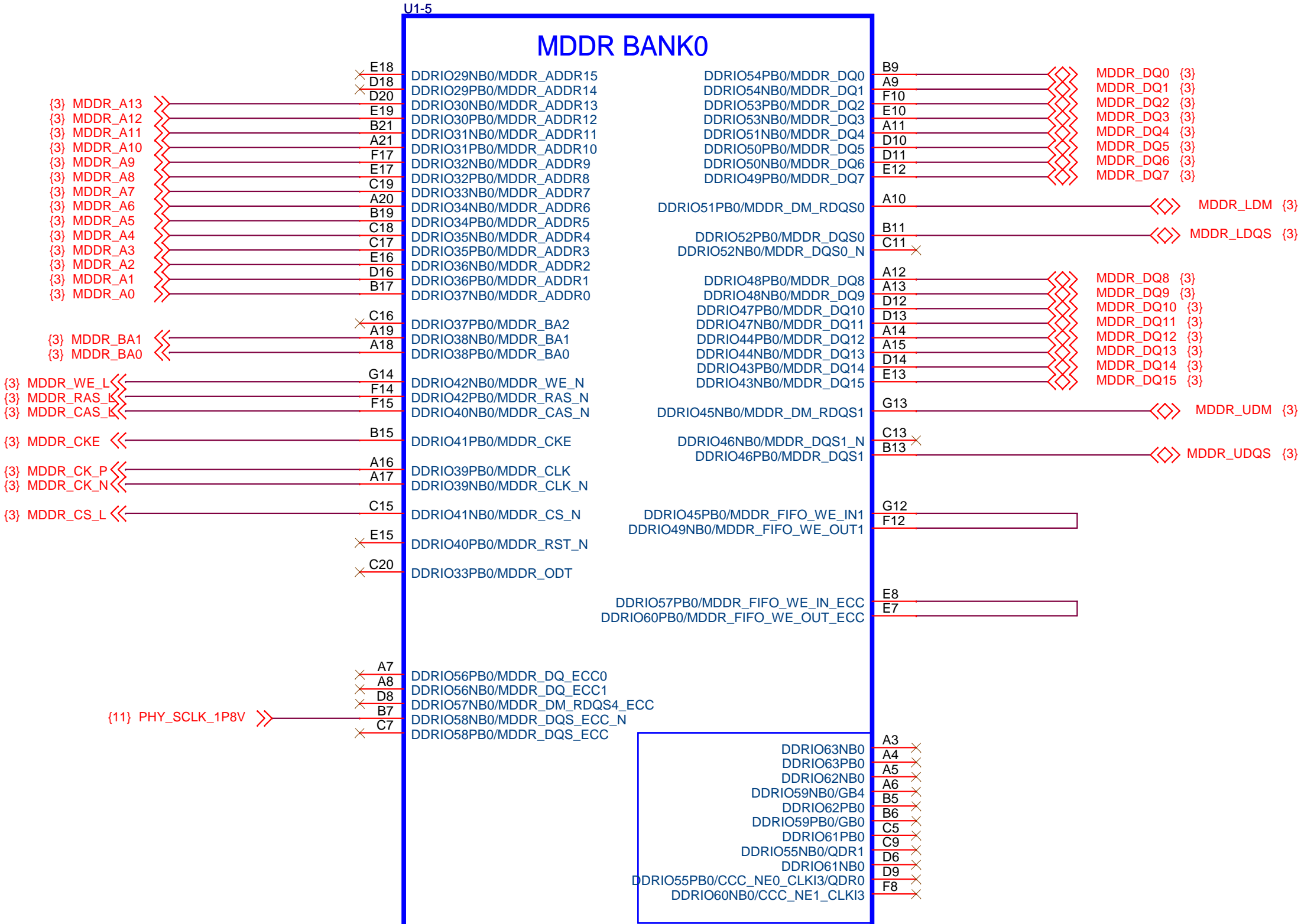


# M2GL/M2S-EVAL-KIT

## DVP-100-000402-001 RevC

Microsemi Corporation	
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03	LPDDR MEMORY INTERFACE
04	SERDES 0 INTERFACE
05	BANK 1 & 2 CONNECTION
06	BANK 4,6 &7 CONNECTION
07	GPIO HEADER
08	JTAG,I2C & SPI INTERFACE
09	SF2-POWER AND GROUND CONNECTION
10	USB INTERFACE
11	MARVELL PHY INTERFACE
12	MARVELL PHY INTERFACE
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14	FT4232H CONNECTION
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16	POWER SUPPLIES 1
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18	POWER SUPPLIES 3
19	POWER SUPPLIES 4
20	POWER SUPPLIES 5
21	POWER SUPPLIES 6
22	POWER SUPPLIES 7 & LED

