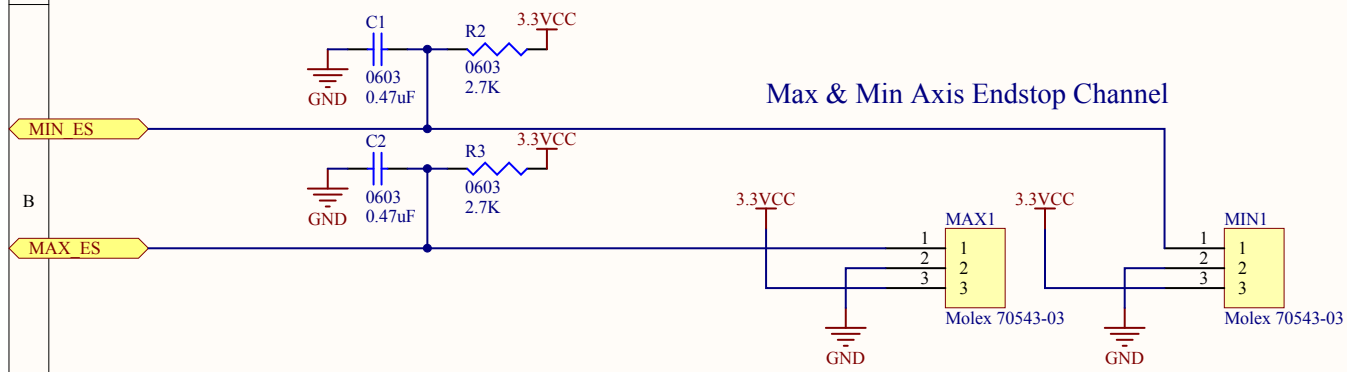


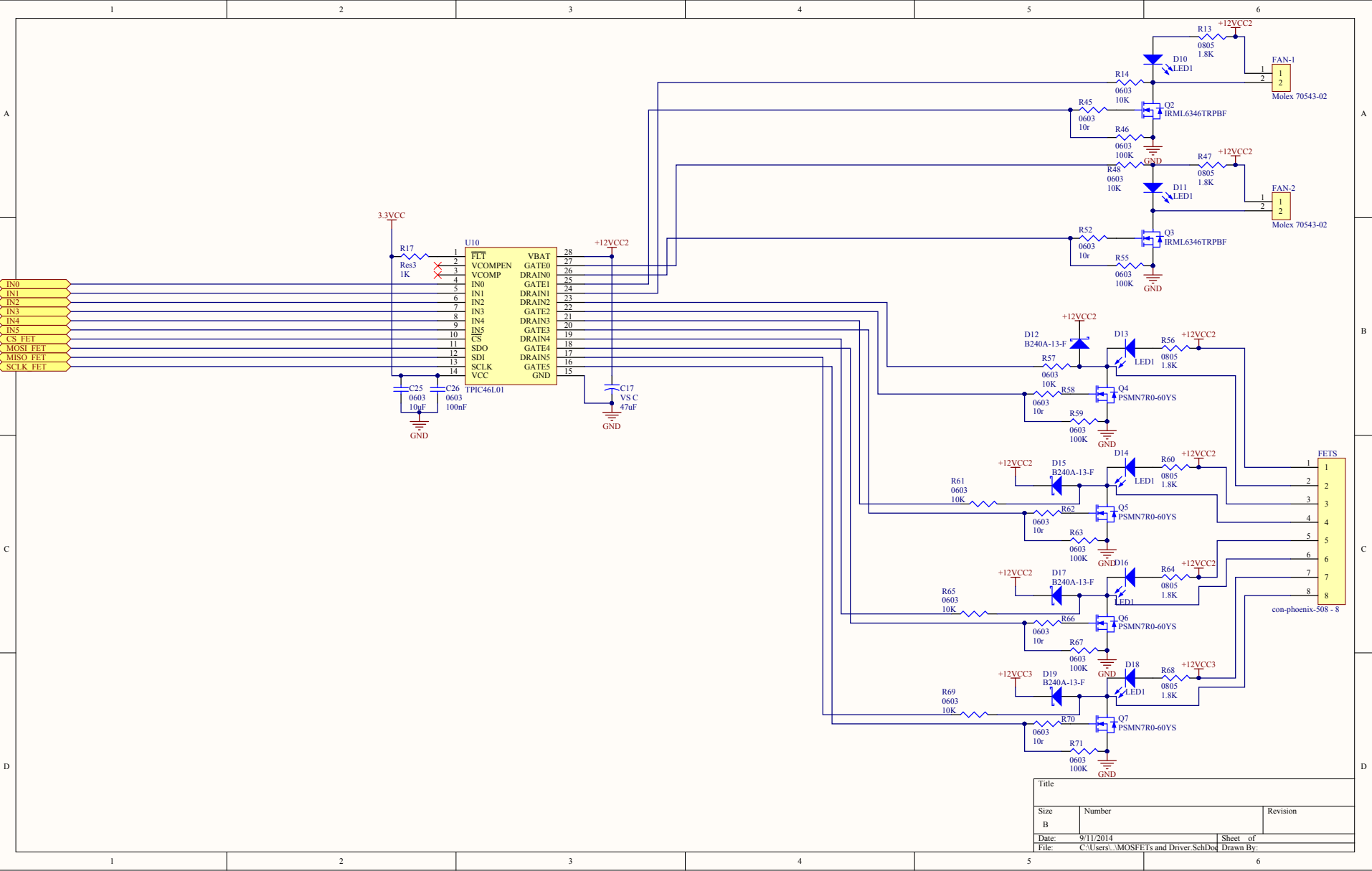
Title		
Size C	Number	Revision
Date:	9/11/2014	Sheet of
File:	C:\Users\ATSAM3X8E>Main Controller\Bldg\Bldg	

