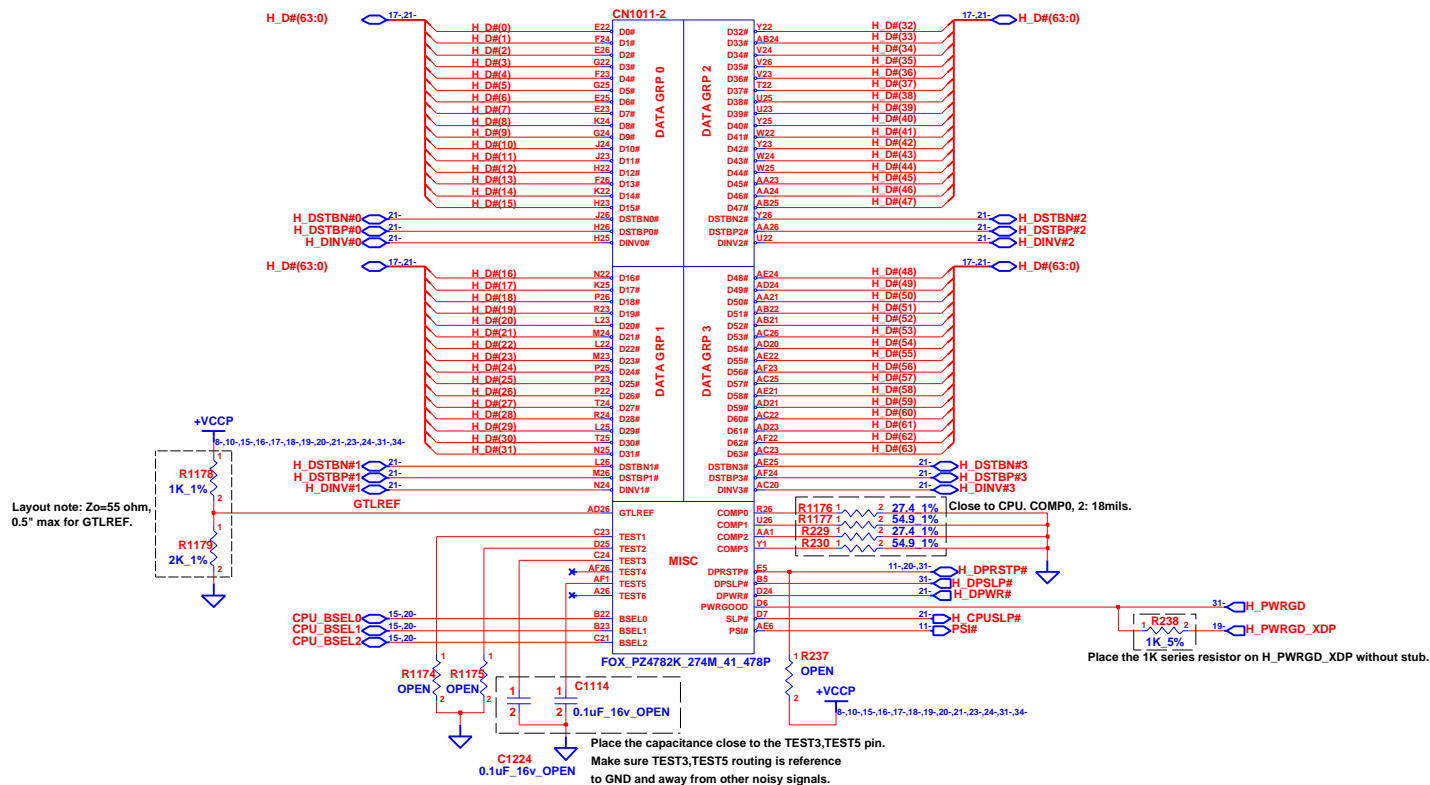












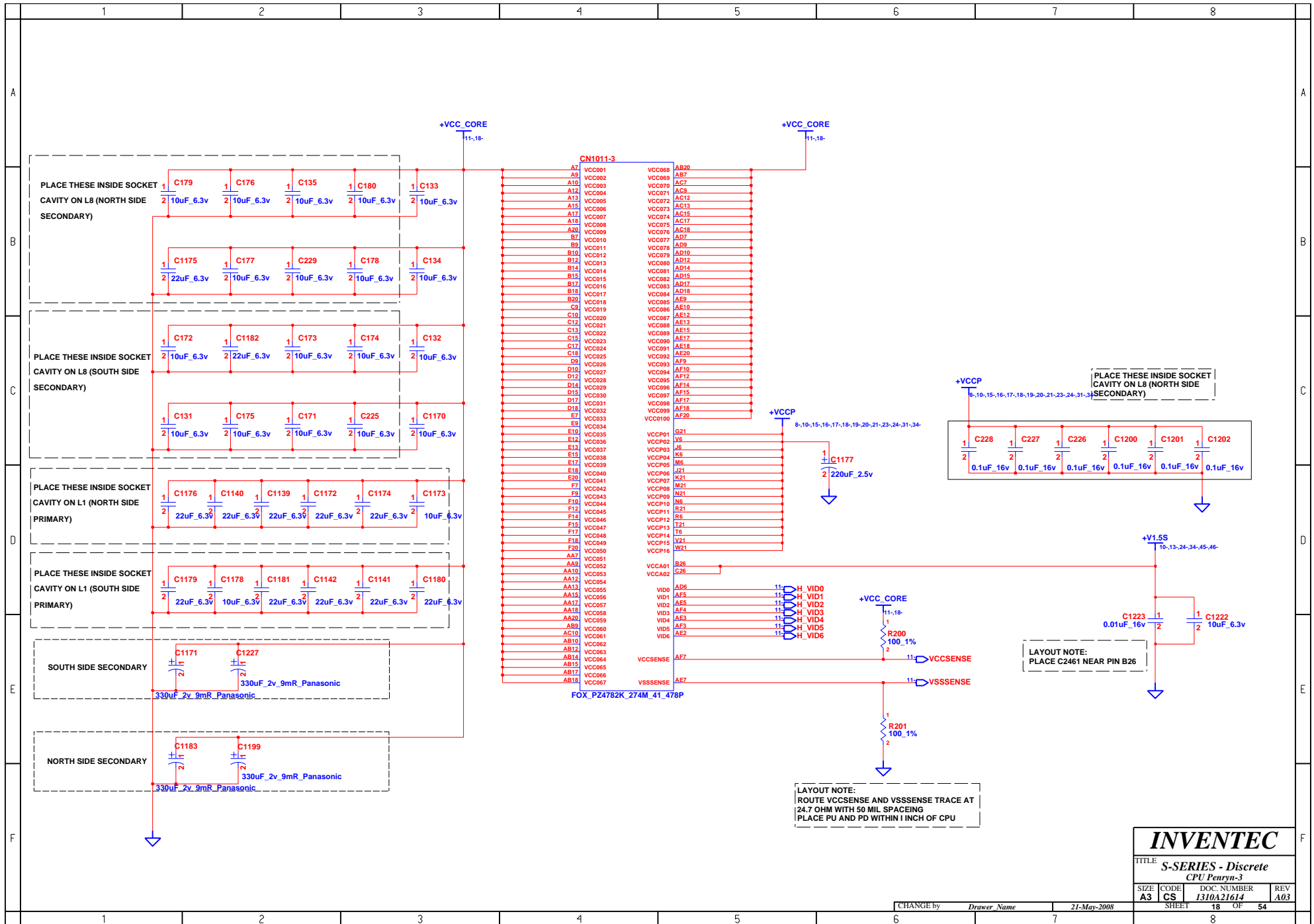
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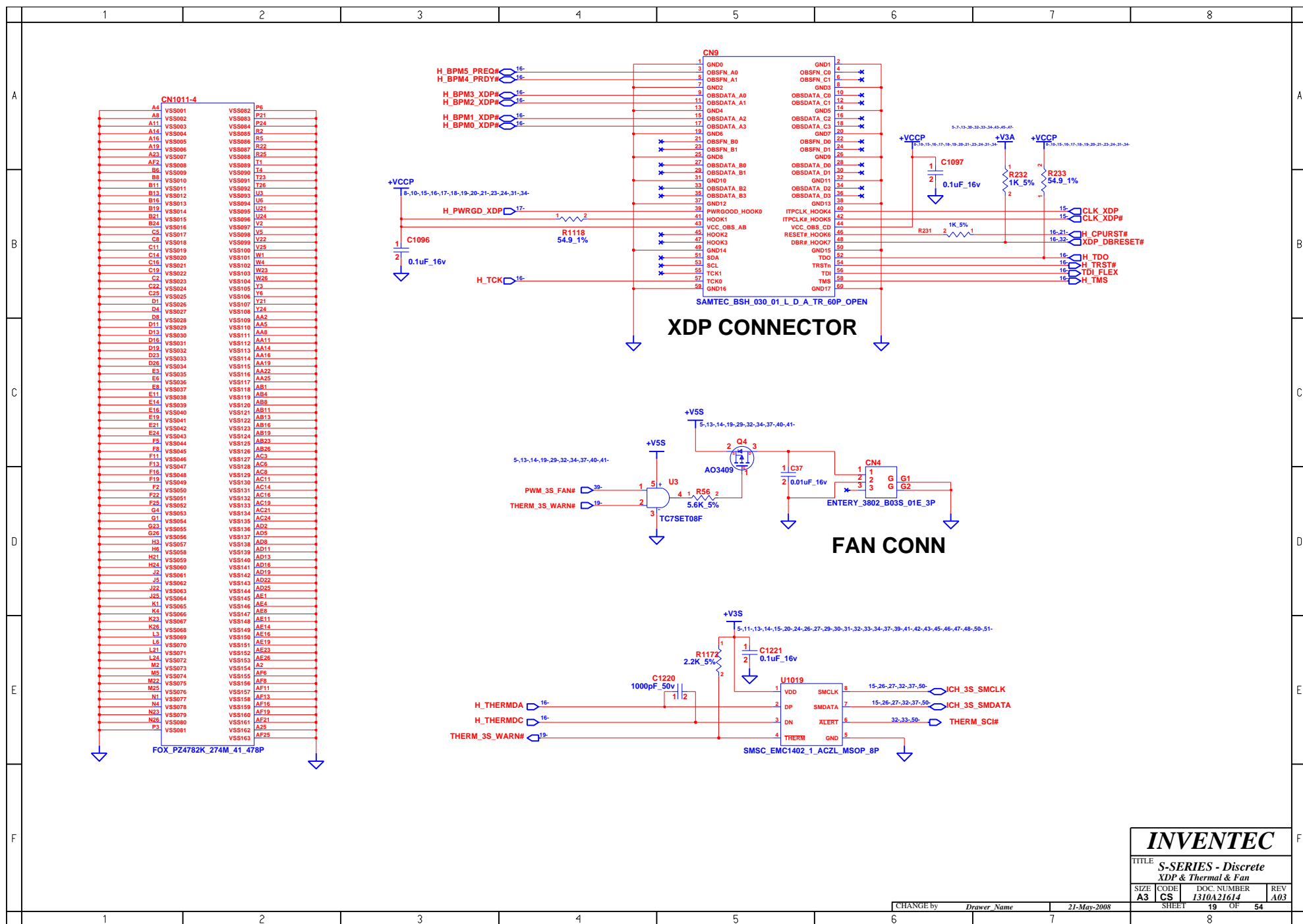
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CPU Penryn-2