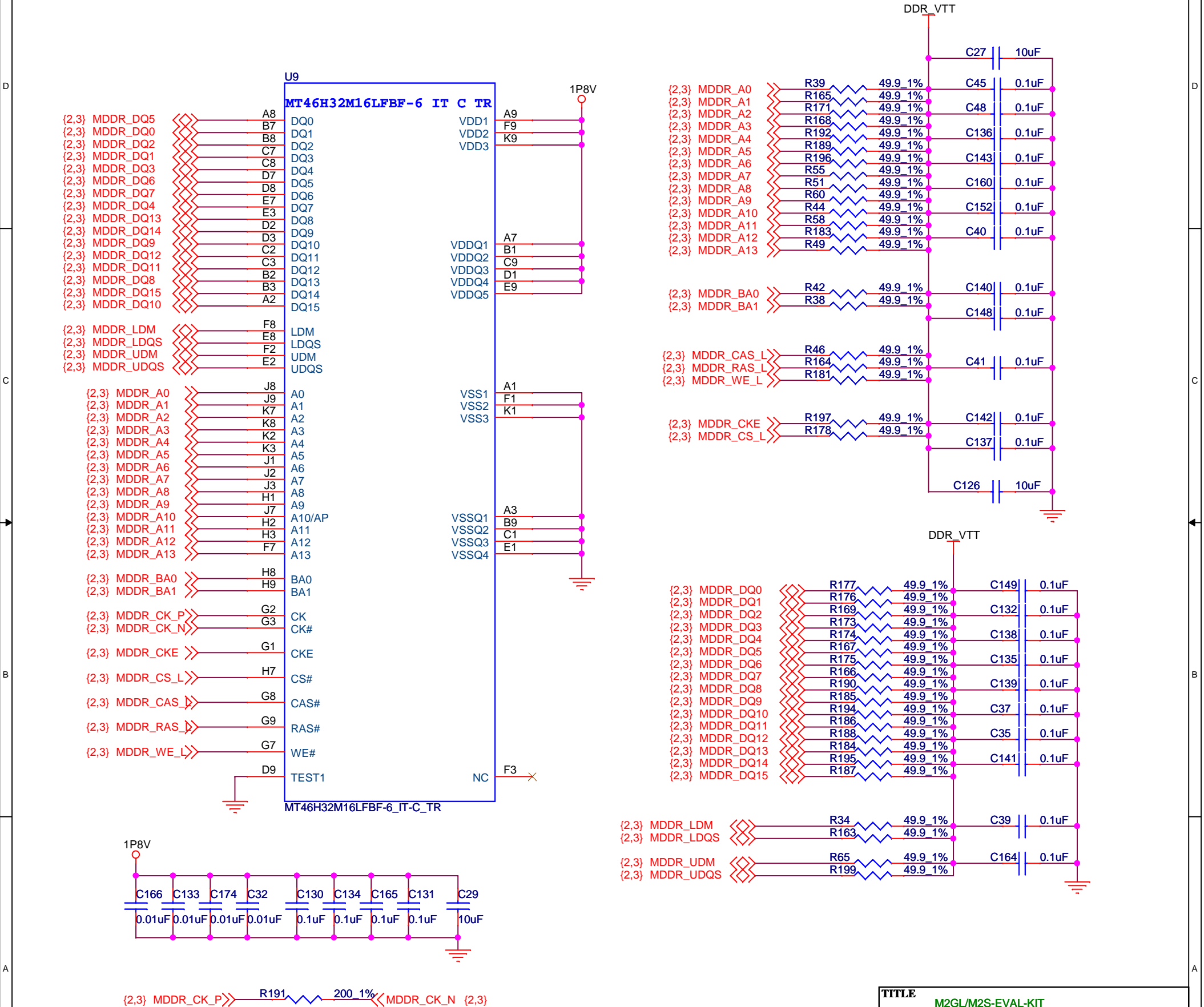
# MDDR - BANK0 INTERFACES



M2GL/M2S010T-1FGG484

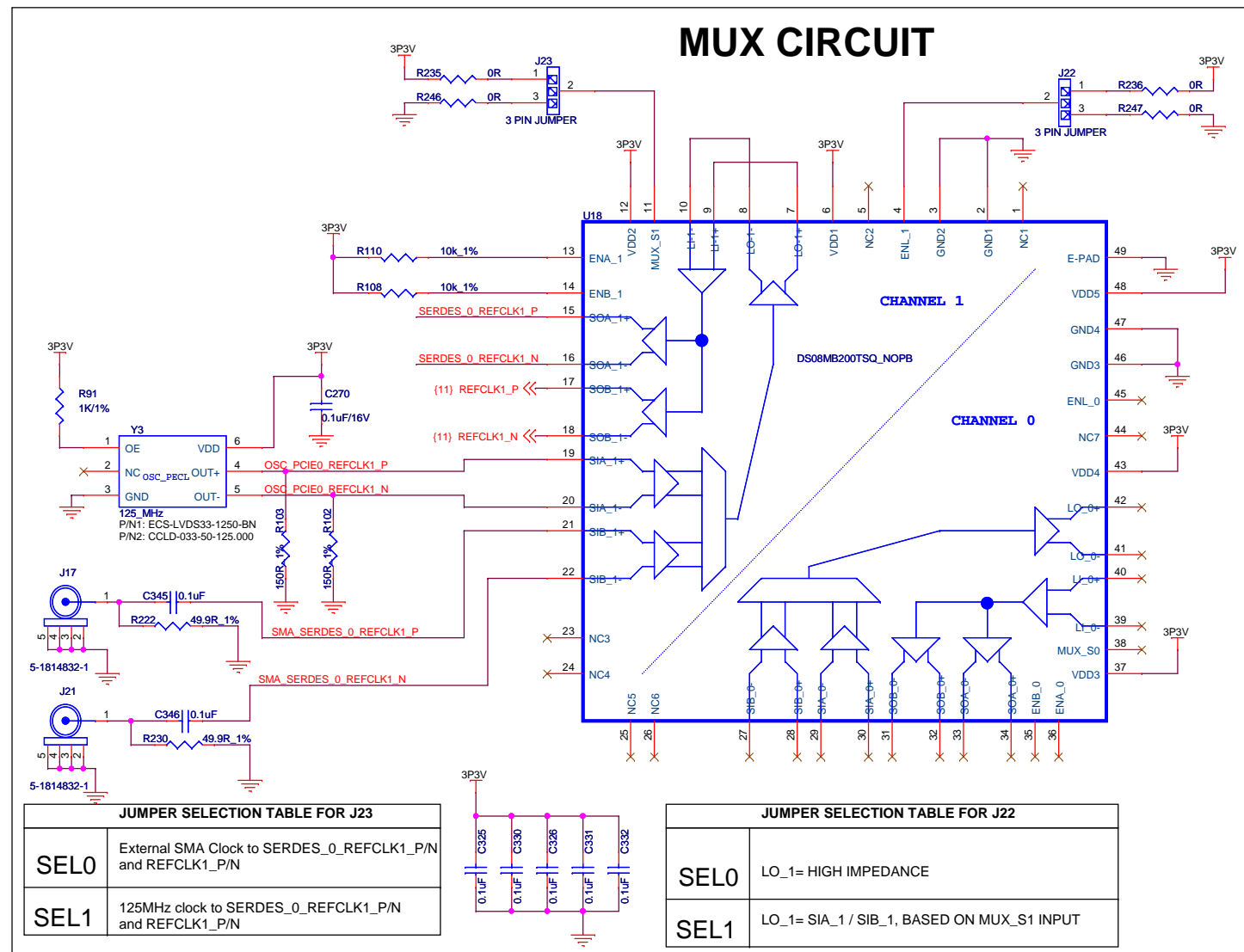
TITLE		
M2GL/M2S-EVAL-KIT		
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# LPDDR MEMORY INTERFACE



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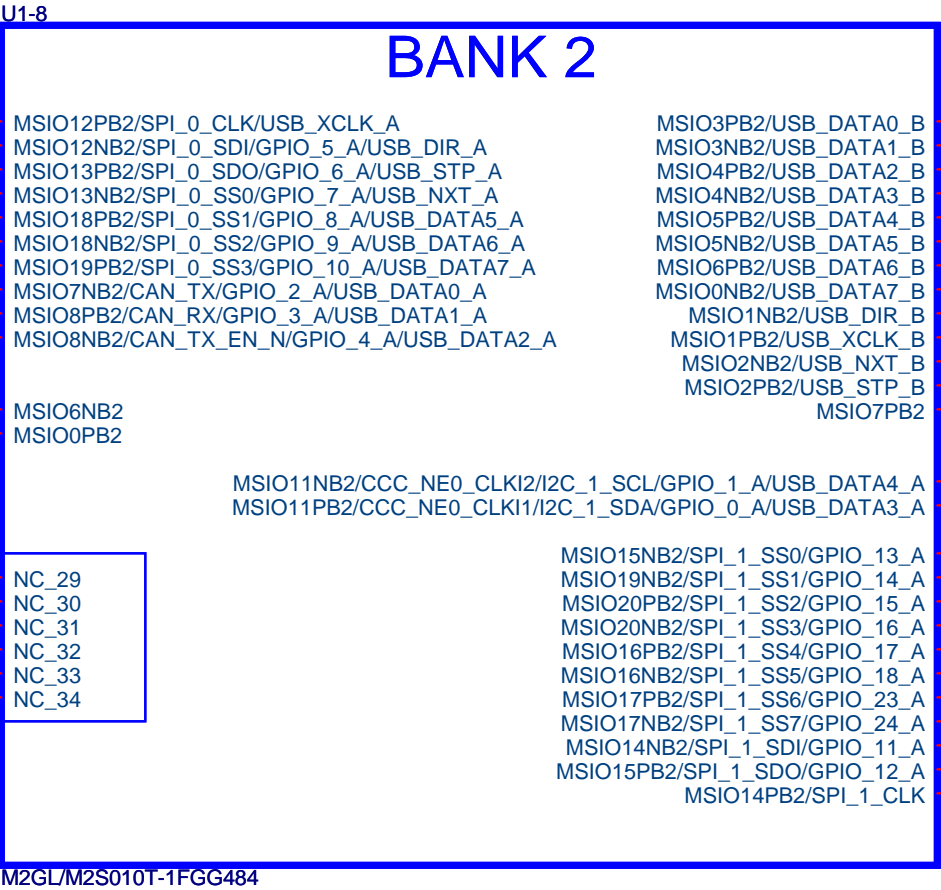
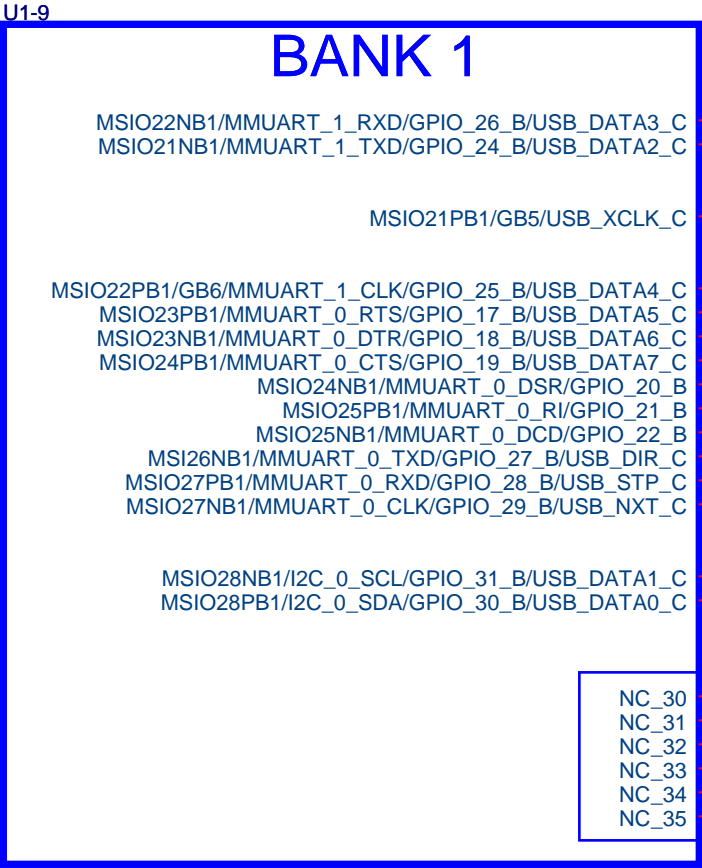
## MUX CIRCUIT



JUMPER SELECTION TABLE FOR J22	
SEL0	LO_1= HIGH IMPEDANCE
SEL1	LO_1= SIA_1 / SIB_1, BASED ON MUX_S1 INPUT

<b>TITLE</b>			
M2GL/M2S-EVAL-KIT			
<b>Microsemi</b>			
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BANK1 & BANK2 CONNECTIONS



{8} SPI\_SCK >>>  
{8} SPI\_SDI >>>  
{8} SPI\_SDO >>>  
{8} SPI\_SS >>>  
{8} SPI\_WP >>>  
{8} SPI\_RESET >>>

{4} PCIE1\_PERSTn <<<

N19  
N20  
N21  
N22  
L16  
K15  
K17  
P16  
N16  
N17

P18  
U19

J22  
K22  
M16  
M17  
M18  
M19

V22 <<< USB\_DATA0 {10}  
V21 <<< USB\_DATA1 {10}  
U22 <<< USB\_DATA2 {10}  
U21 <<< USB\_DATA3 {10}  
T20 <<< USB\_DATA4 {10}  
T21 <<< USB\_DATA5 {10}  
P17 <<< USB\_DATA6 {10}  
V19 <<< USB\_DATA7 {10}  
R18 <<< USB\_DIR {10}  
R17 <<< USB\_CLKOUT {10}  
T19 <<< USB\_NXT {10}  
T18 <<< USB\_STP {10}  
R16 <<< USB\_RESET {10}