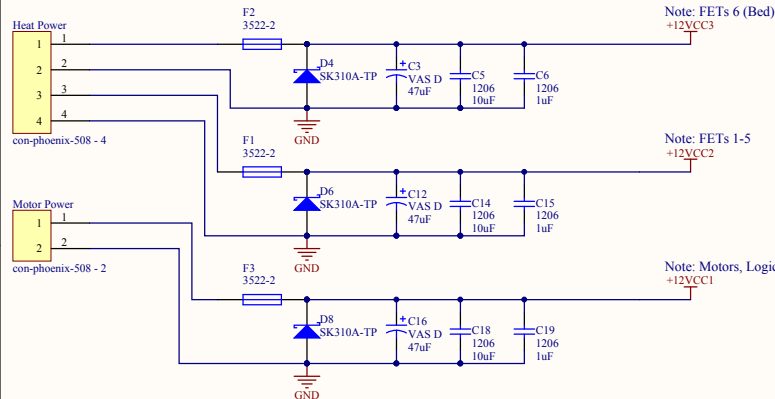


End Stop Channel



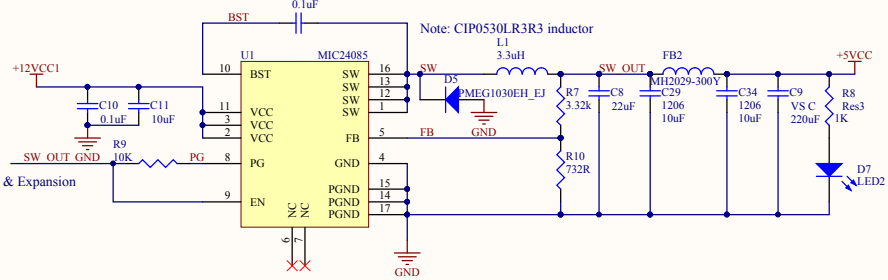
Title		
Size A	Number	Revision
Date:	9/11/2014	Sheet of
File:	C:\Users\...\Endstop Channel.SchDoc	Drawn By:



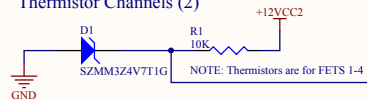


NOTE: Compatible with 24VDC

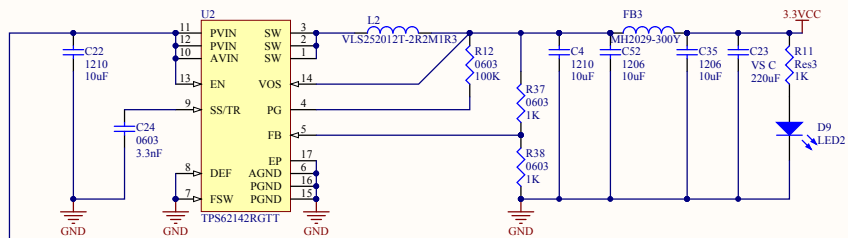
### Five Volt Supply 3A DCDC Switching



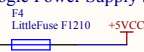
### Thermistor Channels (2)