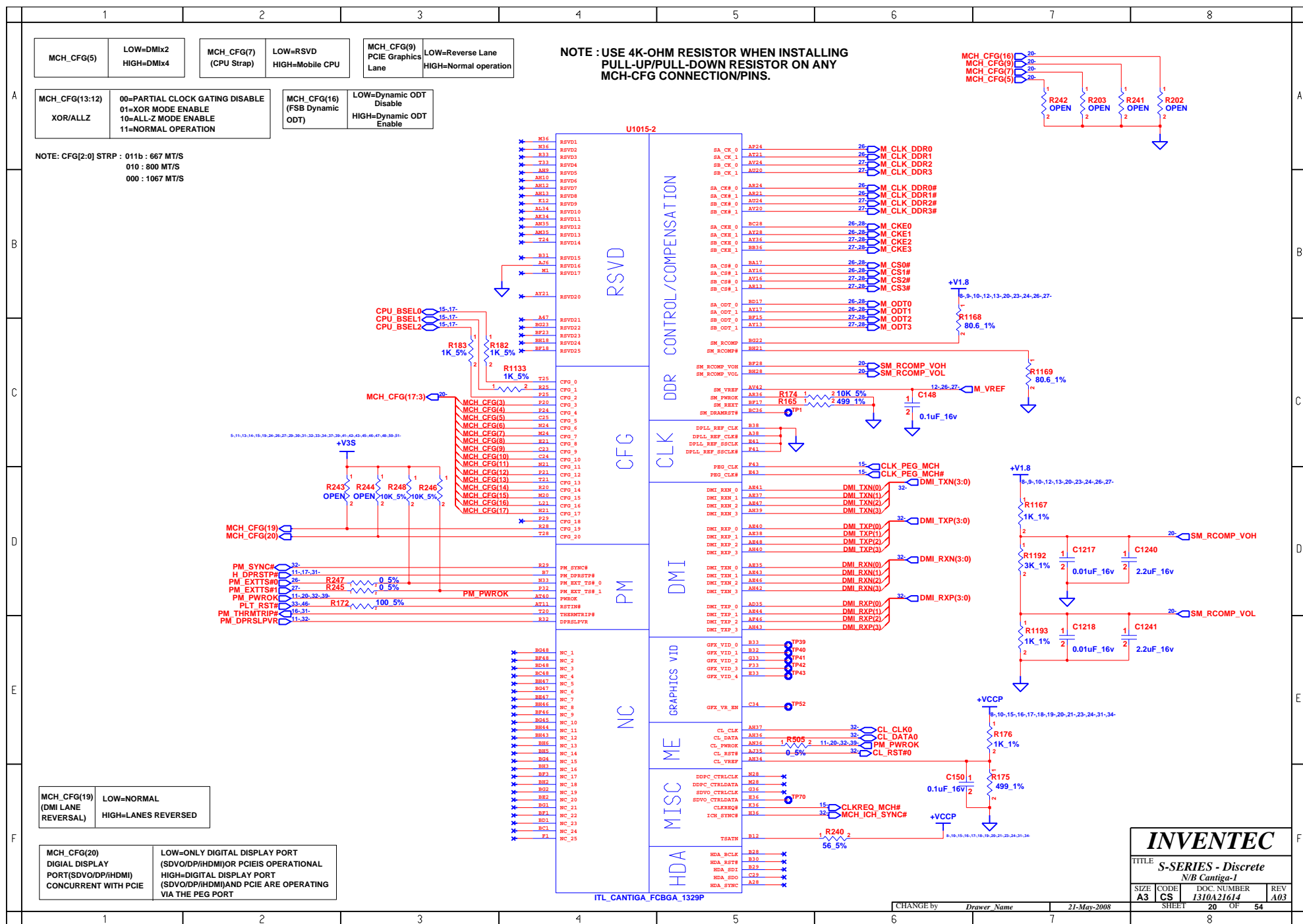
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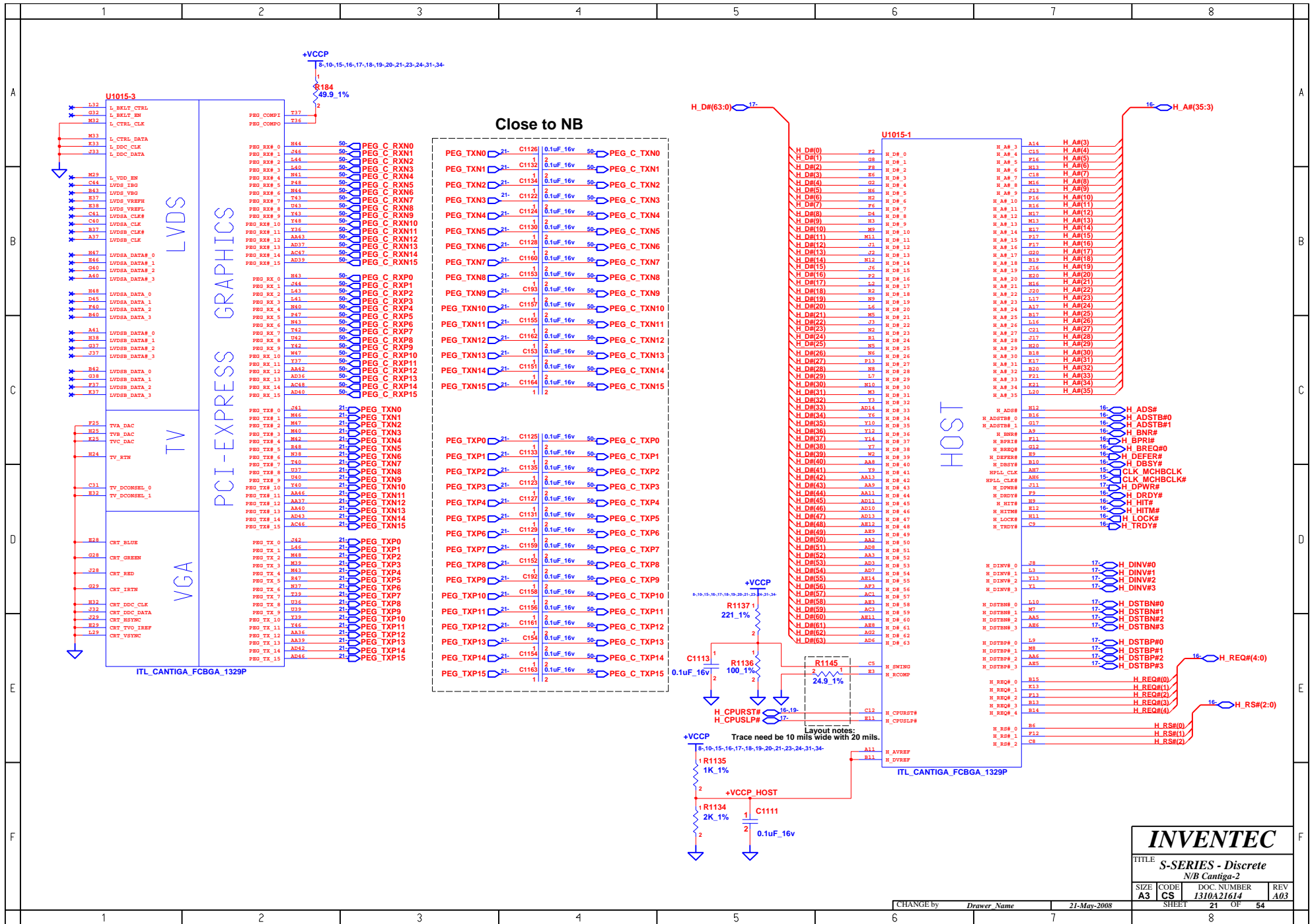
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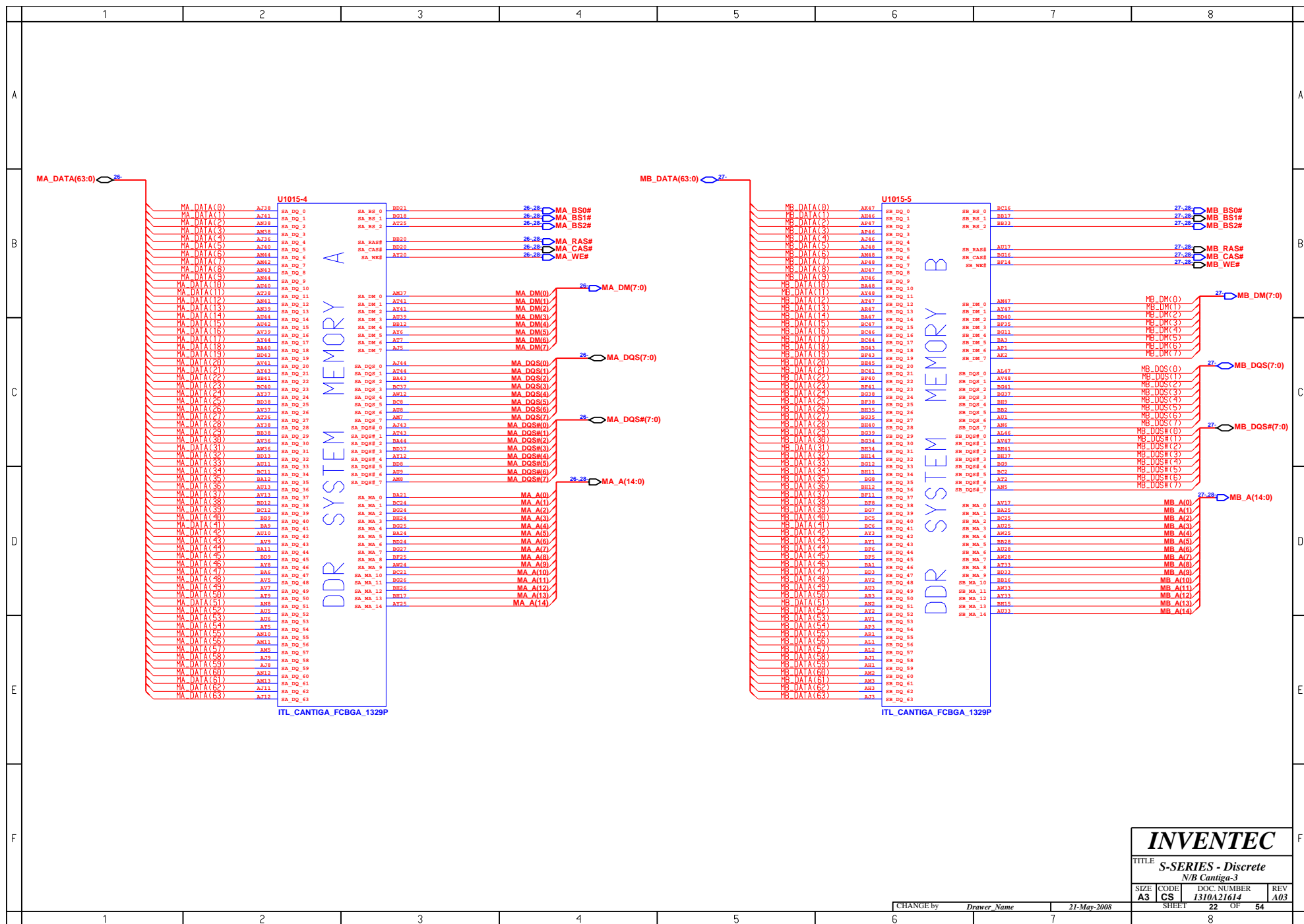
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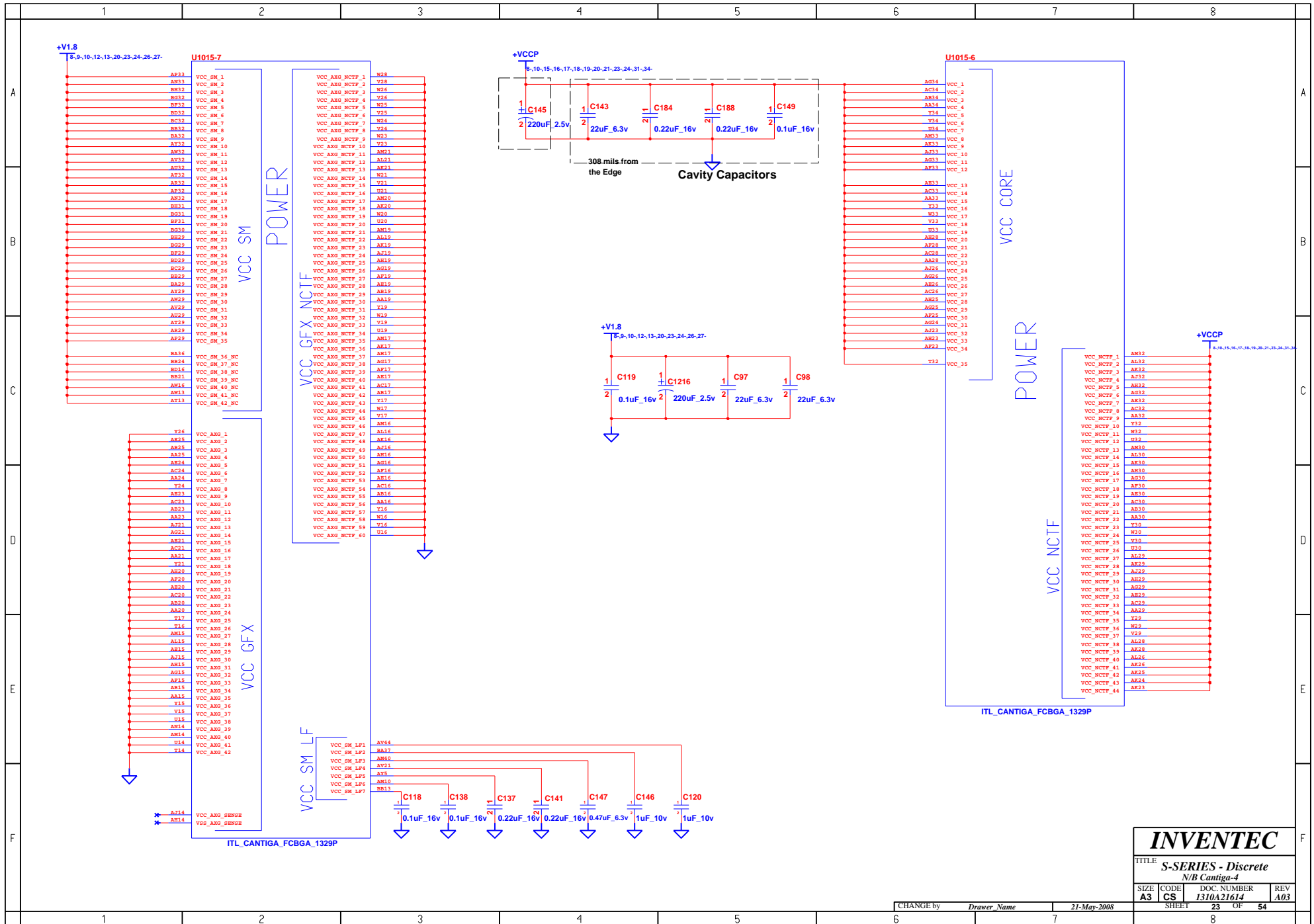