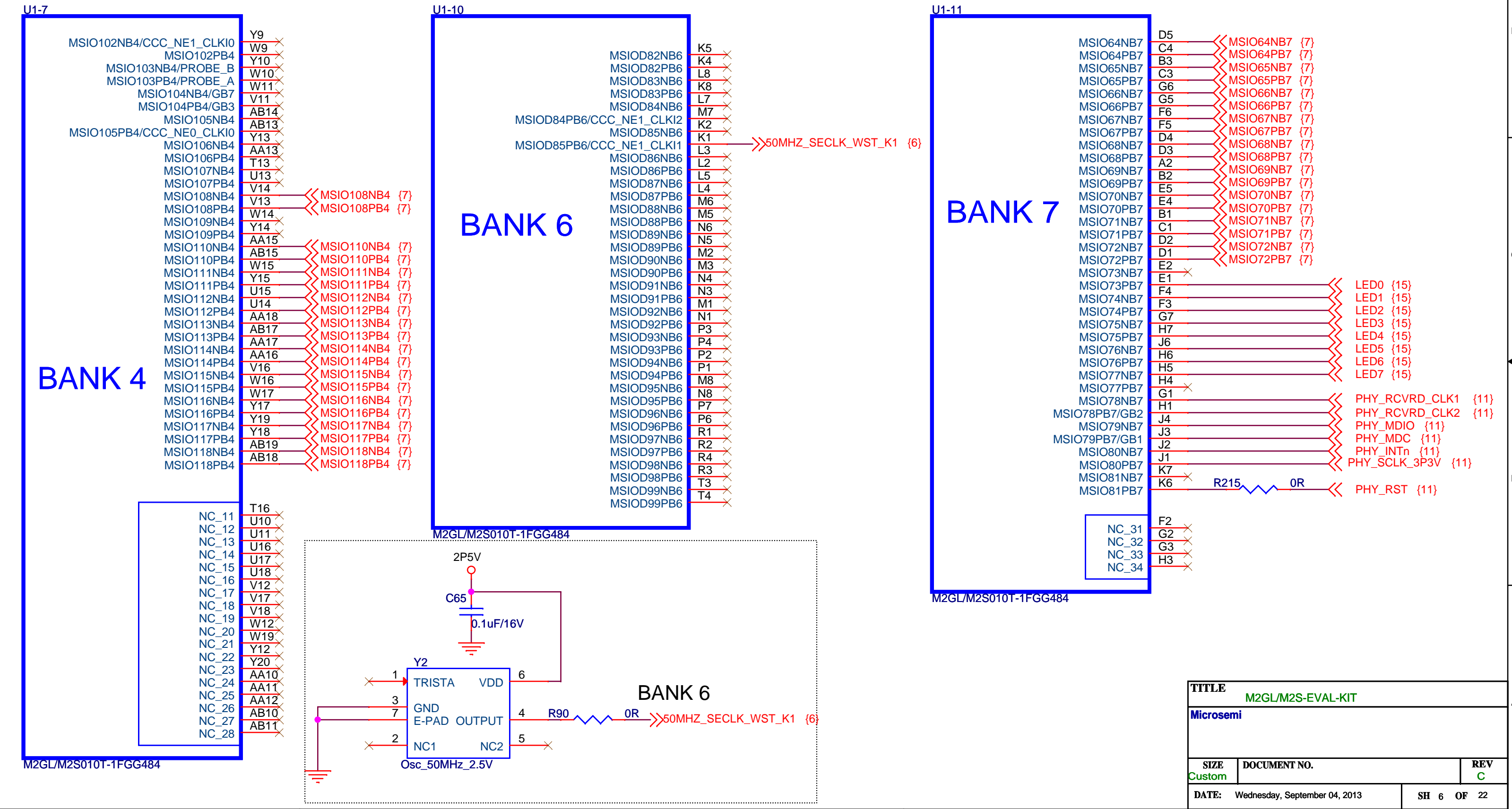
R22 <<< I2C1\_SCL {8}  
P22 <<< I2C1\_SDA {8}

L20 <<< SWITCH1 {15}  
K16 <<< SWITCH2 {15}  
K18 <<< SWITCH3 {15}  
J18 <<< SWITCH4 {15}  
L19 <<< DIP1 {15}  
L18 <<< DIP2 {15}  
K21 <<< DIP3 {15}  
K20 <<< DIP4 {15}

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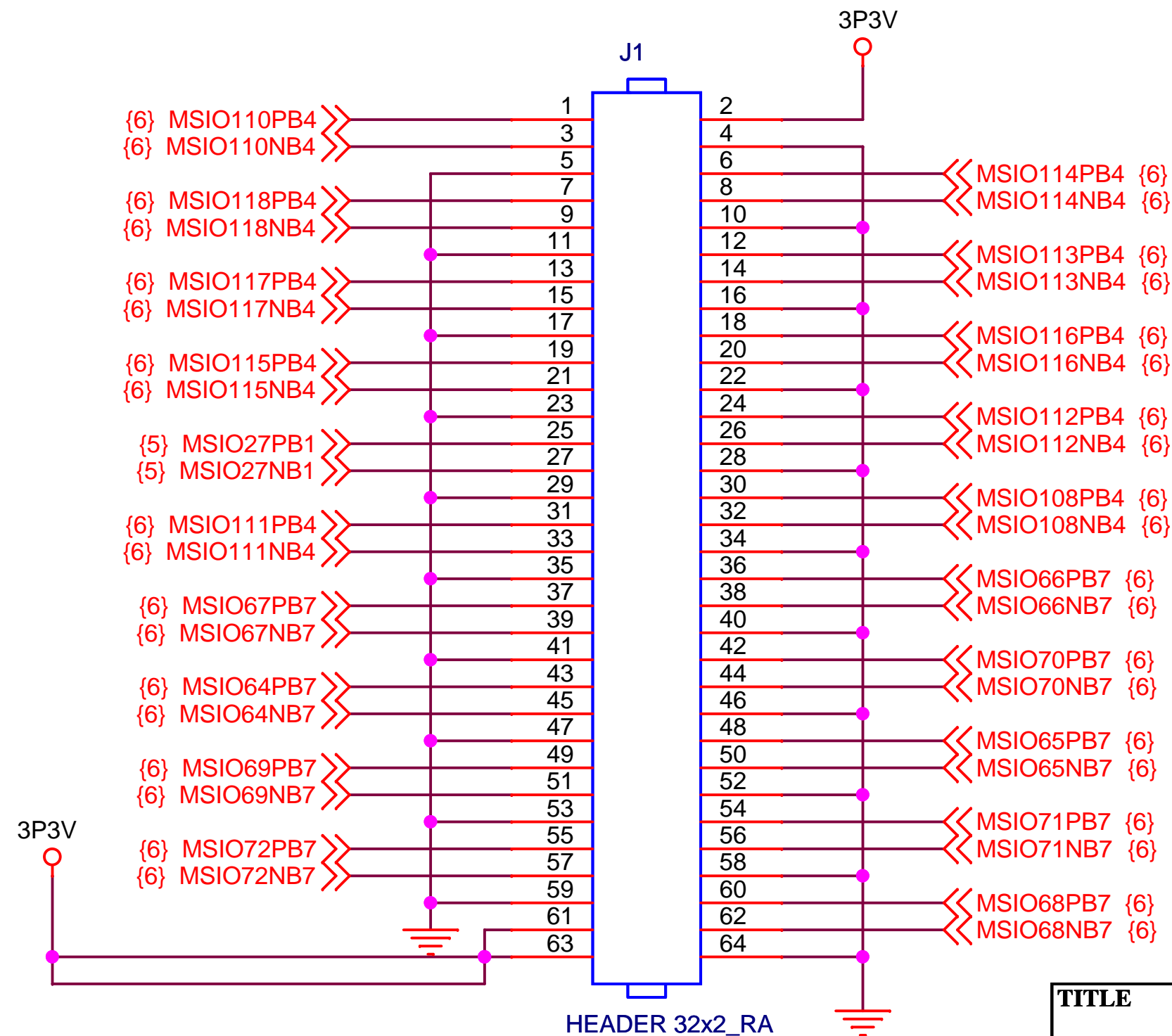


# BANK 4, 6 and 7 CONNECTIONS



TITLE		
M2GL/M2S-EVAL-KIT		
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# GPIO HEADER