### Logic Power Supply (3.3VDC)

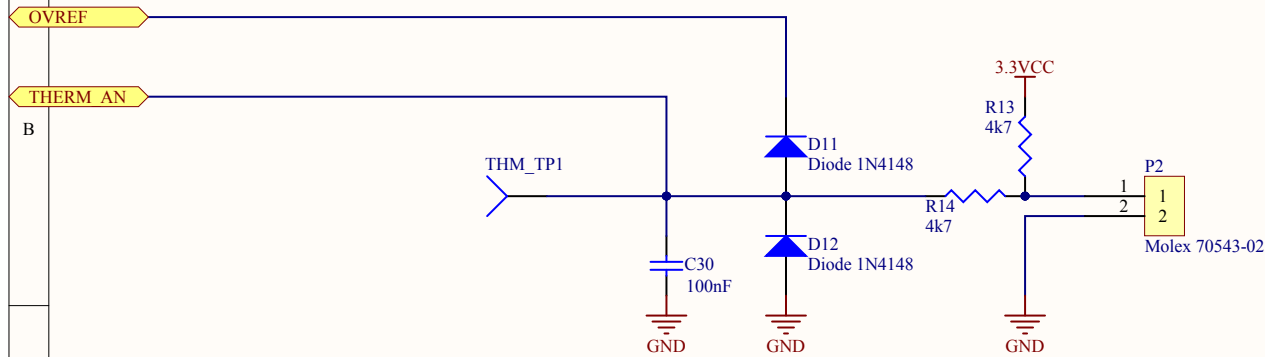


### Logic Power Supply Select Jumper



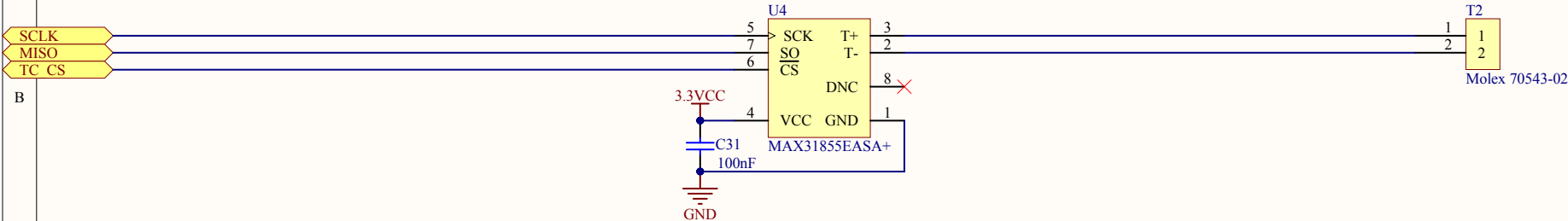
Title		
Size	Number	Revision
B		
Date:	9/11/2014	Sheet of
File:	C:\Users\...Power SchDoc	Drawn By:

# Thermistor Channel

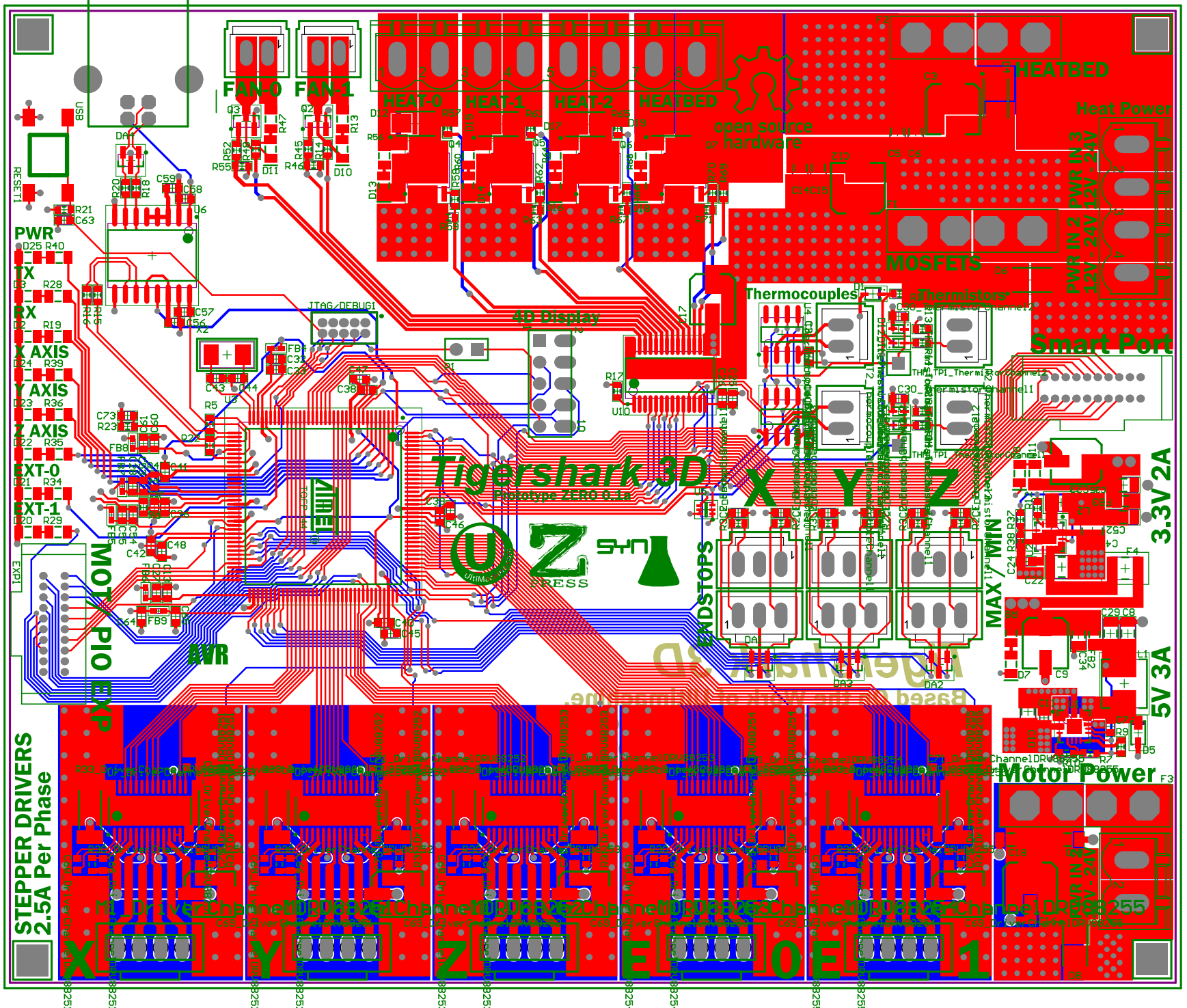


Title		
Size A	Number	Revision
Date:	9/11/2014	Sheet of
File:	C:\Users\...\Thermistor Channel.SchDoc	Drawn By:

MAX31855 Thermocouple ADC Channel



Title		
Size A	Number	Revision
Date:	9/11/2014	Sheet of
File:	C:\Users\...\Thermocouple Channel.SchDoc	Drawn By:



STEPPER DRIVERS  
2.5A Per Phase

X Y Z E F

Tigershark 3D  
Prototype ZH0 0.1a

Motor Power

3.3V 2A

5V 3A

Smart Port

MOSFETS

Heat Power

HEATBED

HEAT-0 HEAT-1 HEAT-2 HEATBED

Thermocouples

Thermistors

4D Display

AVR

MOT PIO EXP

PWR

TX

RX

X AXIS

Y AXIS

Z AXIS

EXT-0

EXT-1

EXP1

EXP2

EXP3

EXP4

EXP5

EXP6

EXP7

EXP8

EXP9

EXP10

EXP11

EXP12

EXP13

EXP14

EXP15

D25 R40

R28

R19

R39

R36

R35

R34

R29

R21

R20

R18

R17

R16

R15

R14

R13

R12

R11

R10

R9

R8

R7

R6

R5

R4

R3

D25 R40

R28

R19

R39

R36

R35

R34

R29

R21

R20

R18

R17

R16

R15

R14

R13

R12

R11

R10

R9

R8

R7

R6

R5

R4

R3

D25 R40

R28

R19

R39

R36

R35

R34

R29

R21

R20

R18

R17

R16

R15

R14

R13

R12

R11

R10

R9

R8

R7

R6

R5

R4

R3

D25 R40

R28

R19

R39

R36

R35

R34

R29

R21

R20

R18

R17

R16

R15

R14

R13

R12

R11

R10

R9

R8

R7

R6

R5

R4

R3

D25 R40

R28

R19

R39

R36

R35

R34

R29

R21

R20

R18

R17

R16

R15

R14

R13

R12

R11

R10

R9

R8

R7

R6

R5

R4

R3

D25 R40

R28

R19

R39

R36

R35

R34

R29

R21

R20

R18

R17

R16

R15

R14

R13

R12

R11

R10

R9

R8

R7

R6

R5

R4

R3

D25 R40

R28

R19

R39

R36

R35

R34

R29

R21

R20

R18

R17

R16

R15

R14

R13

R12

R11

R10

R9

R8

R7

R6

R5

R4

R3

D25 R40

R28

R19

R39

R36

R35

R34

R29

R21

R20

R18

R17

R16

R15

R14

R13

R12

R11

R10

R9

R8

R7

R6

R5

R4

R3

D25 R40

R28

R19

R39

R36

R35

R34

R29

R21

R20

R18

R17

R16

R15

R14

R13

R12

R11

R10

R9

R8

R7

R6

R5

R4

R3

D25 R40

R28

R19

R39

R36

R35

R34

R29

R21

R20

R18

R17

R16

R15

R14

R13

R12

R11

R10

R9

R8

R7

R6

R5

R4

R3

D25 R40

R28

R19

R39

R36

R35

R34

R29

R21

R20

R18

R17

R16

R15

R14

R13

R12

R11

R10

R9

R8

R7

R6

R5

R4

R3

D25 R40

R28

R19

R39

R36

R35

R34

R29

R21

R20

R18

R17

R16

R15

R14

R13

R12

R11

R10

R9

R8

R7

R6