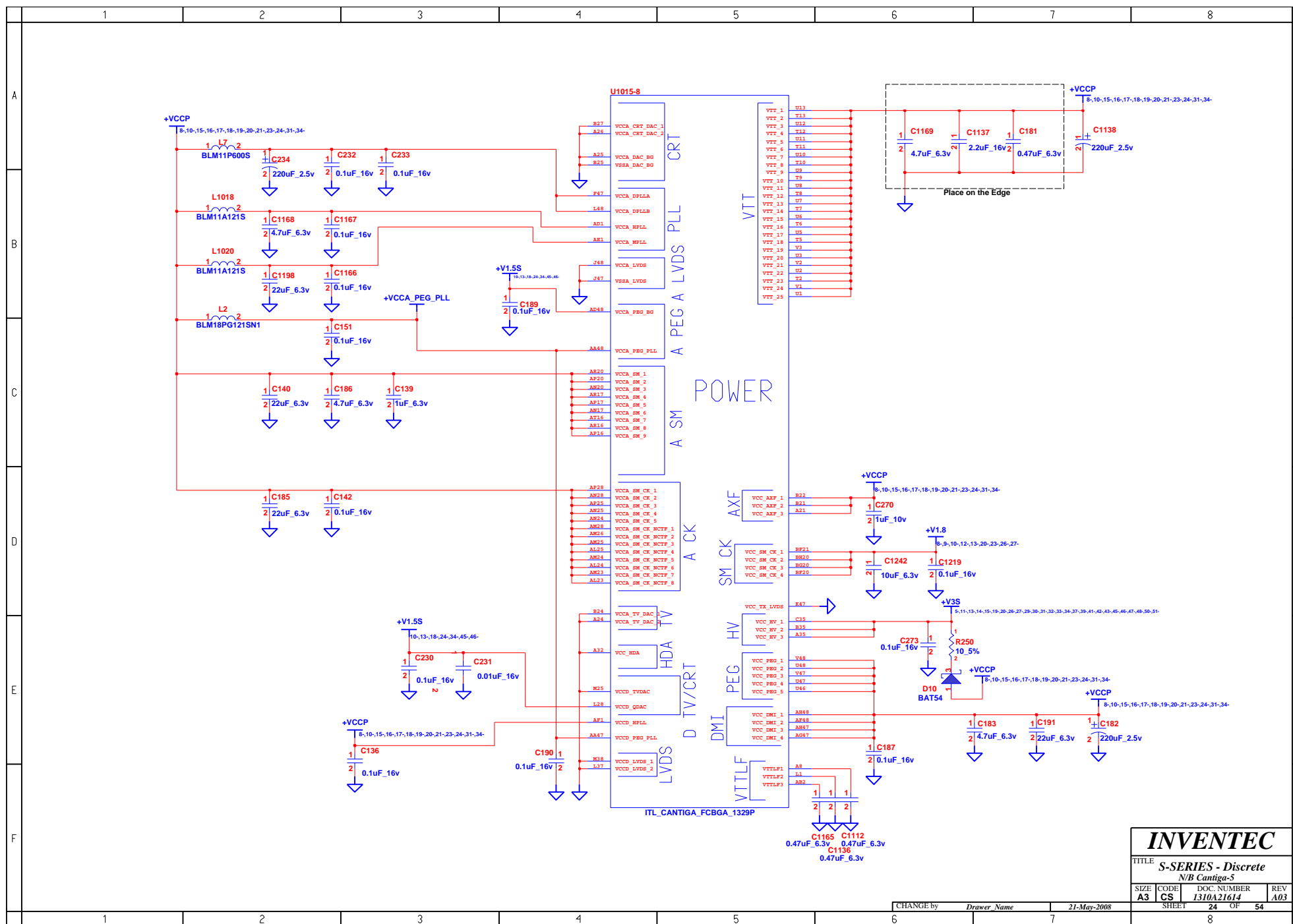
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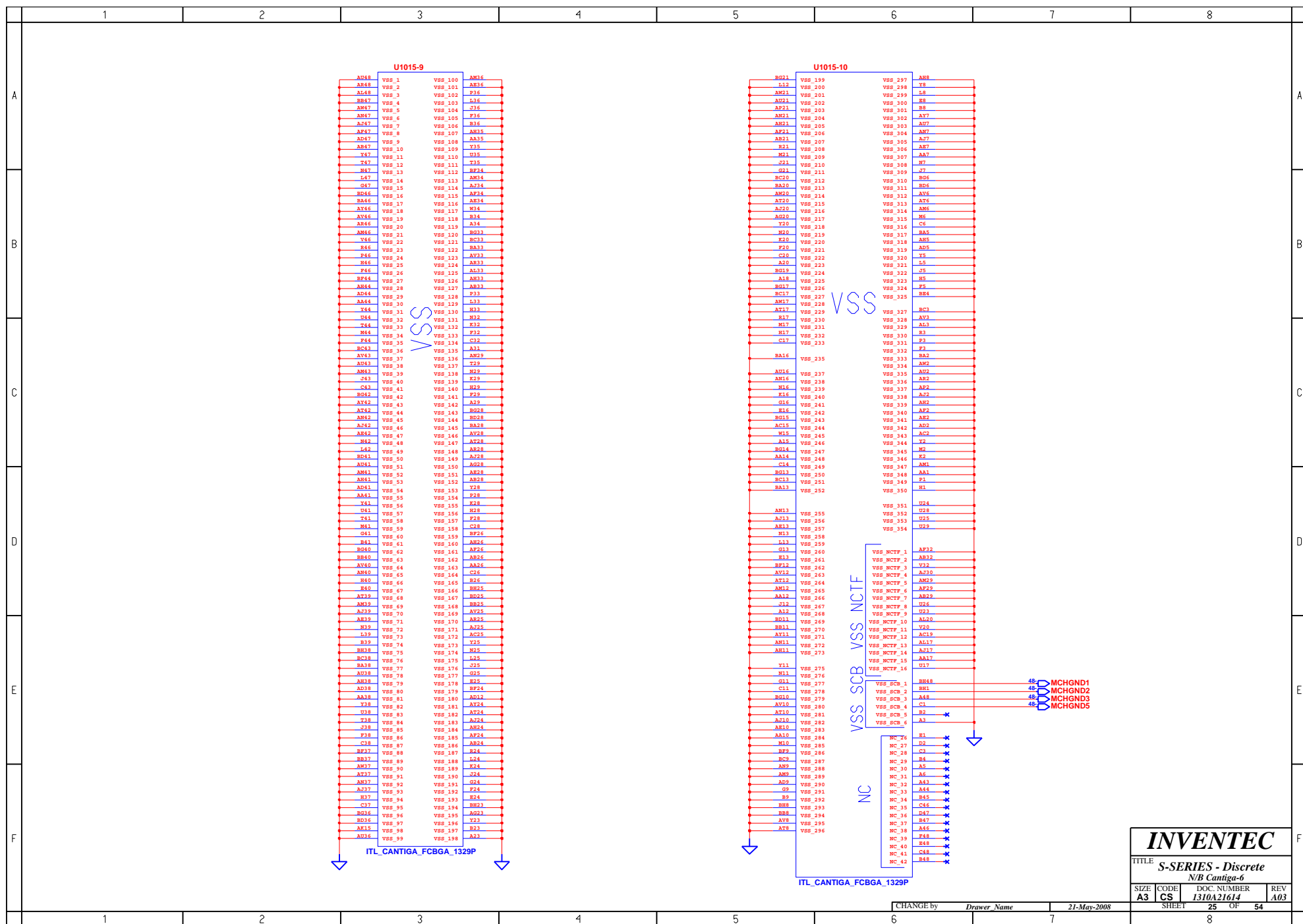
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S-SERIES - Discrete
N/B Cantiga-4

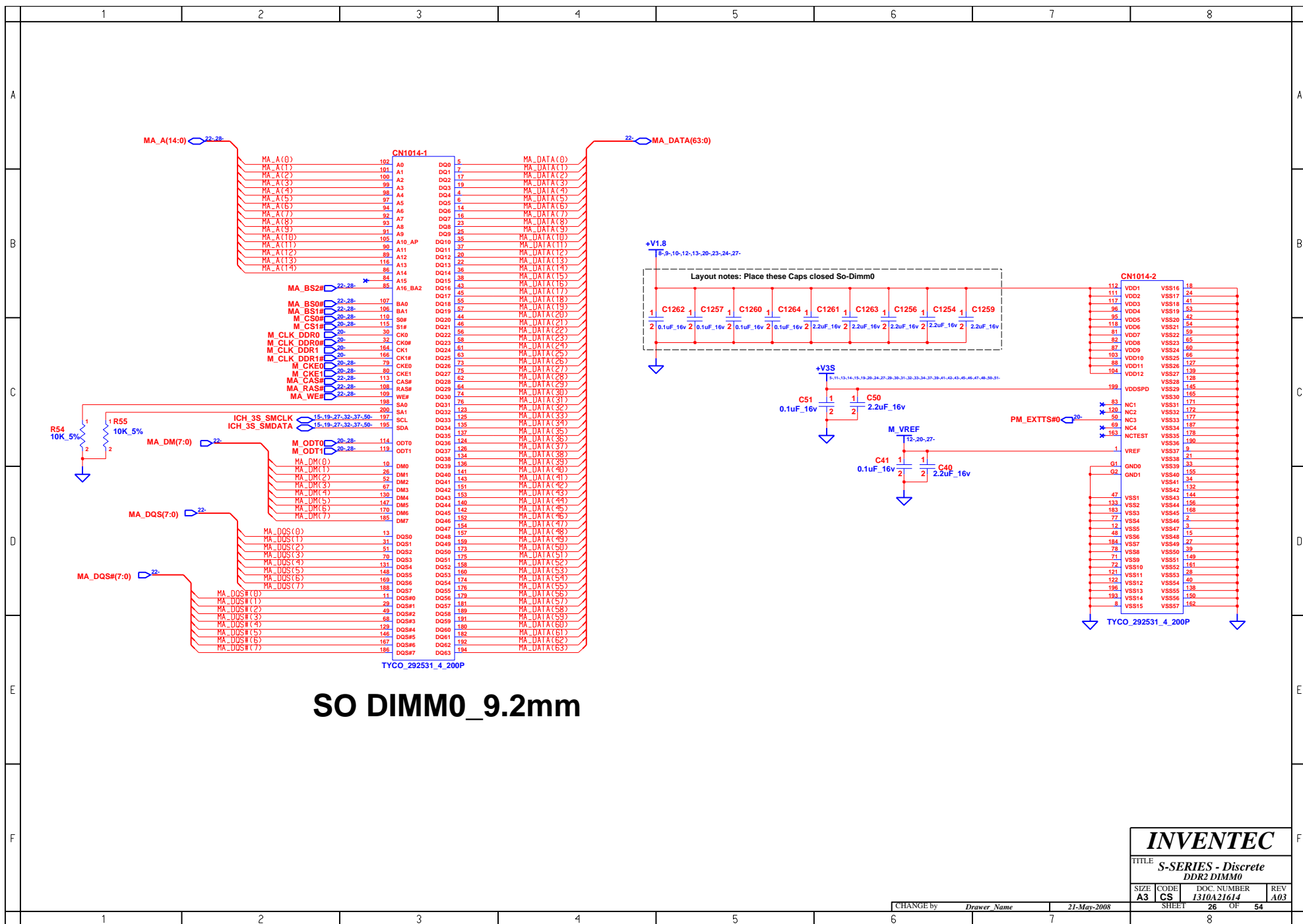
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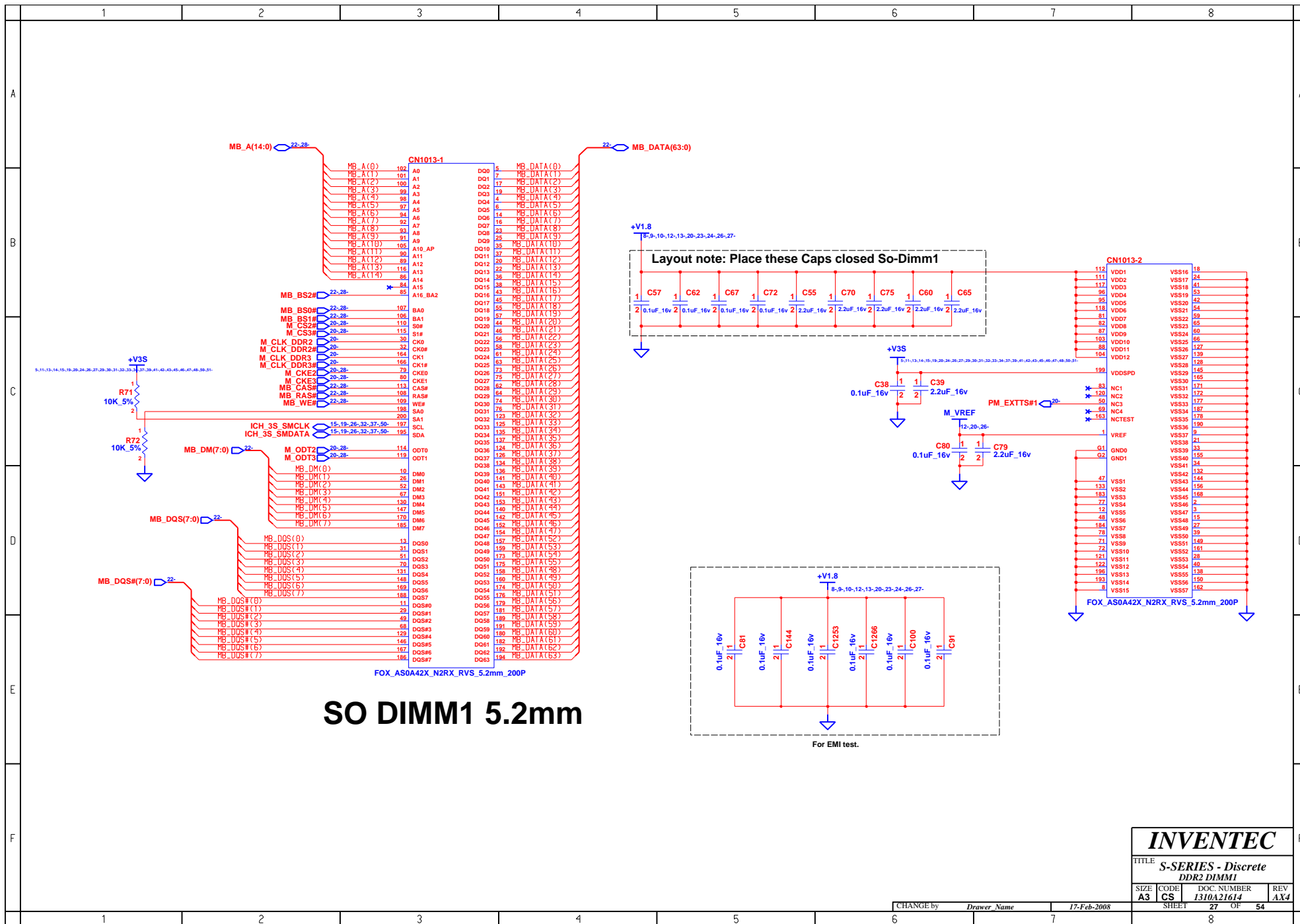
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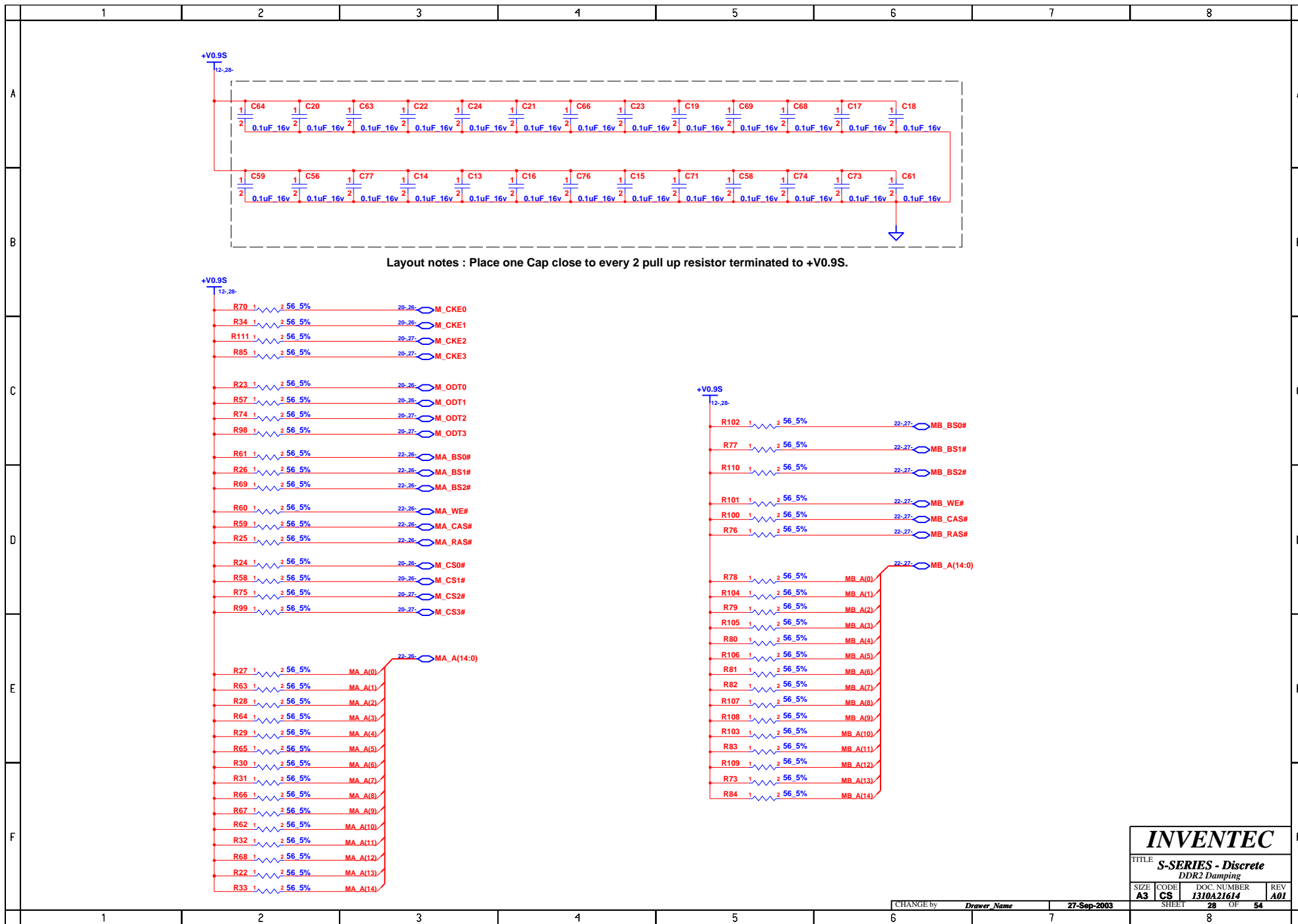
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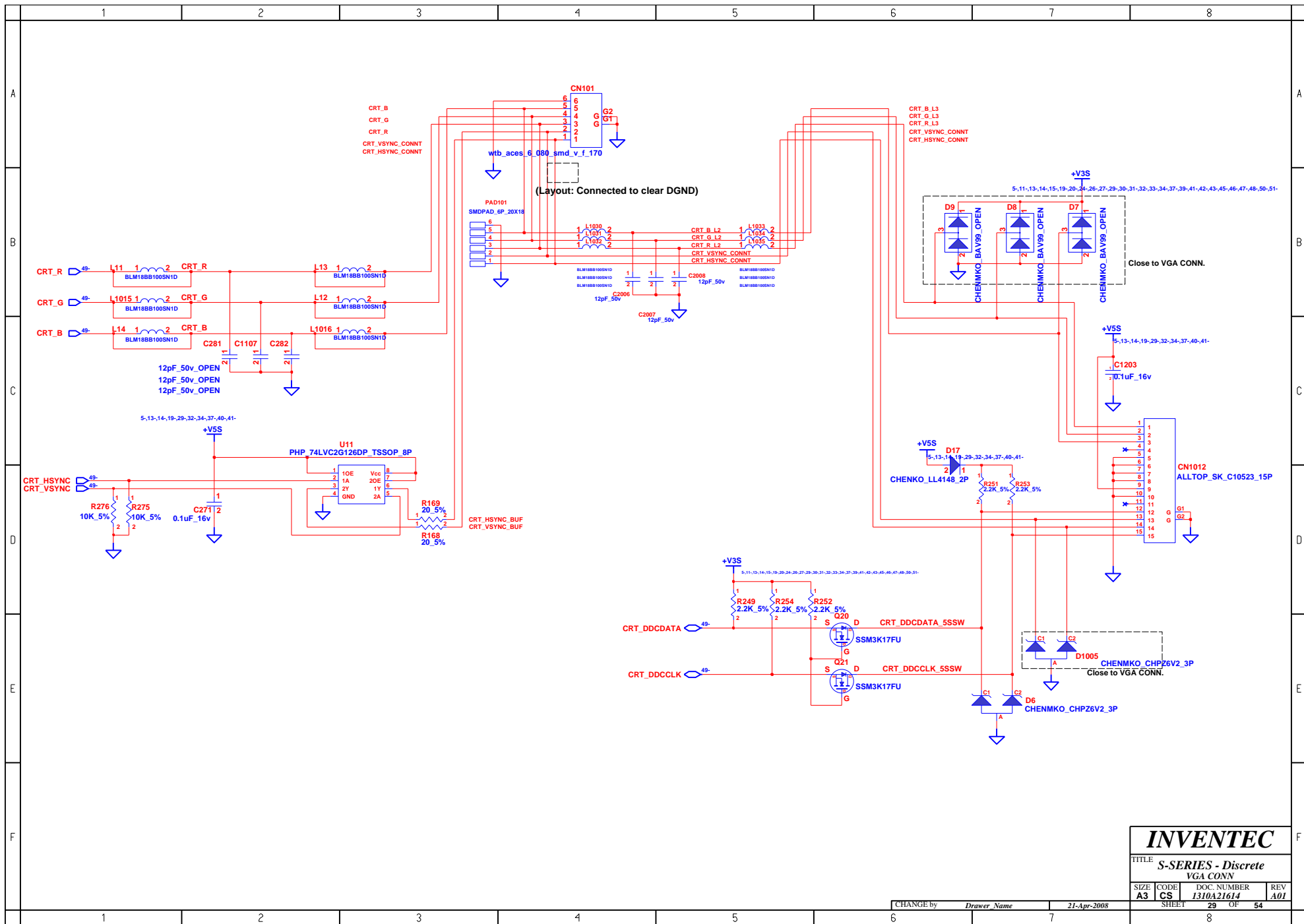