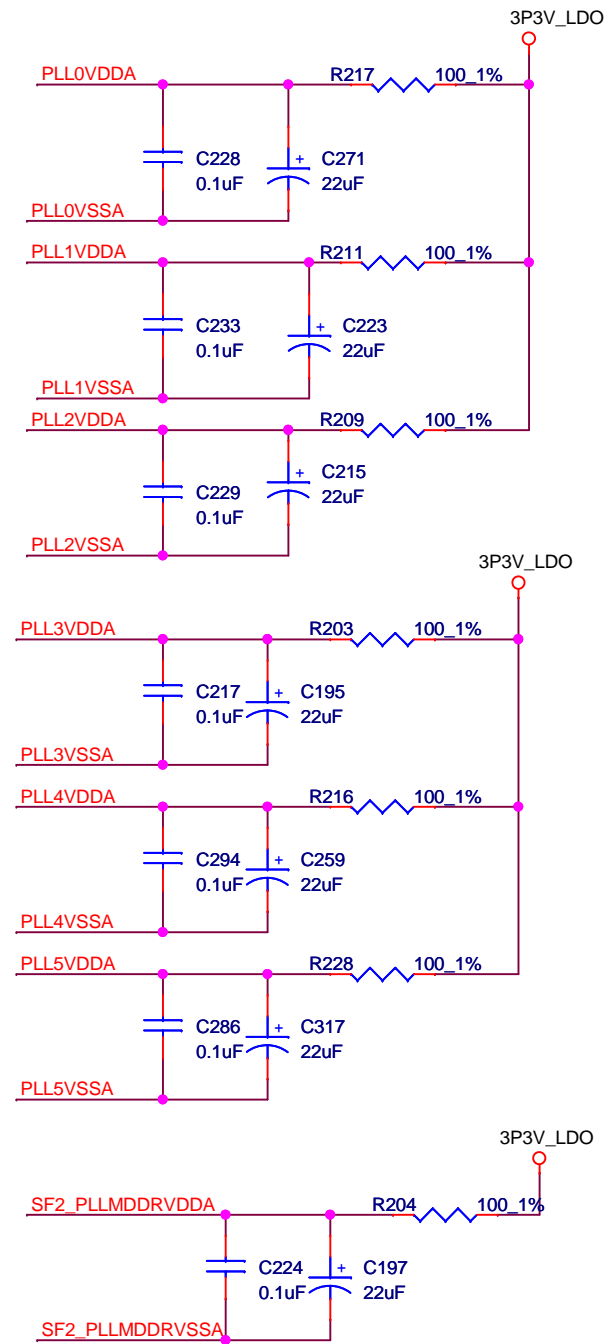
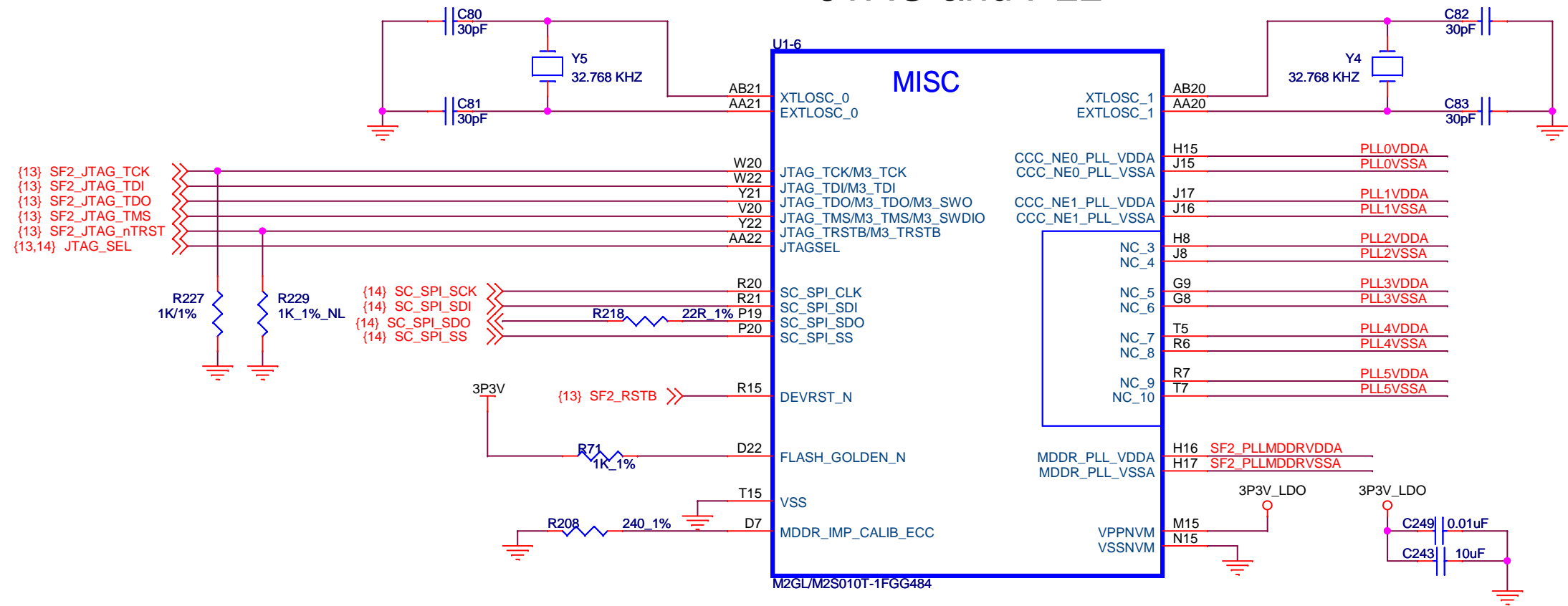


MANUFACTURER P/N = TSW-132-08-T-D-RA  
MANUFACTURER = Samtec

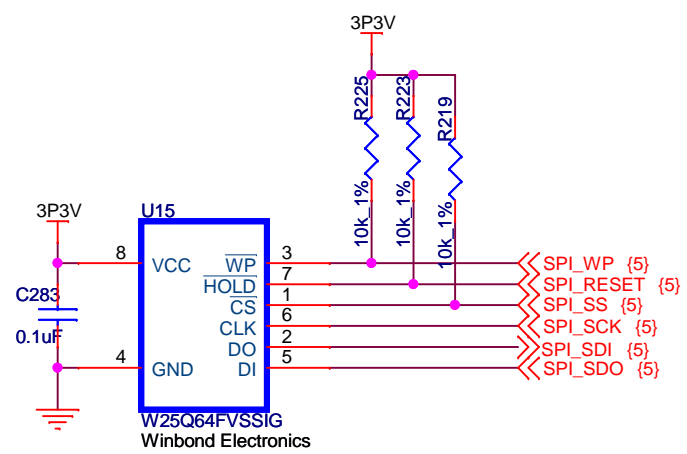
MATING RECEPTACLE P/N: SSW-132-02-S-D-RA  
MANUFACTURER: Samtec

TITLE		
M2GL/M2S-EVAL-KIT		
Microsemi		
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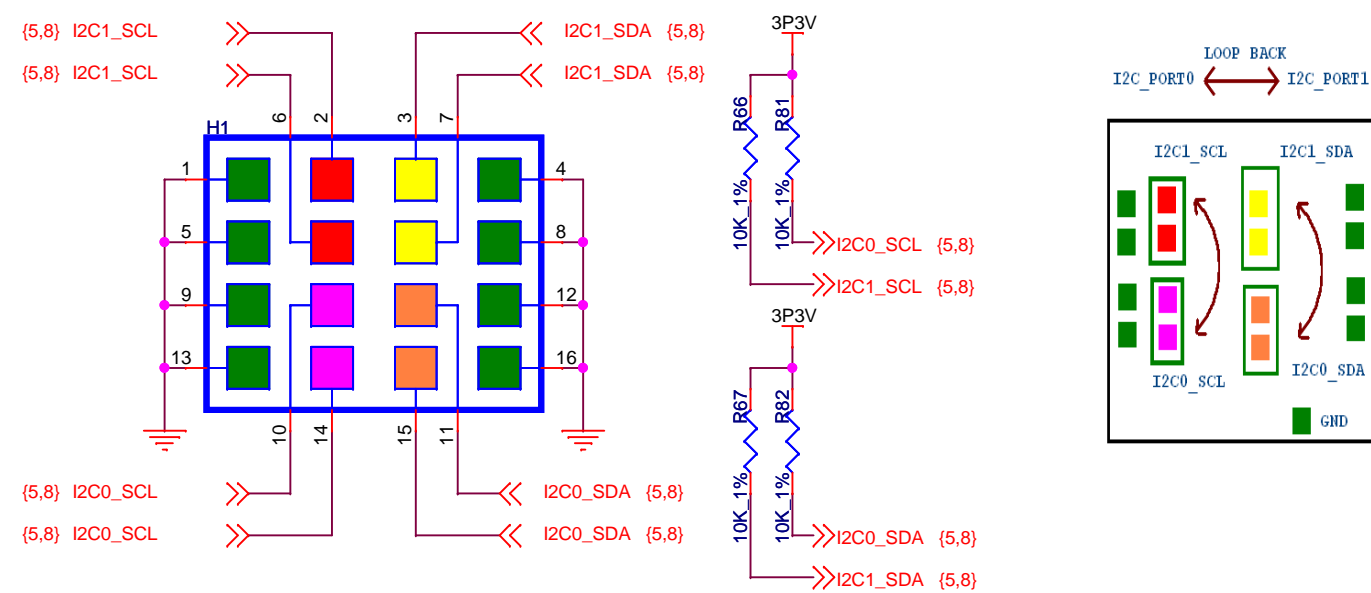
# JTAG and PLL



## SPI FLASH INTERFACE



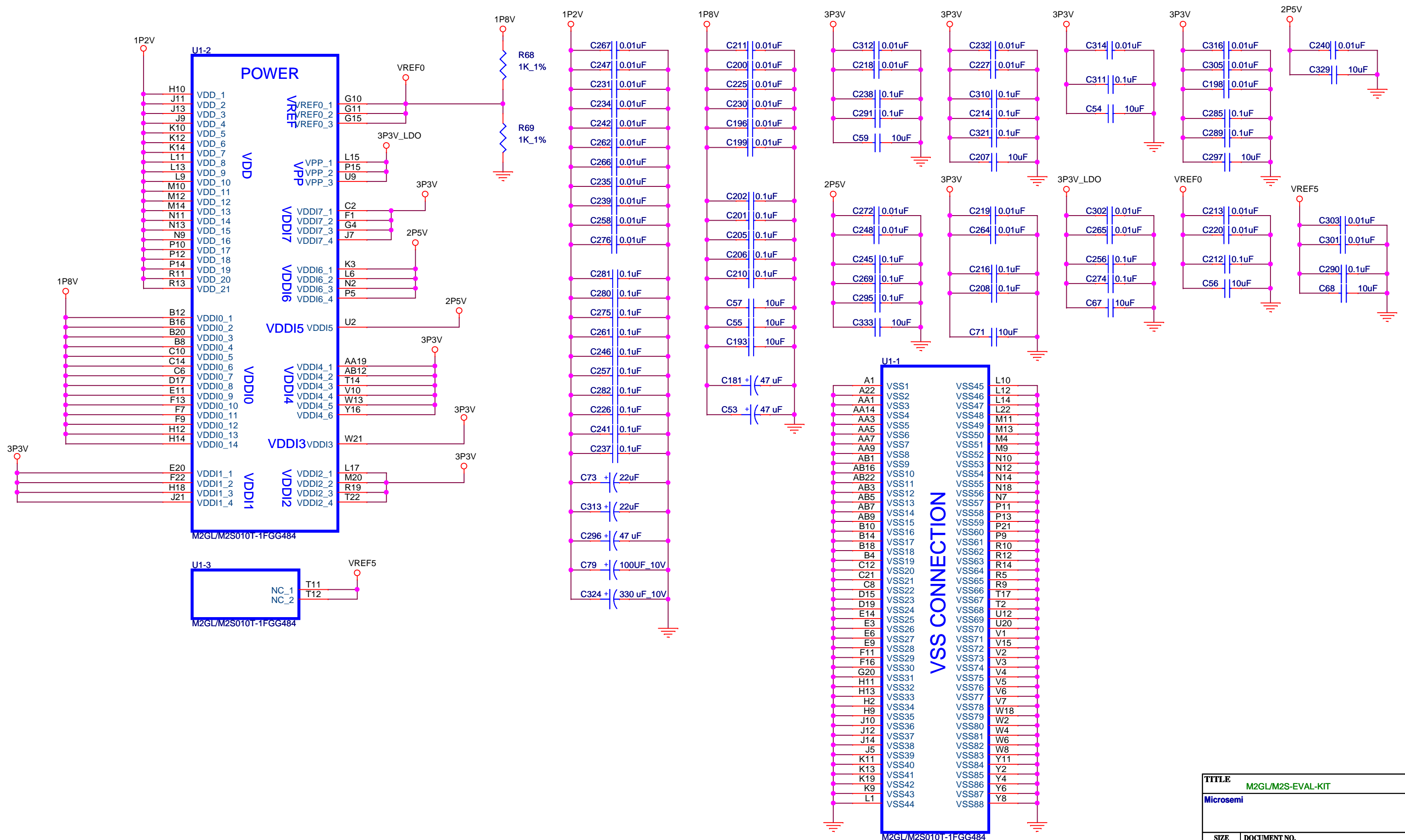
## I2C PORT HEADER



TITLE		
M2GL/M2S-EVAL-KIT		
Microsemi		
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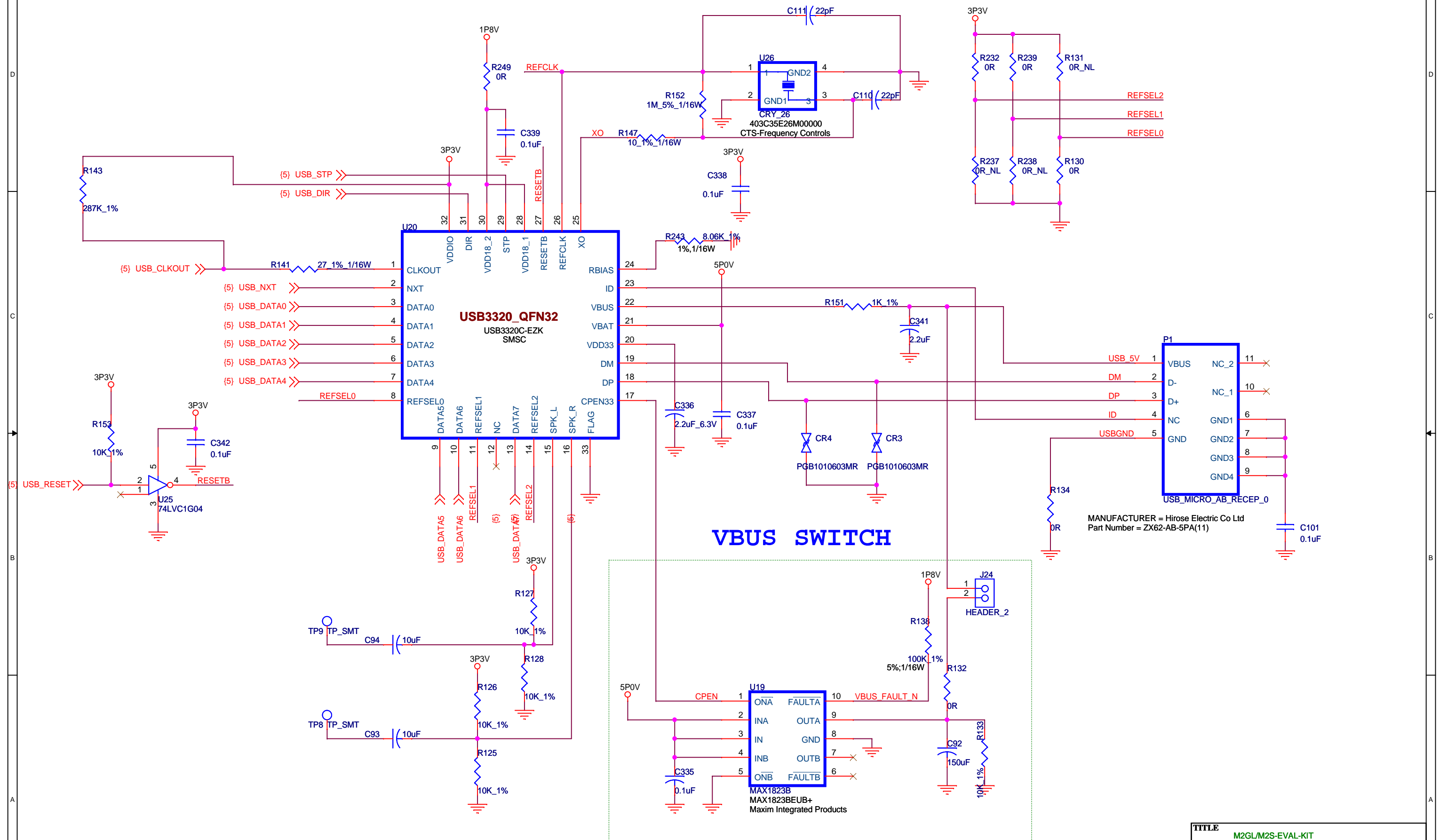
## SF2-POWER, GND AND DECOUPLING CAPACITORS



<b>TITLE</b>			
M2GL/M2S-EVAL-KIT			
Microsemi			
<b>SIZE</b> B	<b>DOCUMENT NO.</b>		<b>REV</b> C
<b>DATE:</b> Wednesday, September 04, 2013		<b>SH</b> 9	<b>OF</b> 22