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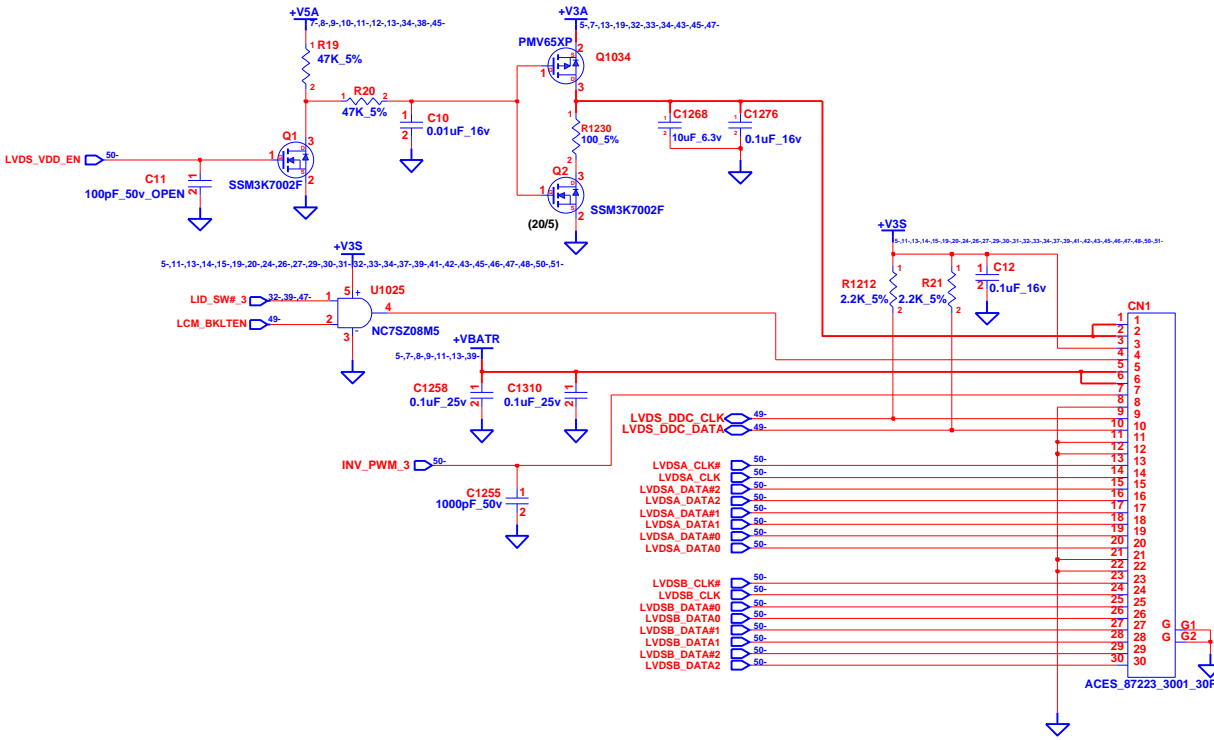
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**S-SERIES - Discrete
VGA CONN**

SIZE A3	CODE CS	DOC. NUMBER I310A21614	REV A01
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CHANGE by *Drawer Name* 21-Apr-2008

SHEET 29 OF 54

Place closed to connector



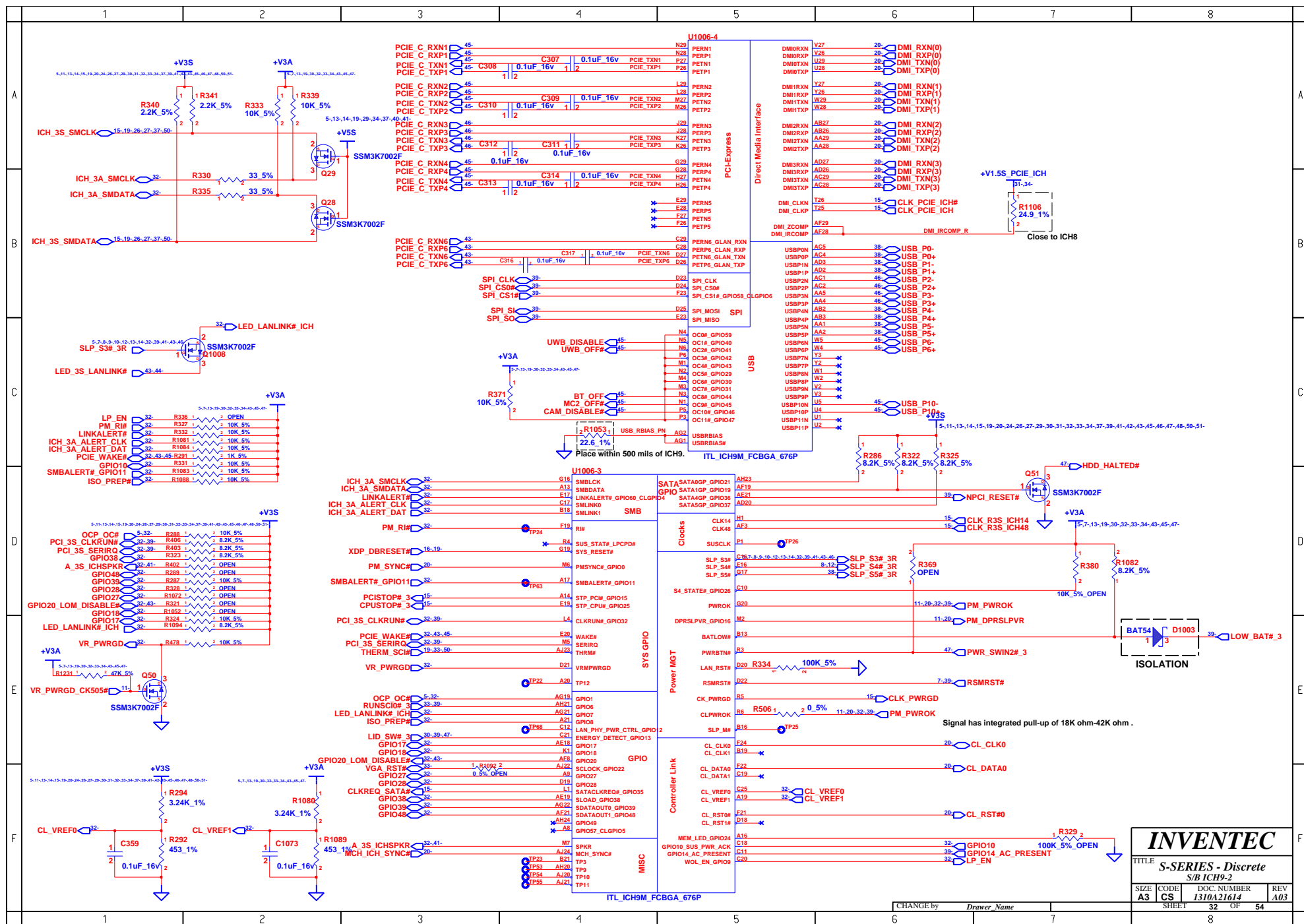
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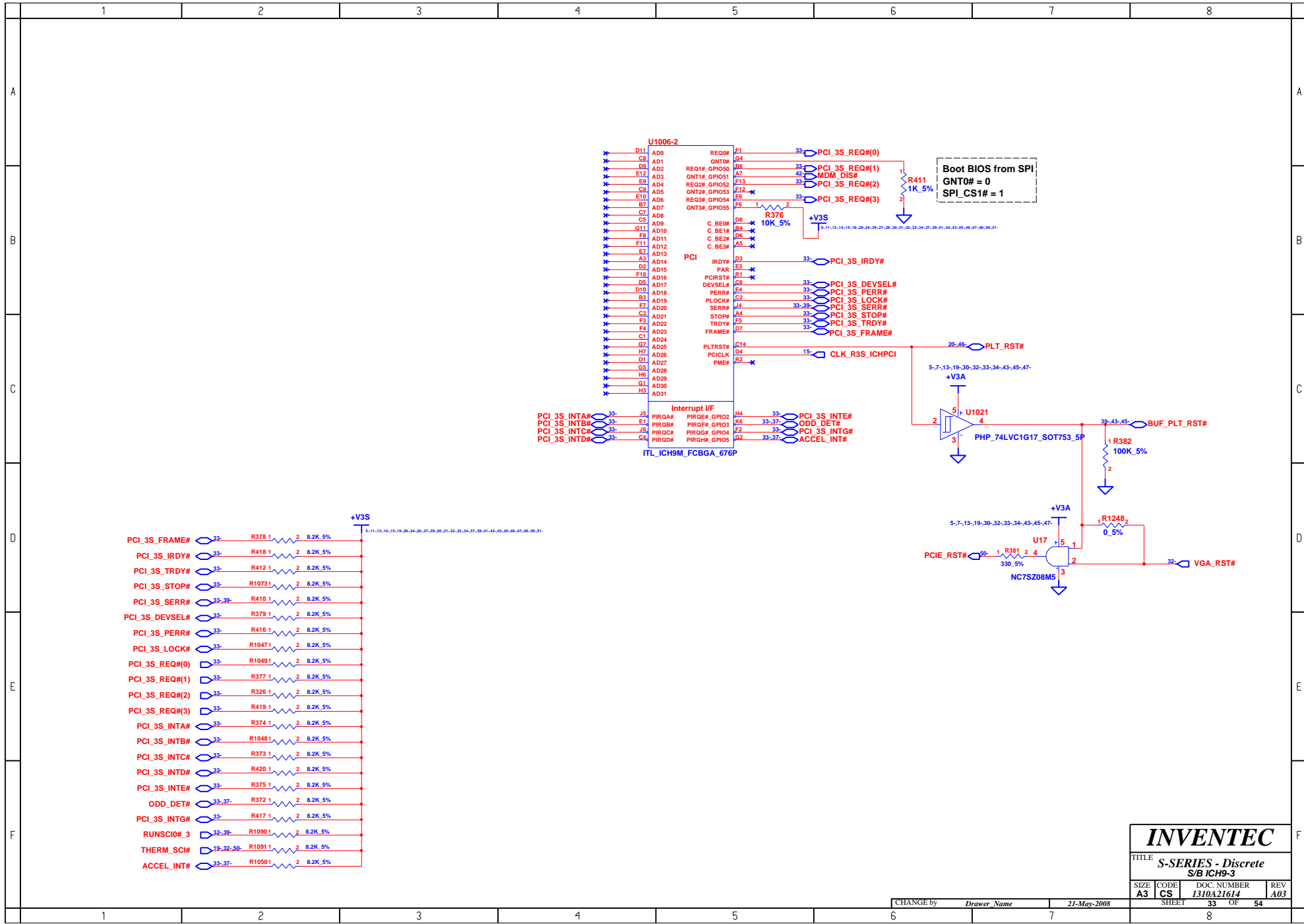
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S-SERIES - Discrete
LCM CONN

SIZE	CODE	DOC. NUMBER	REV
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CHANGE by *Drawer Name* 21-May-2008