# USB Interface

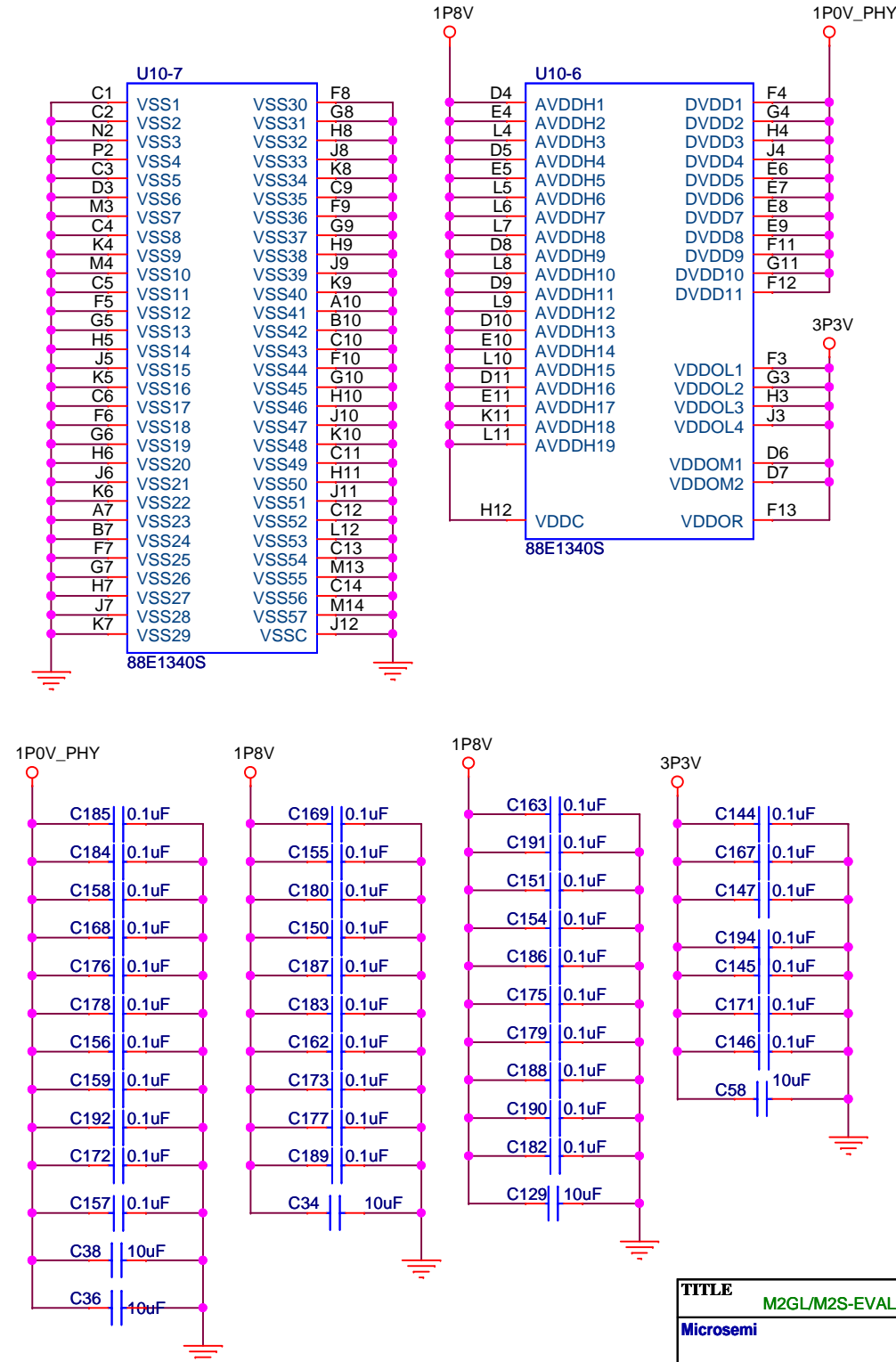
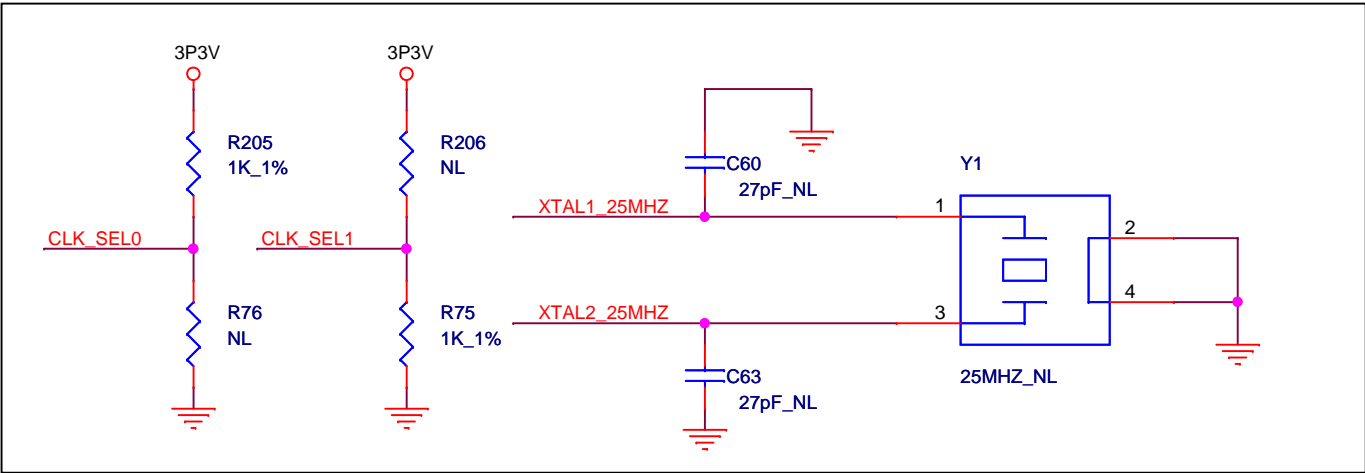
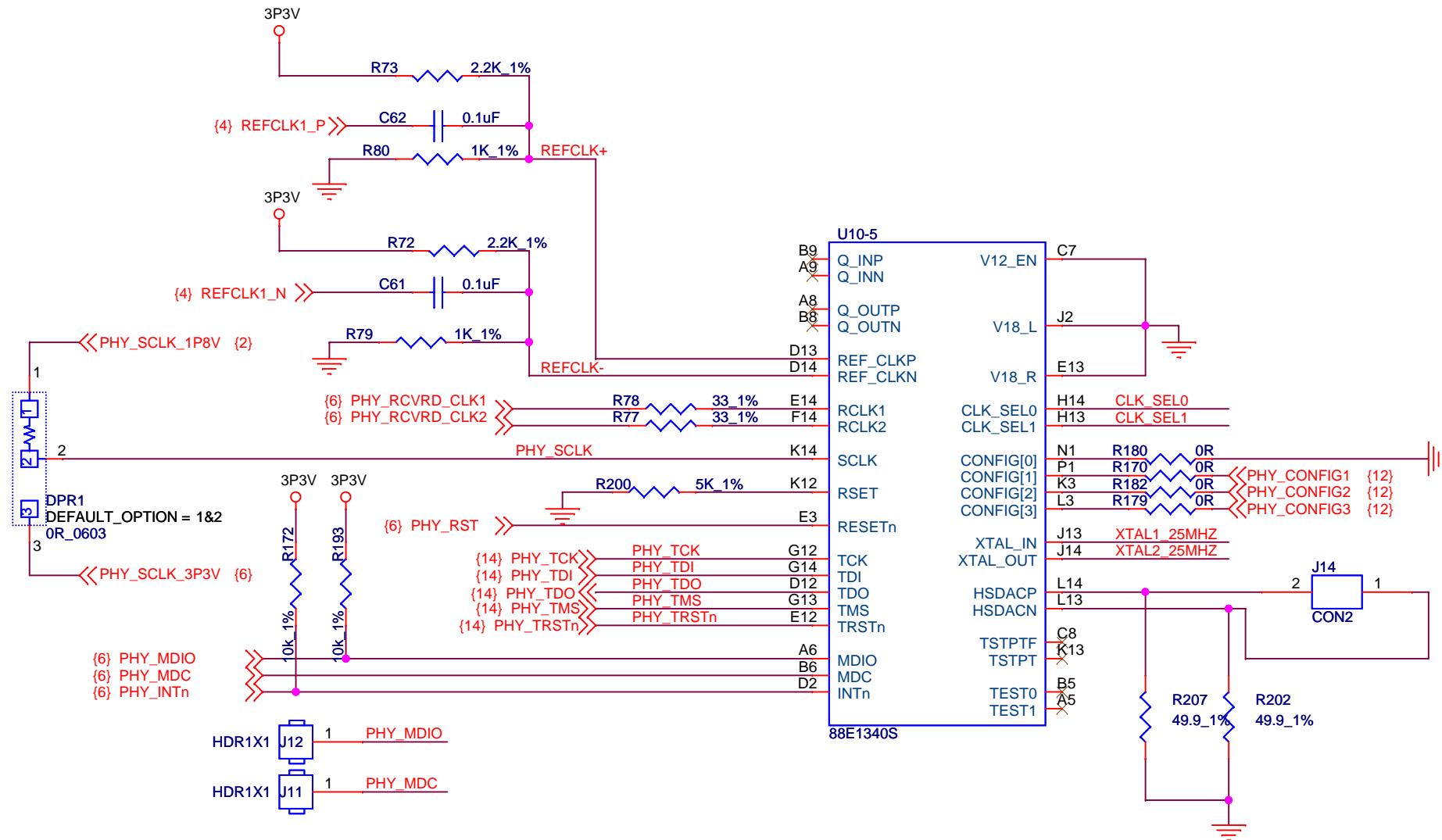
Schematic shows 26.0 MHz Configuration.  
REFCLK[2:0] = 110



<b>TITLE</b>			
M2GL/M2S-EVAL-KIT			
<b>Microsemi</b>			
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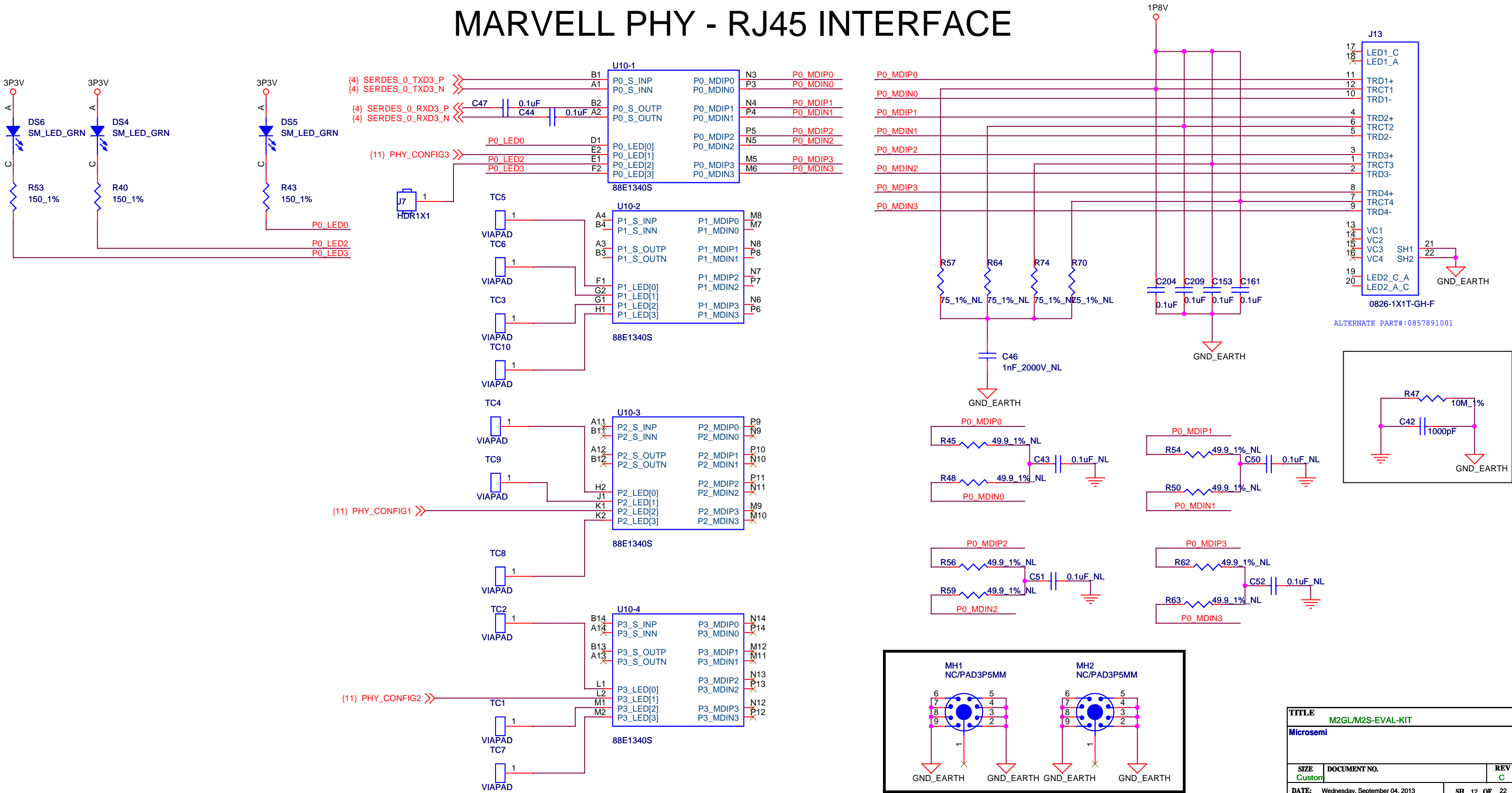
# MARVELL PHY INTERFACE

need to check voltage swing level



TITLE		
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Microsemi		
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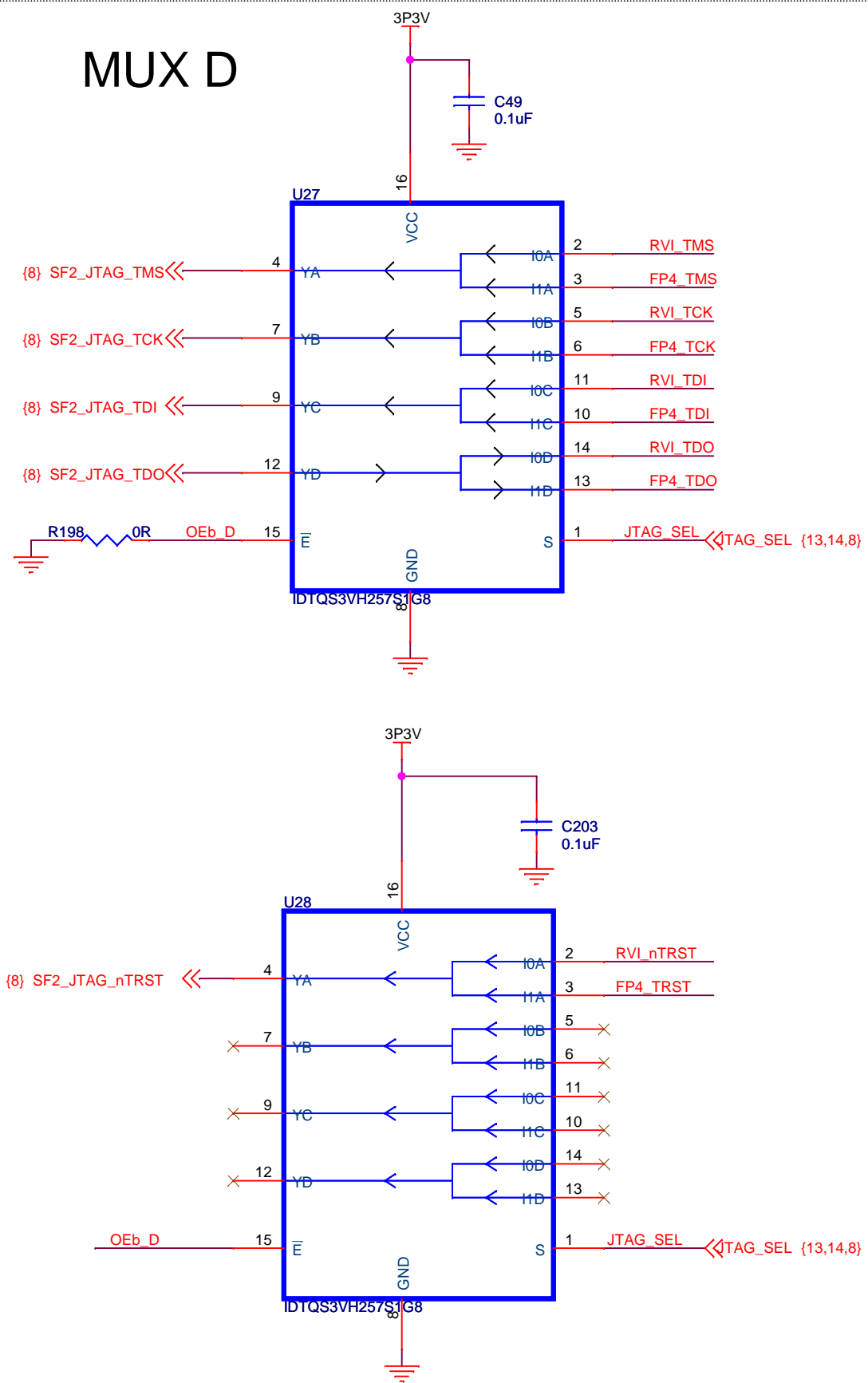
# MARVELL PHY - RJ45 INTERFACE



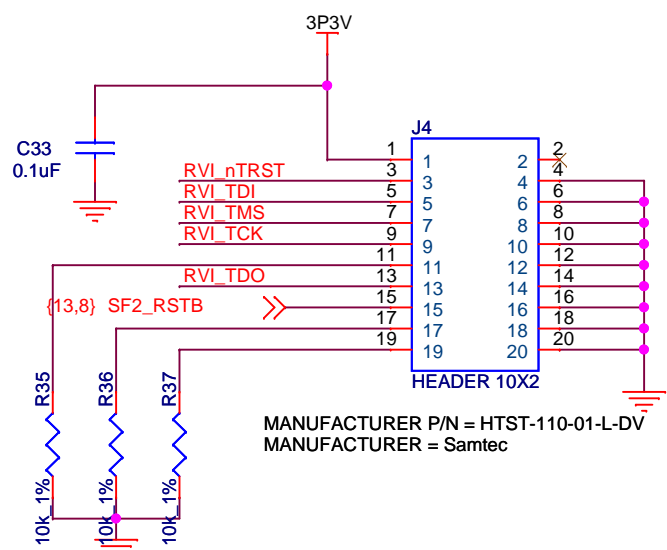
TITLE		
M2GL/M2S-EVAL-KIT		
Microsemi		
SIZE	DOCUMENT NO.	REV
Custom		C
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# PROGRAMMING CIRCUITRY