SHEET 30 OF 54





INVENTEC

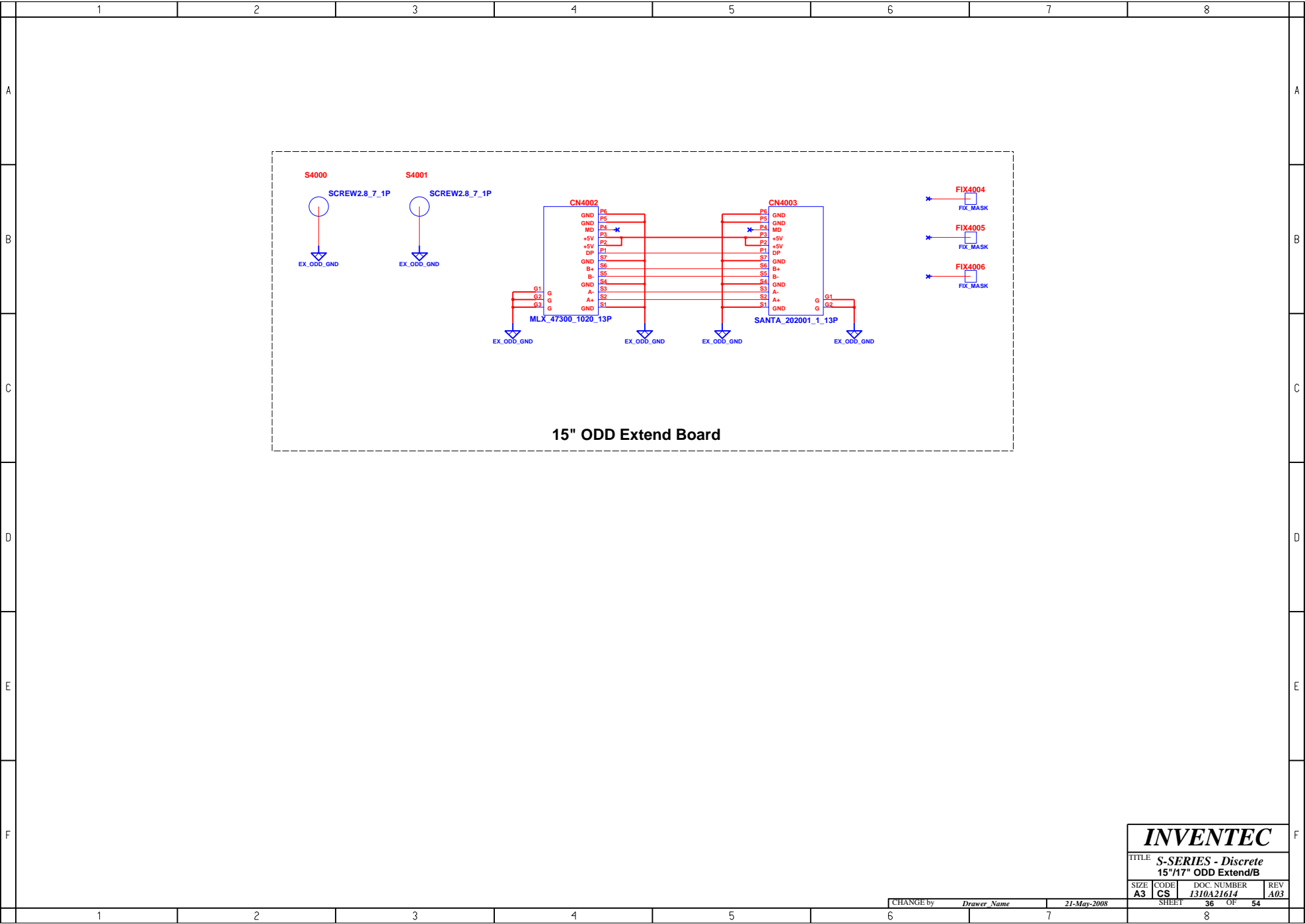
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S-SERIES - Discrete
S/B ICH9-3

SIZE A3	CODE CS	DOC. NUMBER 1310A21614	REV A03
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CHANGE by *Drawer Name* 21-May-2008

SHEET 33 OF 54

	1	2	3	4	5	6	7	8
A				U1006-5				
				AA26 VSS001 VSS107 H5				
				AA27 VSS002 VSS108 J23				
				AA3 VSS003 VSS109 J26				
				AA6 VSS004 VSS110 J27				
				AB1 VSS005 VSS111 AC22				
				AB2 VSS006 VSS112 C38				
				AB26 VSS007 VSS113 K29				
				AB29 VSS008 VSS114 L13				
				AB4 VSS009 VSS115 L15				
				AB5 VSS010 VSS116 L2				
				AC17 VSS011 VSS117 L26				
				AC26 VSS012 VSS118 L27				
				AC27 VSS013 VSS119 L7				
				AC3 VSS014 VSS120 L7				
				AD1 VSS015 VSS121 M12				
				AD19 VSS016 VSS122 M13				
				AD12 VSS017 VSS123 M14				
				AD13 VSS018 VSS124 M15				
				AD14 VSS019 VSS125 M16				
				AD17 VSS020 VSS126 M17				
				AD18 VSS021 VSS127 M23				
				AD21 VSS022 VSS128 M28				
				AD28 VSS023 VSS129 M29				
				AD29 VSS024 VSS130 N11				
				AD4 VSS025 VSS131 N12				
				AD5 VSS026 VSS132 N13				
				AD6 VSS027 VSS133 N14				
				AD7 VSS028 VSS134 N15				
				AD9 VSS029 VSS135 N16				
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				AE13 VSS031 VSS137 N18				
				AE14 VSS032 VSS138 N28				
				AE16 VSS033 VSS139 N27				
				AE17 VSS034 VSS140 P12				
				AE2 VSS035 VSS141 P13				
				AE20 VSS036 VSS142 P14				
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				AE3 VSS038 VSS144 P16				
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				AE6 VSS040 VSS146 P2				
				AE9 VSS041 VSS147 P23				
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				C27 VSS083 VSS189 M2				
				E11 VSS084 VSS190 Y1				
				E14 VSS085 VSS191 Y28				
				E18 VSS086 VSS192 V29				
				E2 VSS087 VSS193 V4				
				E21 VSS088 VSS194 Y5				
				E24 VSS089 VSS195 AG28				
				E3 VSS090 VSS196 AH6				
				E8 VSS091 VSS197 AF2				
				F16 VSS092 VSS198 B25				
				F28 VSS093				
				F29 VSS094 VSS_NCTF1 A1				
				G12 VSS095 VSS_NCTF2 A2				
				G14 VSS096 VSS_NCTF3 A28				
				G18 VSS097 VSS_NCTF4 A29				
				G21 VSS098 VSS_NCTF5 AH1				
				G24 VSS099 VSS_NCTF6 AH29				
				G26 VSS100 VSS_NCTF7 AJ1				
				G27 VSS101 VSS_NCTF8 AJ2				
				G8 VSS102 VSS_NCTF9 AJ28				
				H2 VSS103 VSS_NCTF10 AJ29				
				H23 VSS104 VSS_NCTF11 B1				
				H28 VSS105 VSS_NCTF12 B29				
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				ITL_ICH9M_FCBGA_676P				
B								
C								
D								
E								
F								



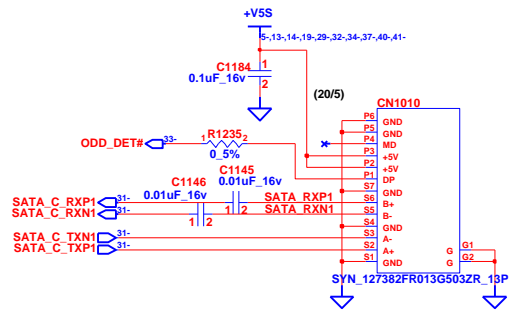
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TITLE **S-SERIES - Discrete**
15"17" ODD Extend/B

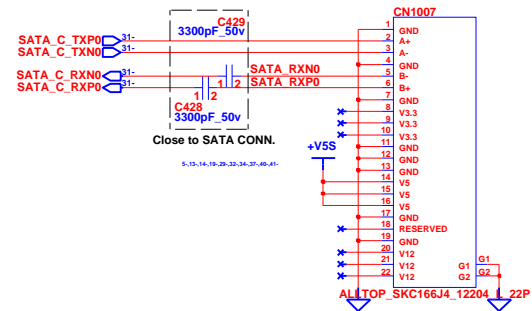
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CHANGE by *Drawer Name* 21-May-2008

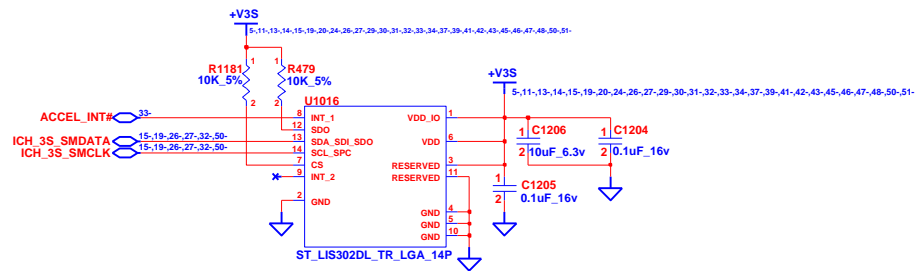
SHEET 36 OF 54



SATA ODD

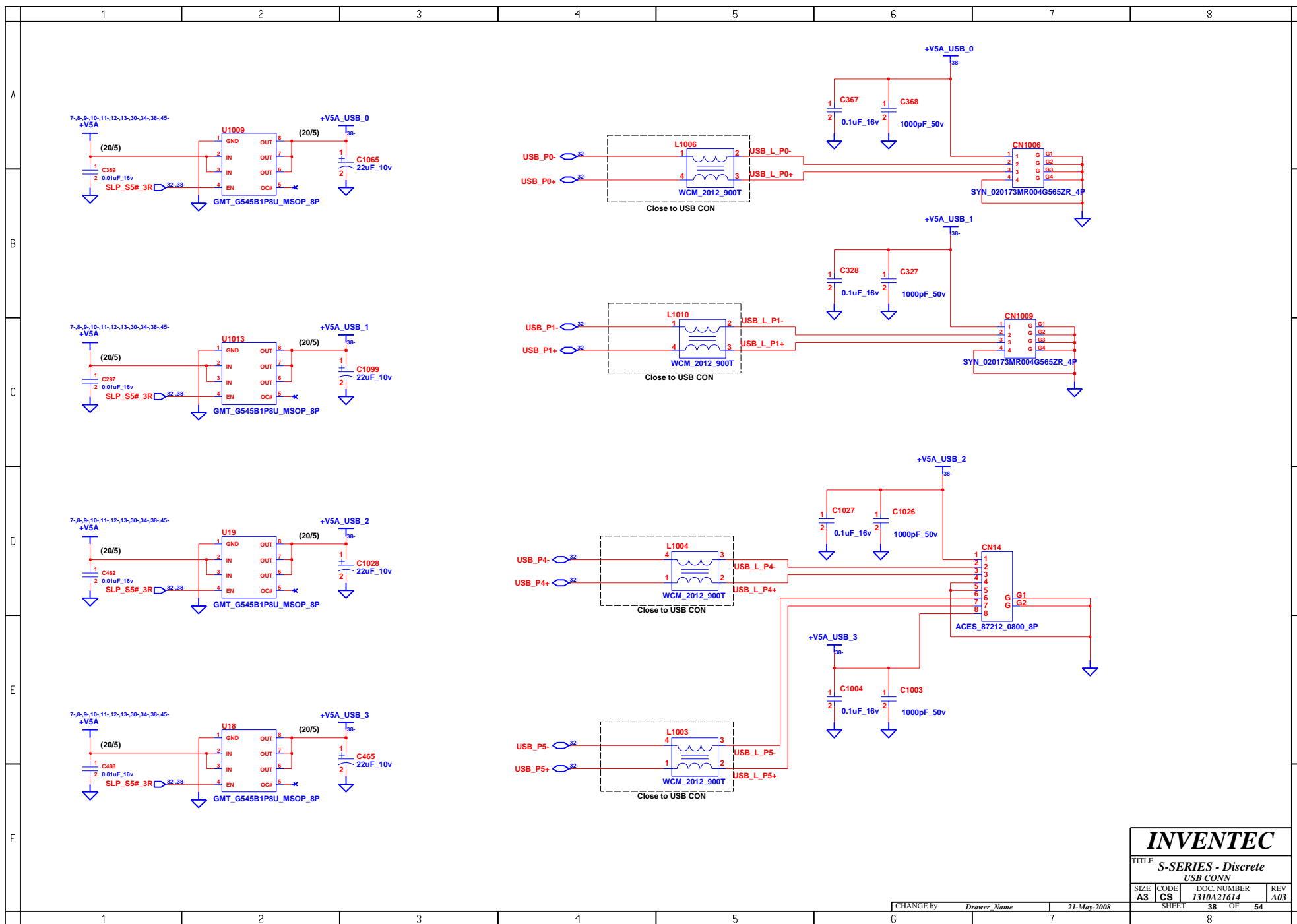


SATA HDD



Accelerometer

INVENTEC			
TITLE S-SERIES - Discrete			
HDD & ODD CONN & Accelerometer			
SIZE A3	CODE CS	DOC. NUMBER 1310A21614	REV A03
CHANGE by		Drawer Name	21-May-2008
SHEET		37	OF 54



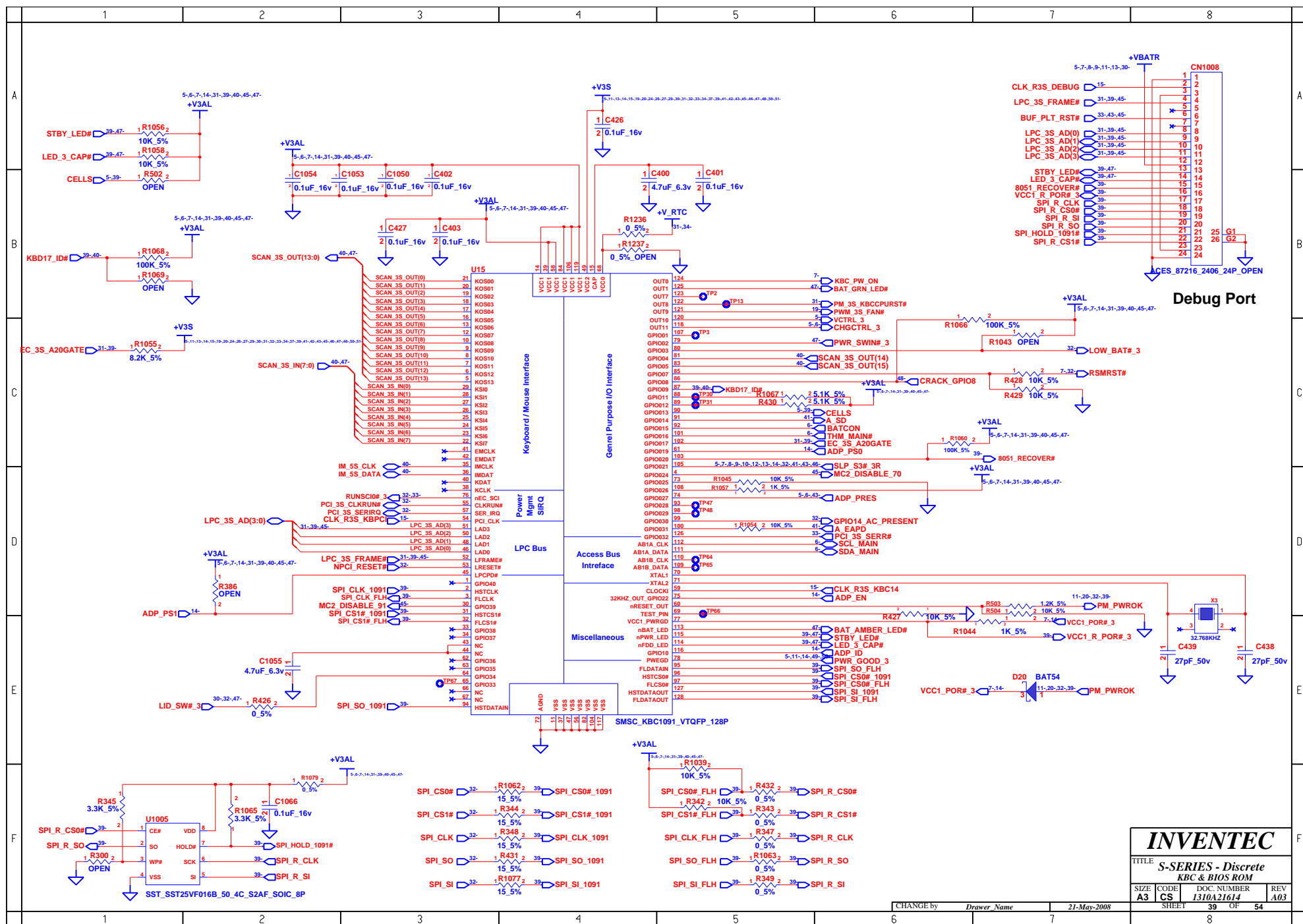
INVENTEC

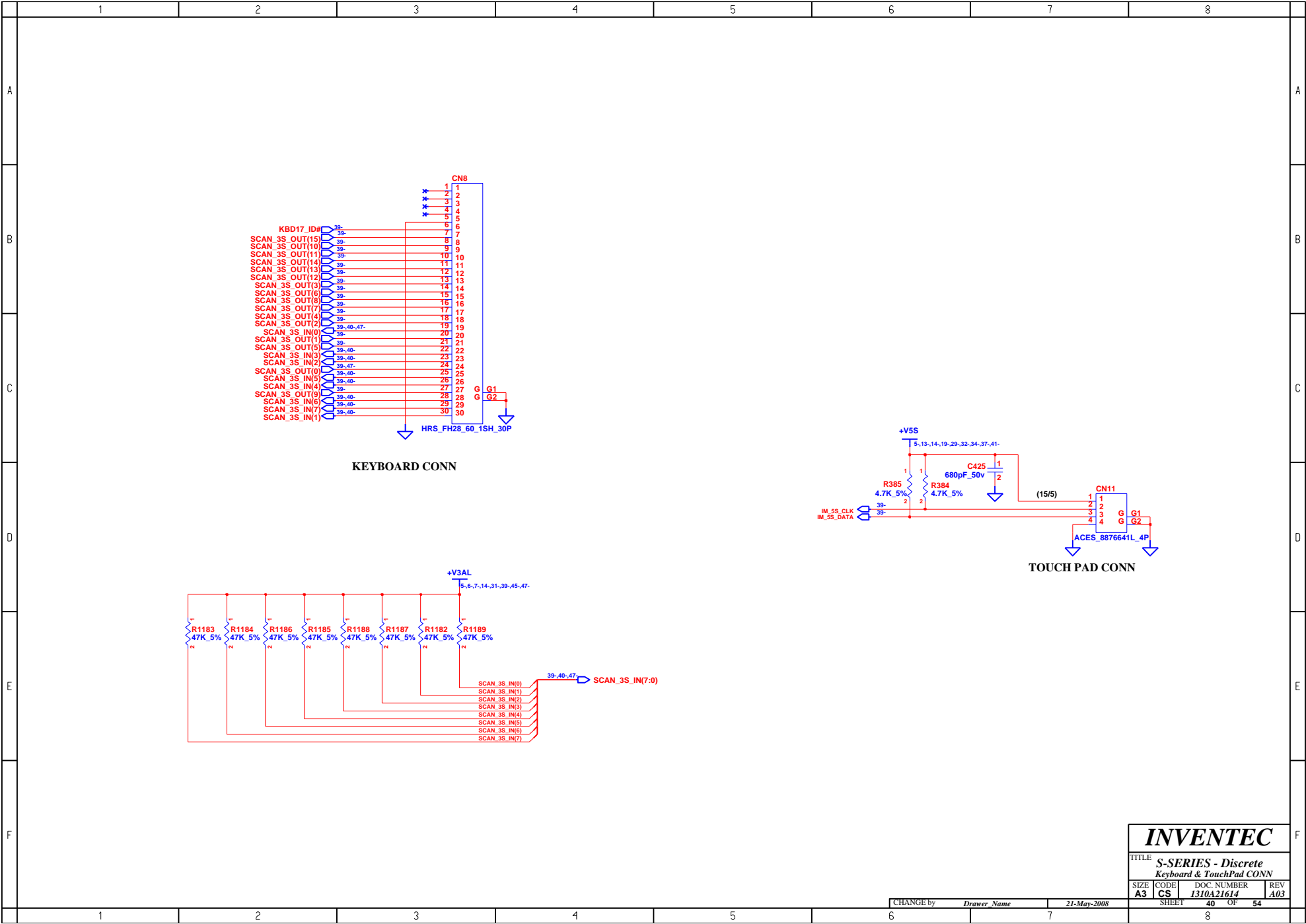
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S-SERIES - Discrete
USB CONN

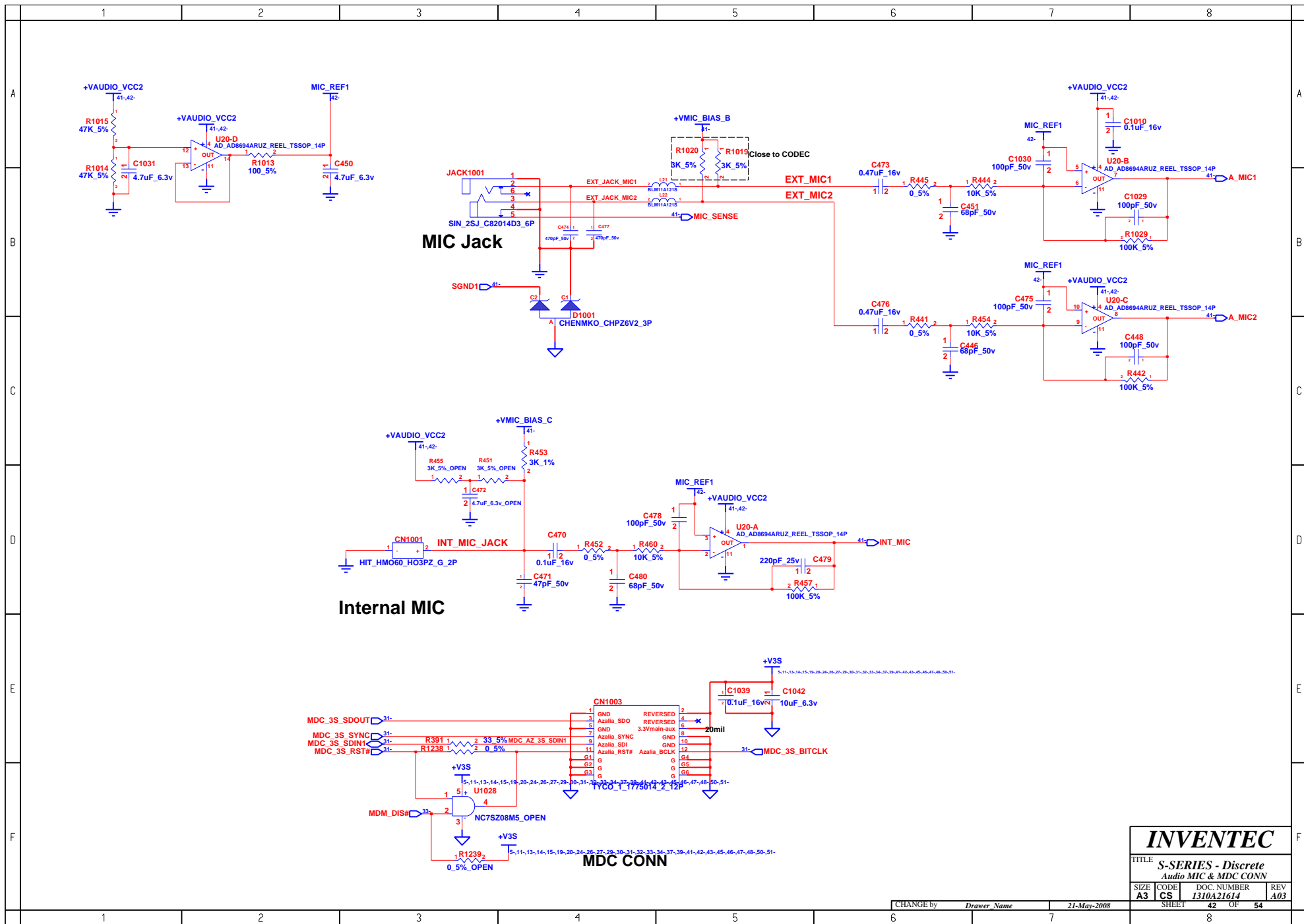
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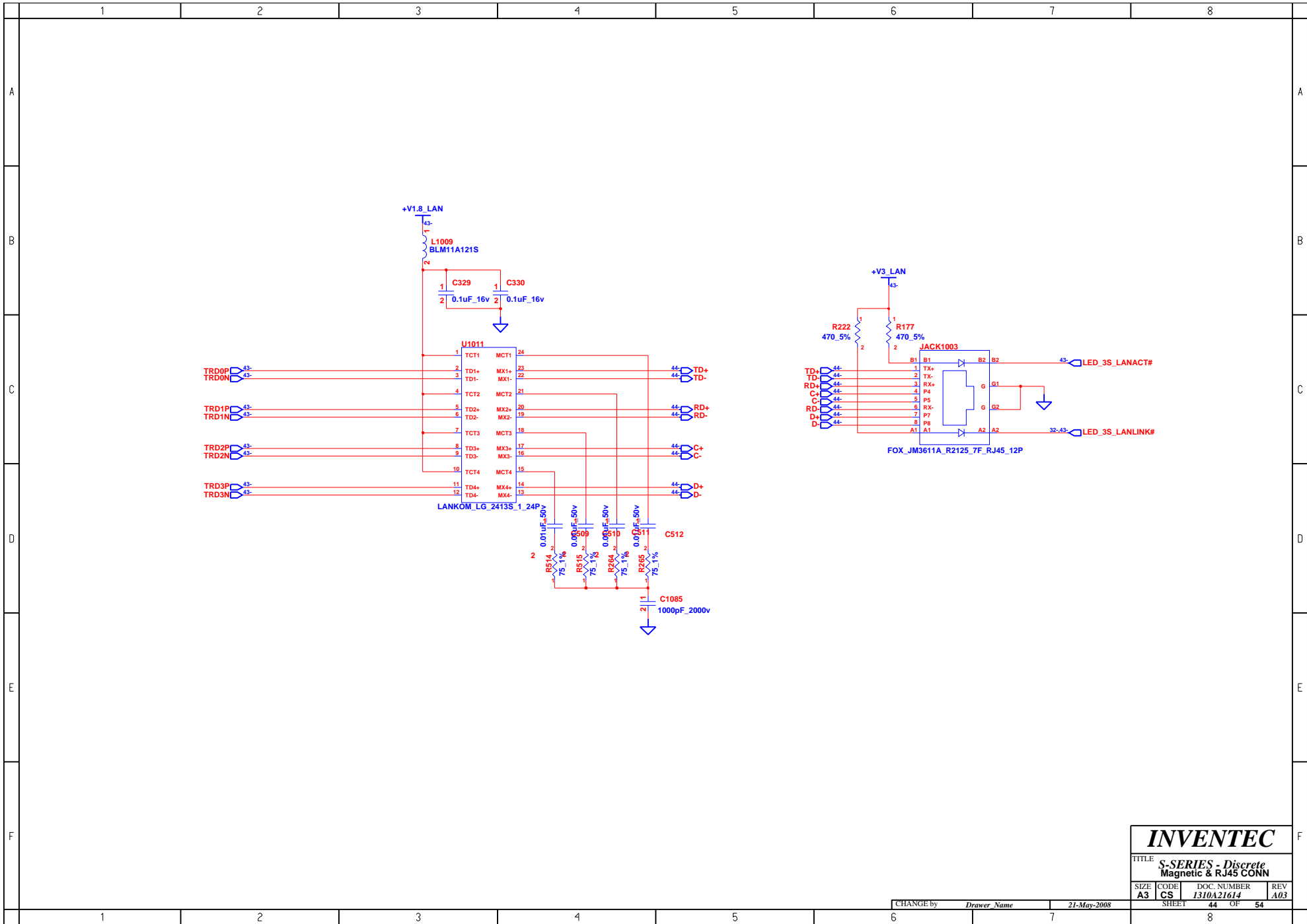
CHANGE by *Drawer Name* 21-May-2008

SHEET 38 OF 54









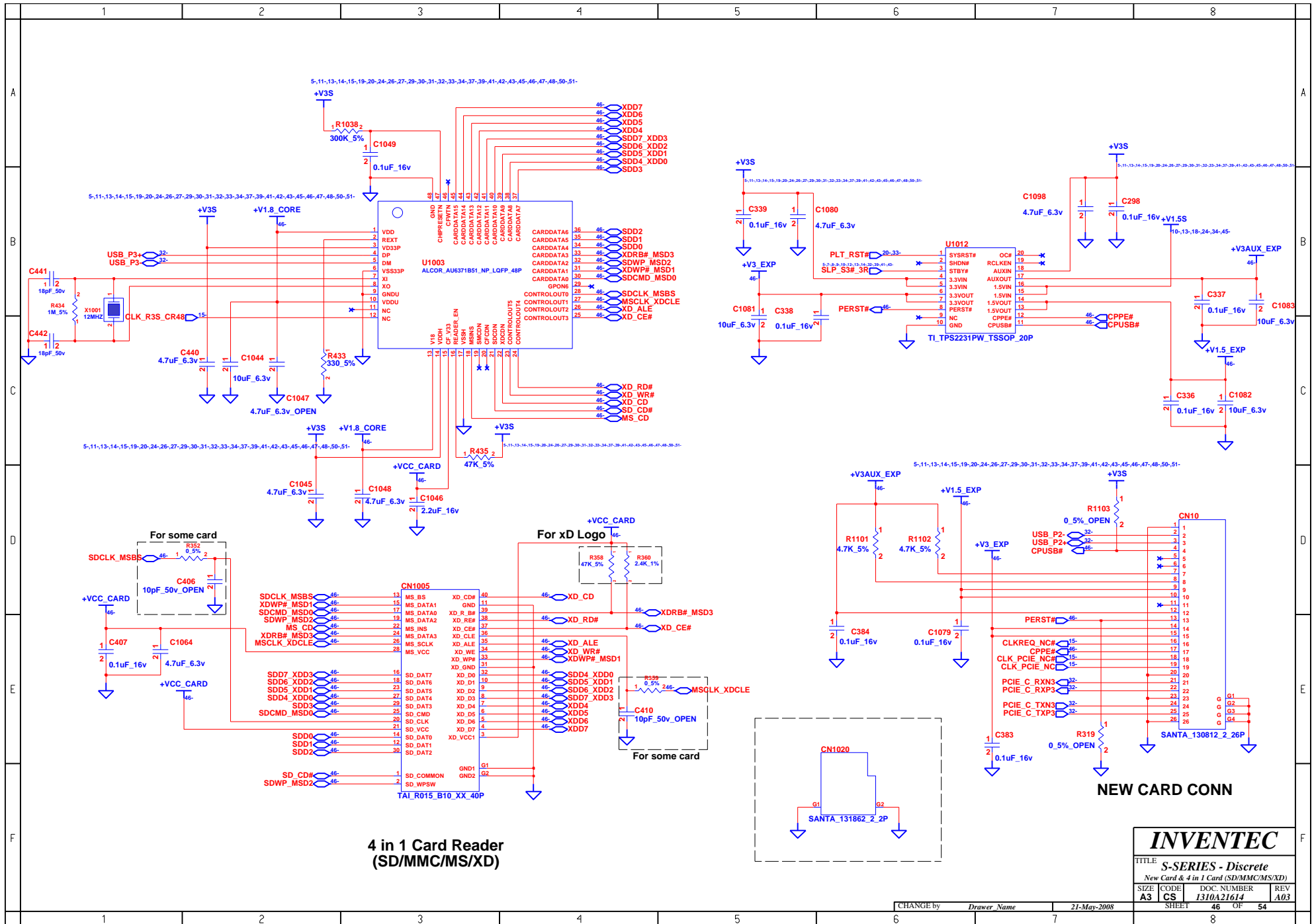
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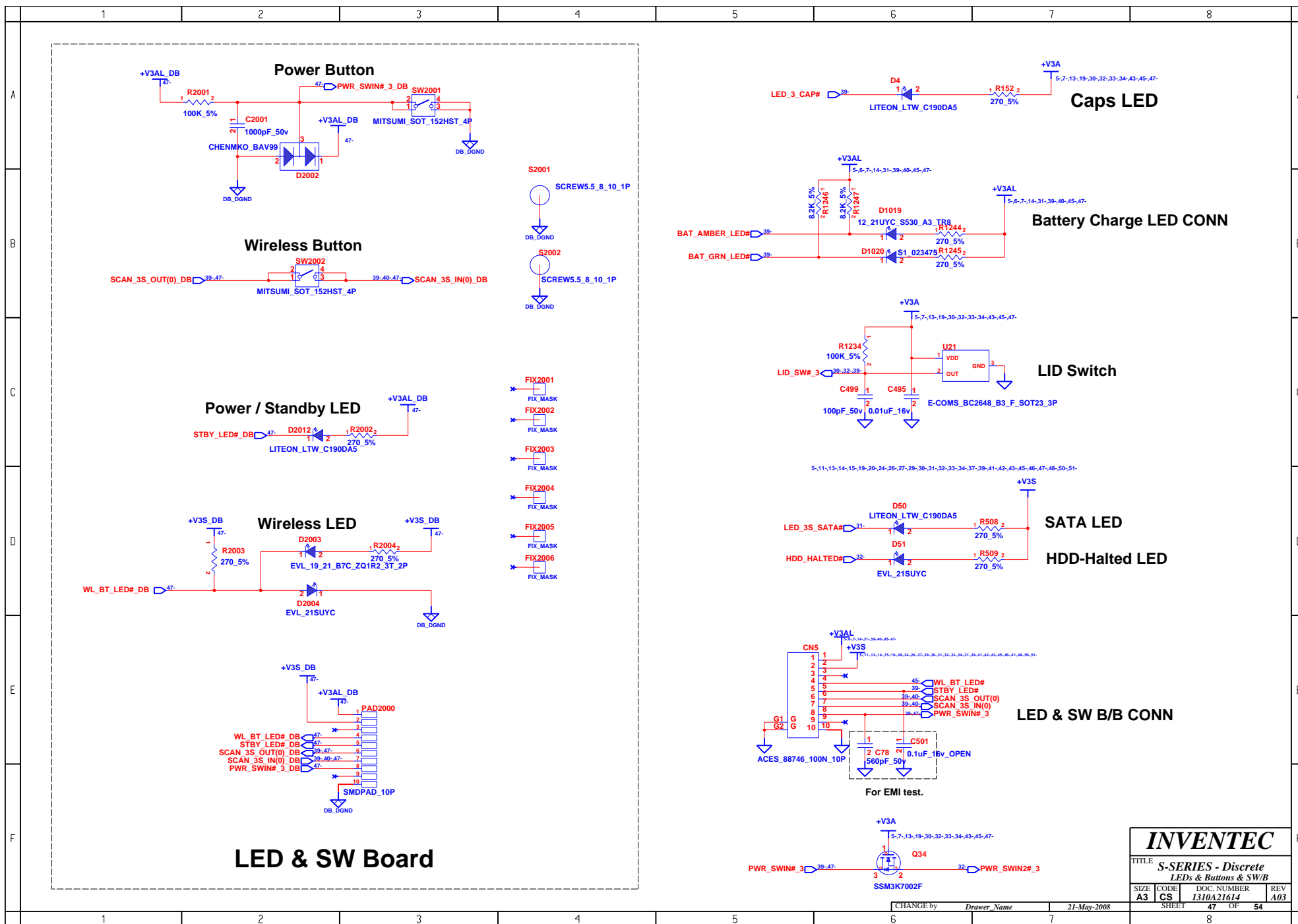
TITLE
S-SERIES - Discrete
Magnetic & RJ45 CONN

SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A21614	A03

CHANGE by: *Drawer Name* 21-May-2008

SHEET 44 OF 54





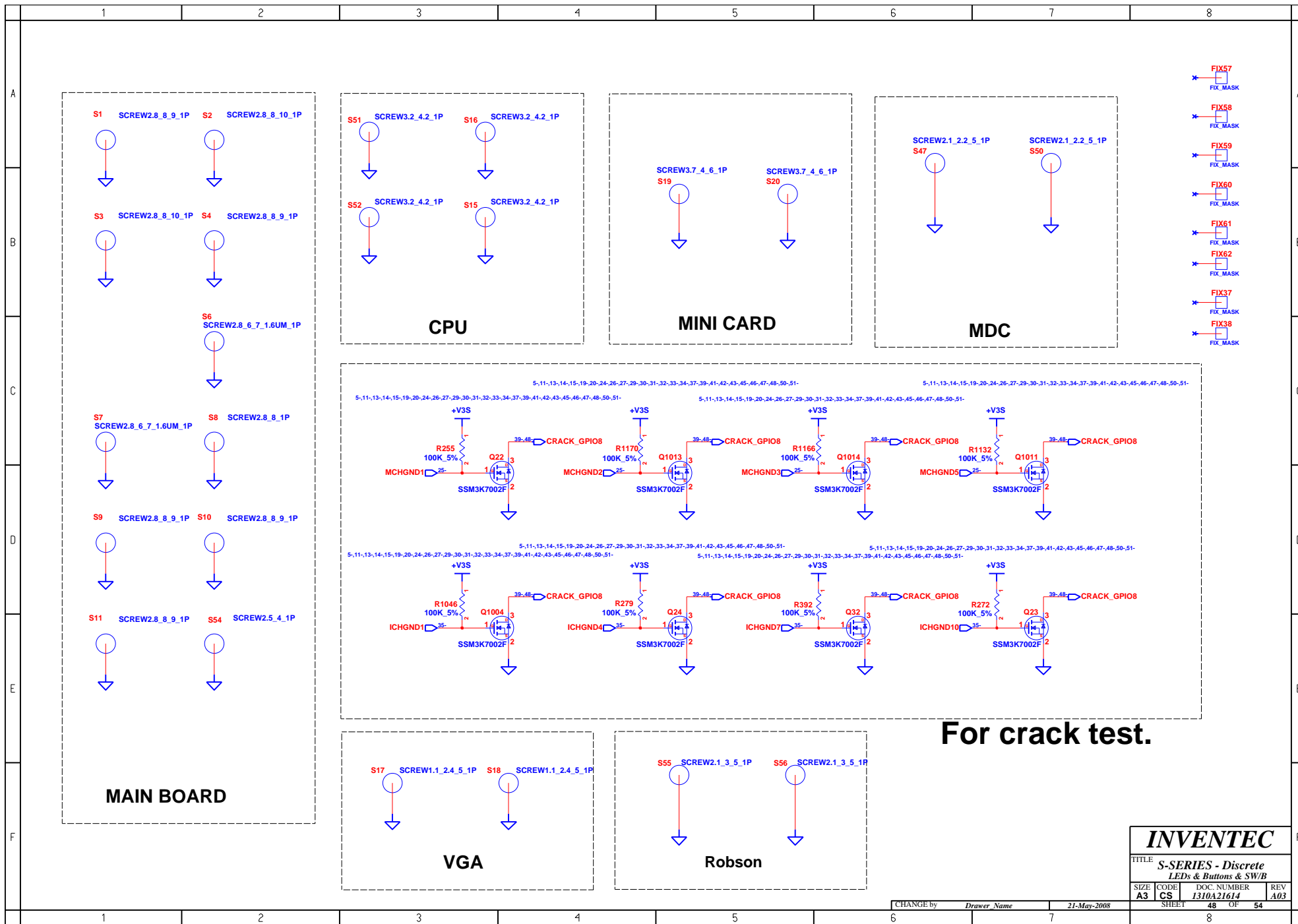
INVENTEC

TITLE
S-SERIES - Discrete
LEDs & Buttons & SW/B

SIZE A3	CODE CS	DOC. NUMBER 1310A21614	REV A03
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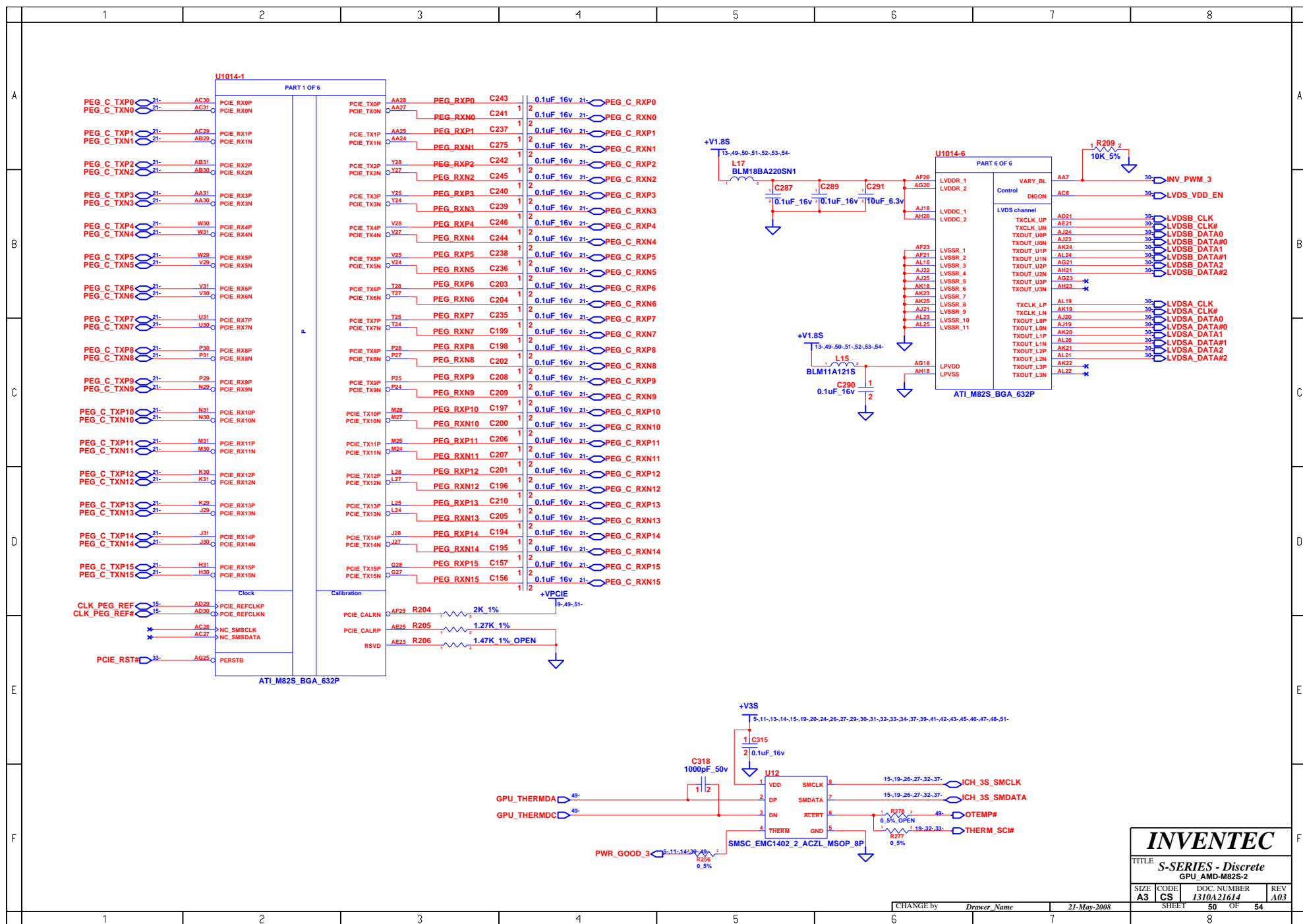
CHANGE by Drawer Name 21-May-2008

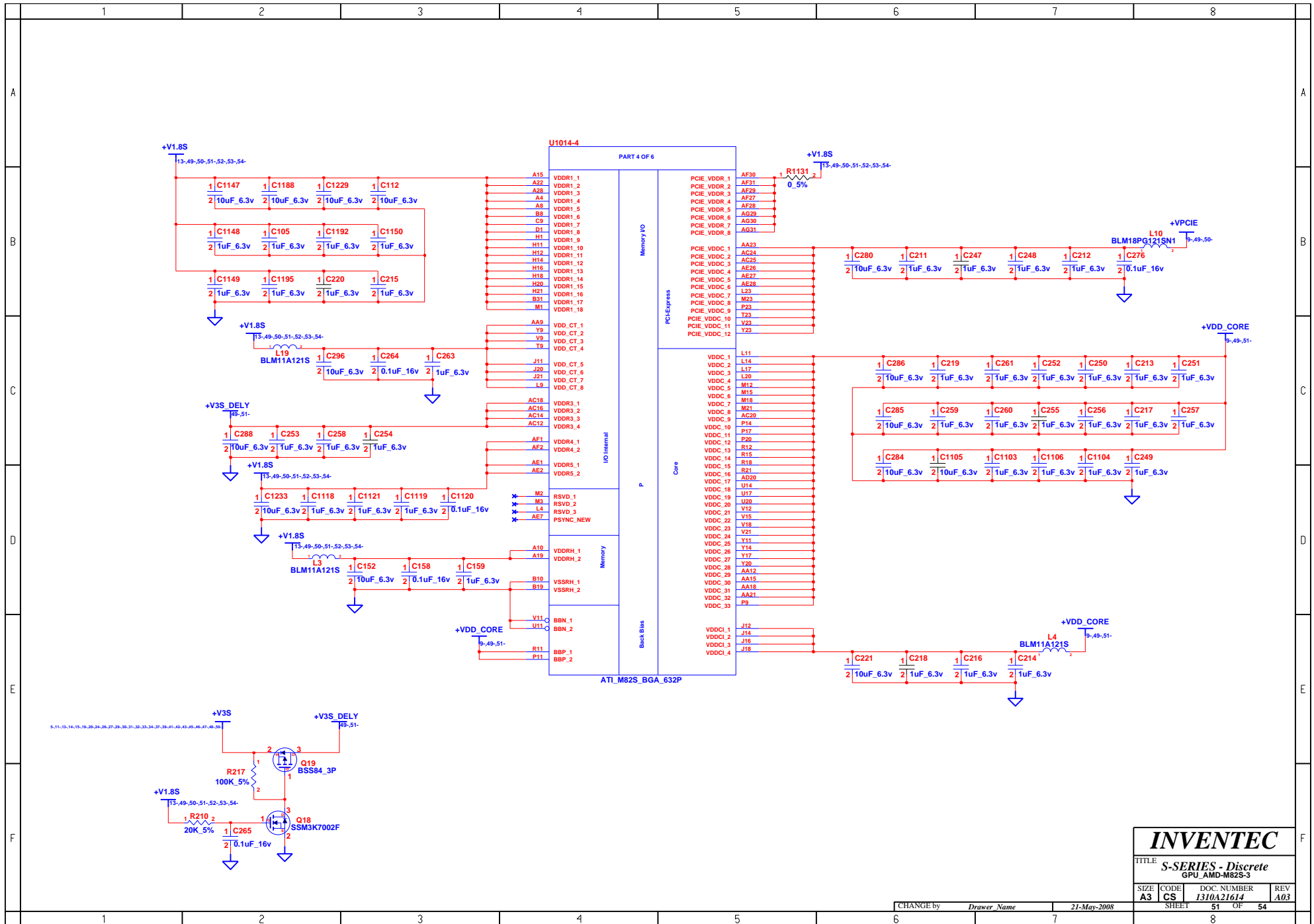
SHEET 47 OF 54



INVENTEC			
TITLE S-SERIES - Discrete LEDs & Buttons & SW/B			
SIZE A3	CODE CS	DOC NUMBER 1310A21614	REV A03
SHEET 48		OF 54	

CHANGE by *Drawer Name* 21-May-2008





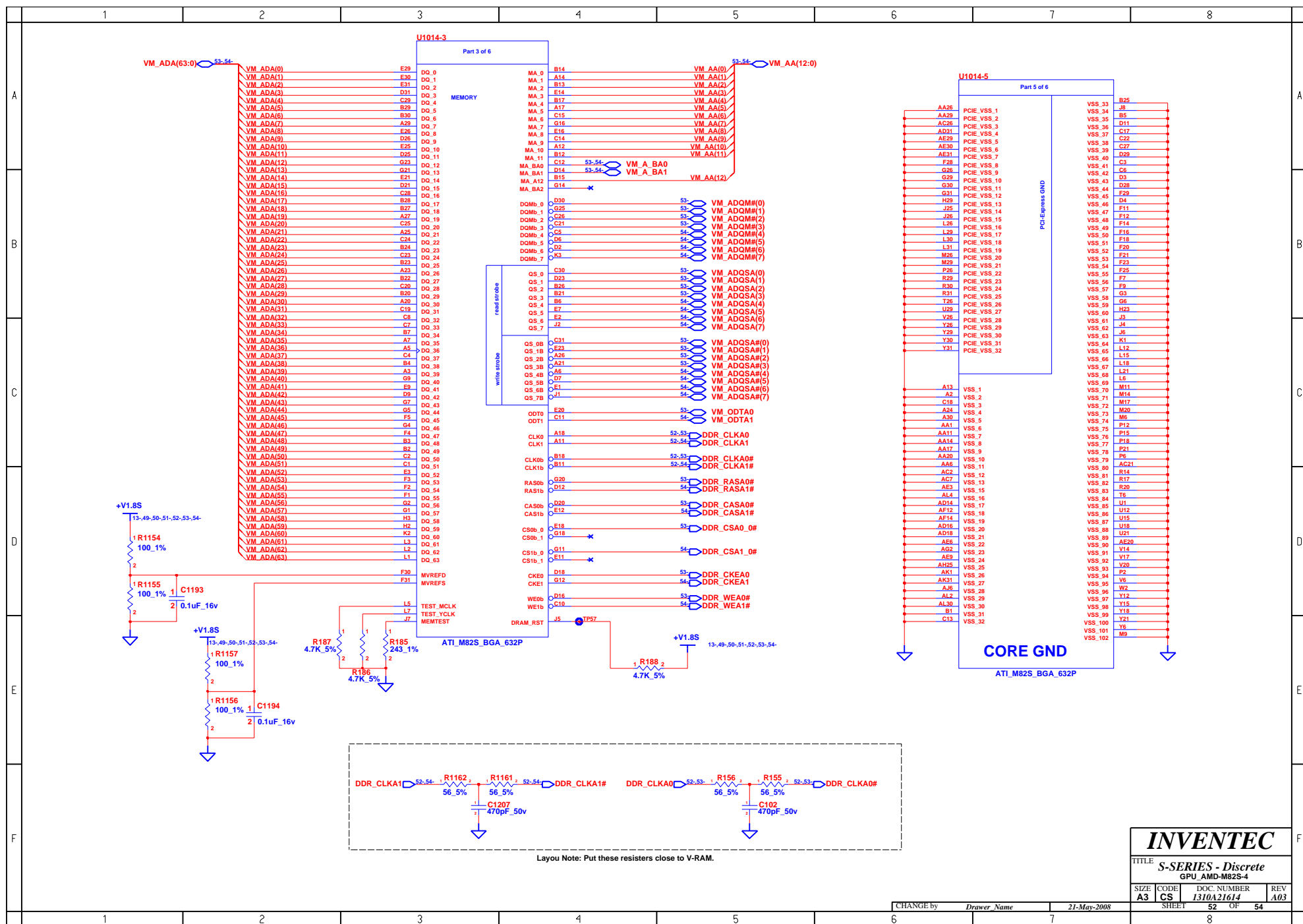
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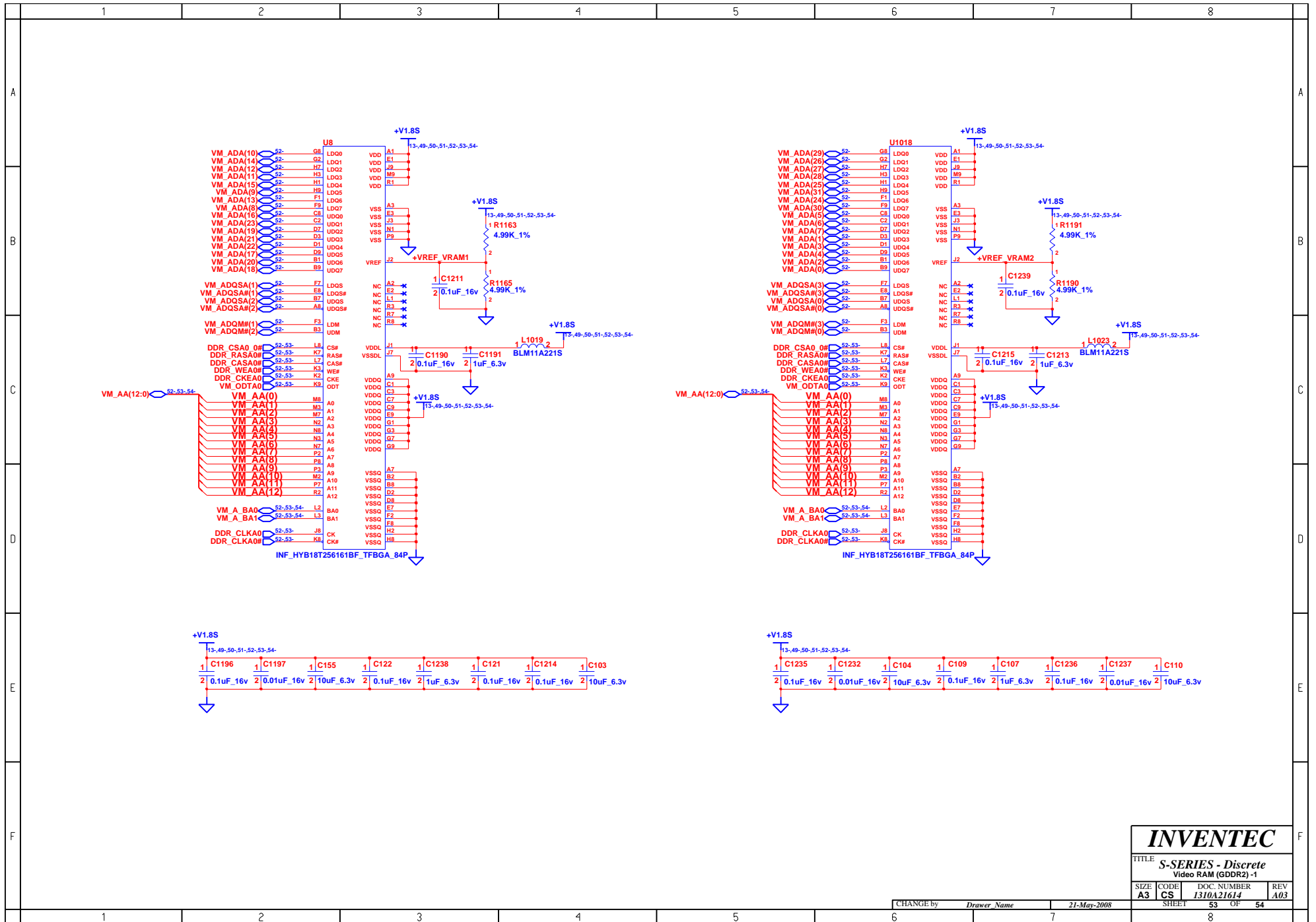
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S-SERIES - Discrete
GPU_AMD-M82S-3

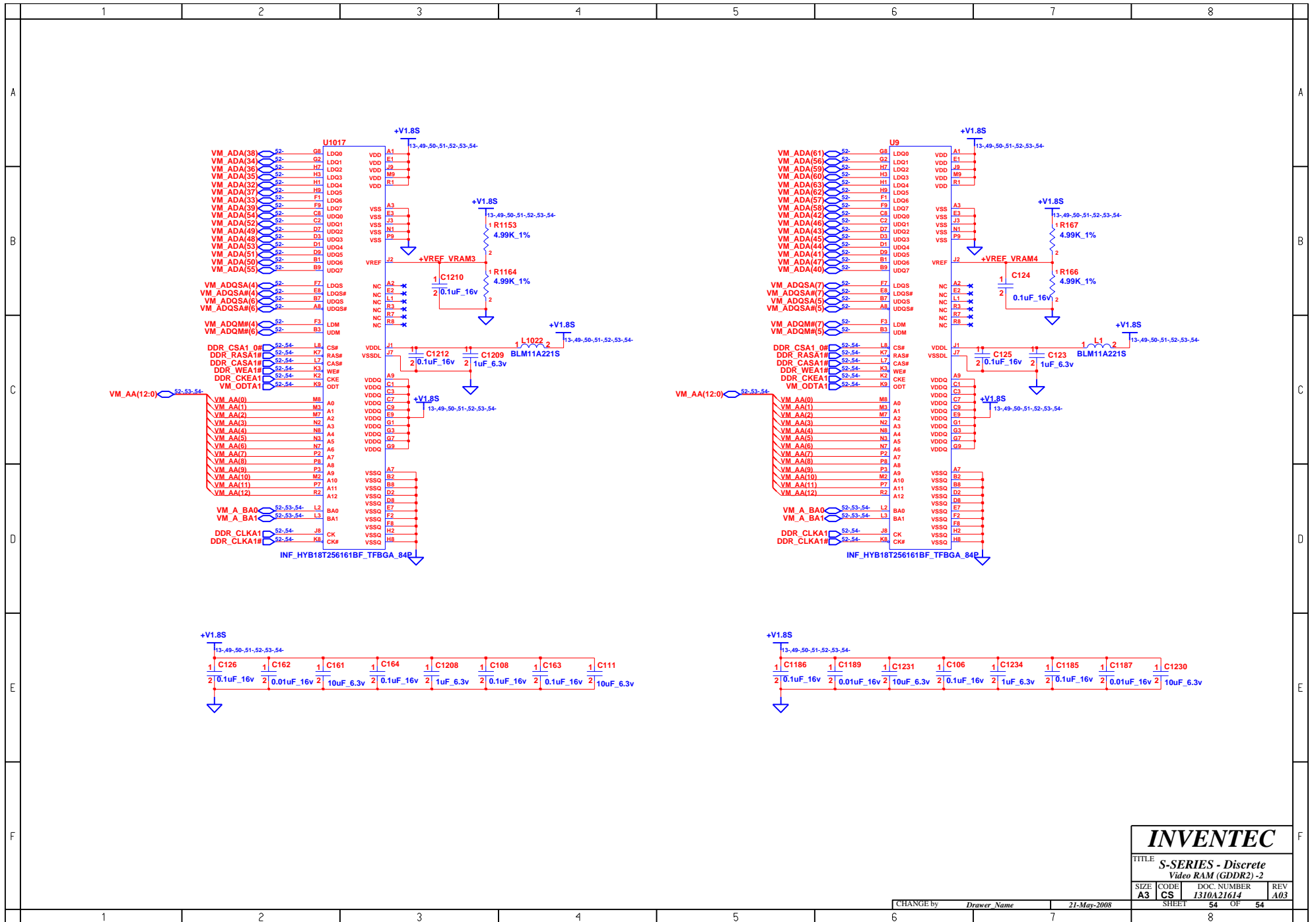
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CHANGE by *Drawer Name* 21-May-2008

SHEET 51 OF 54







INVENTEC

TITLE
S-SERIES - Discrete
Video RAM (GDDR2) -2

SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A21614	A03

CHANGE by *Drawer Name* 21-May-2008

SHEET 54 OF 54