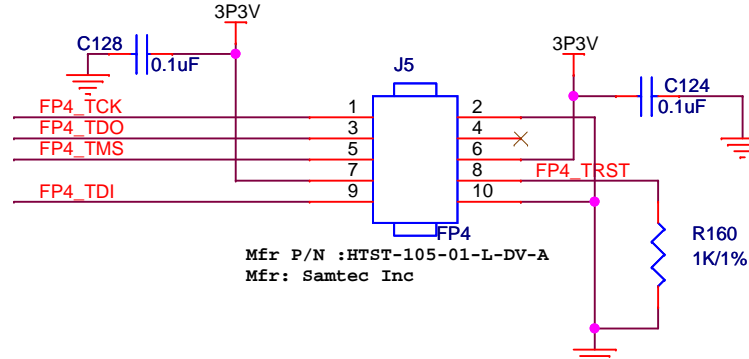
## MUX D



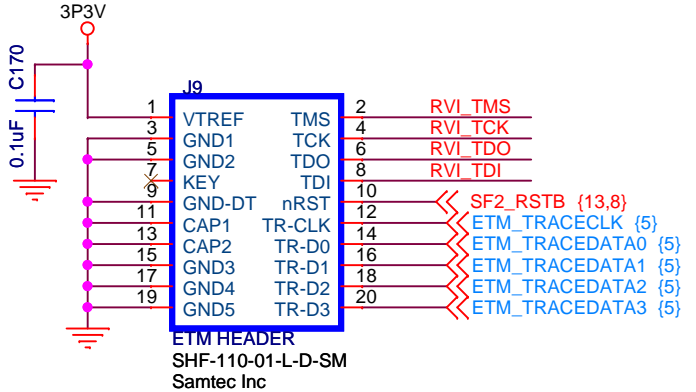
## RVI HEADER



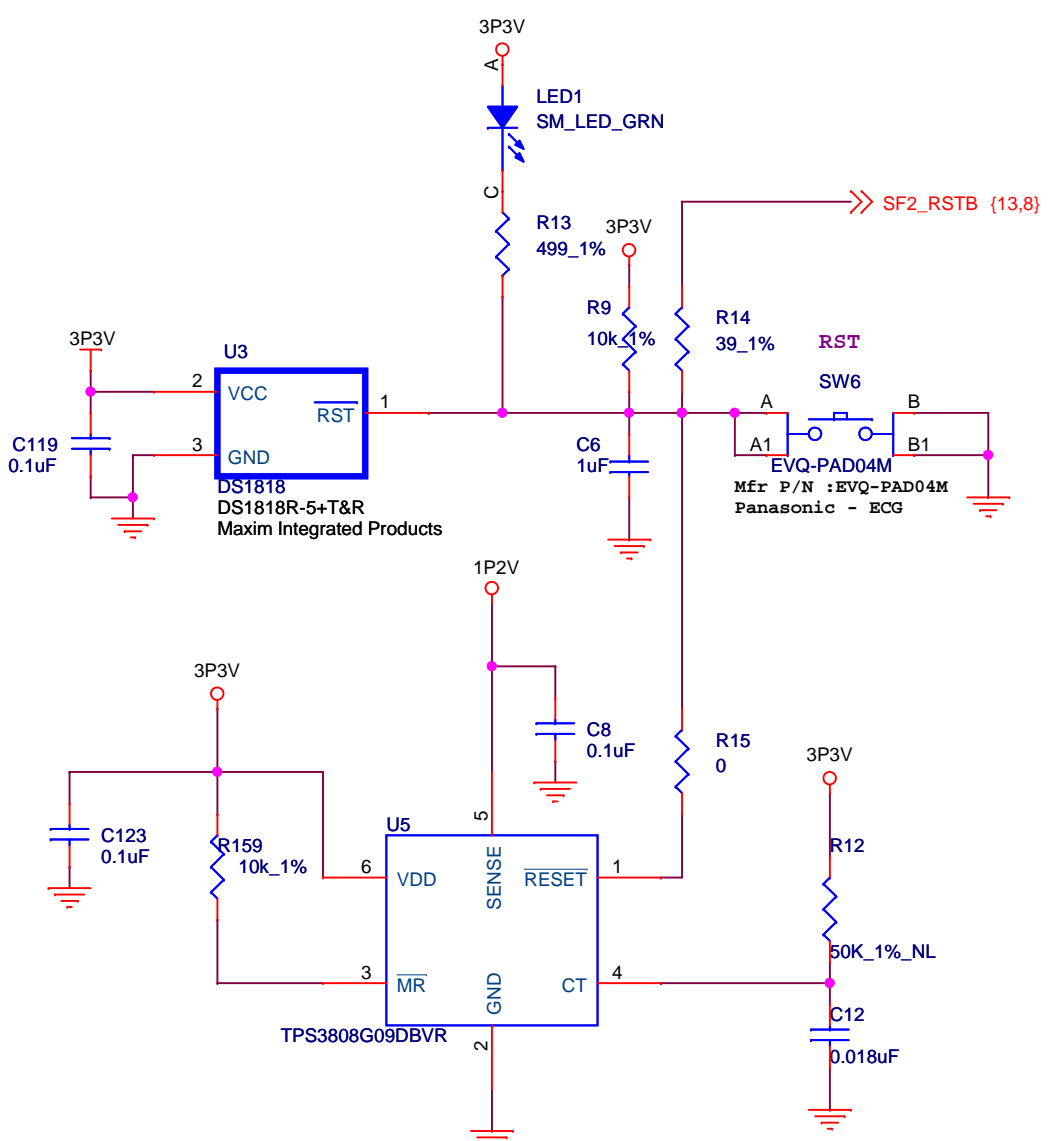
## FP4 HEADER



## TRACE ETM HEADER

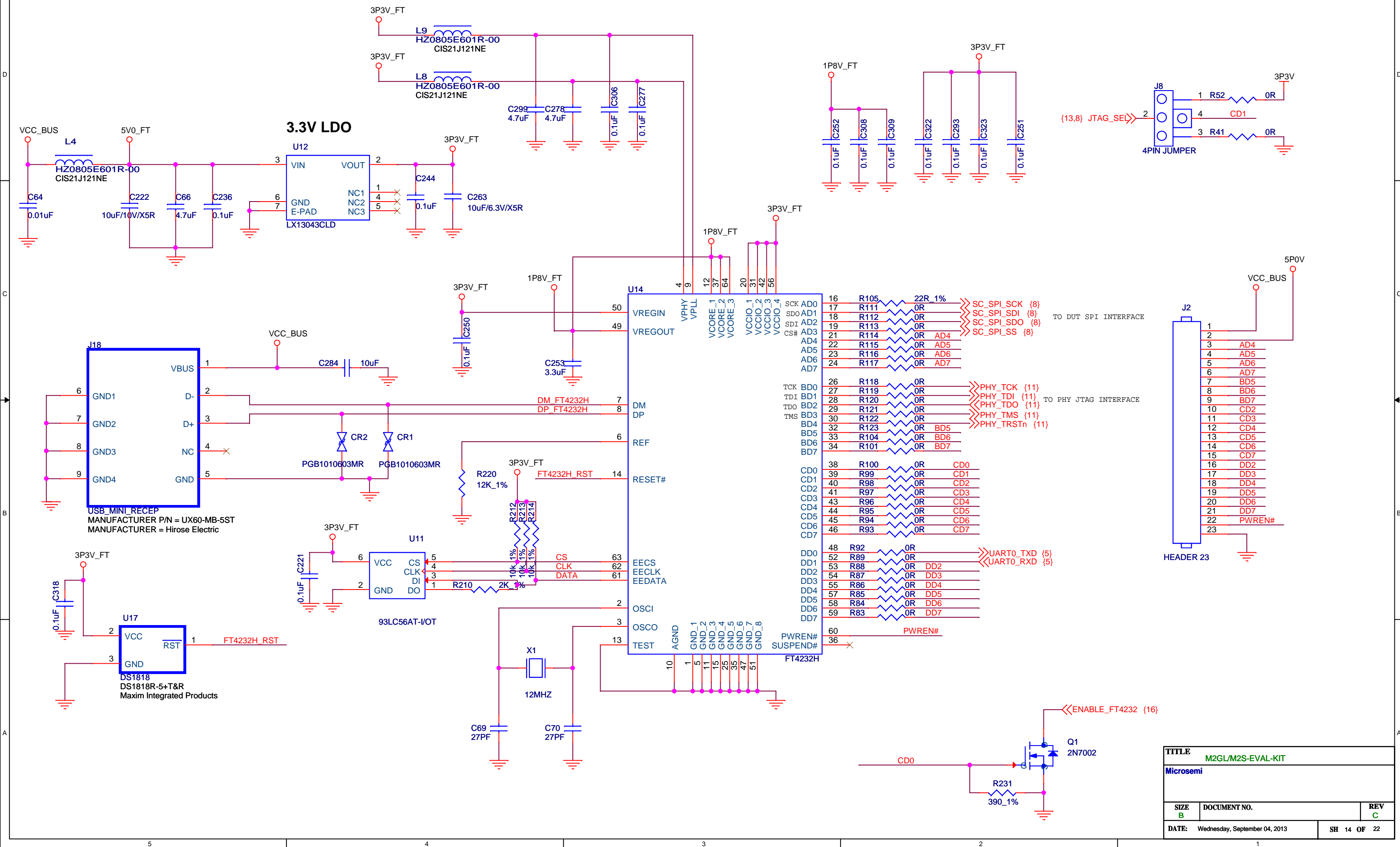


## RESET



TITLE		
M2GL/M2S-EVAL-KIT		
Microsemi		
SIZE	DOCUMENT NO.	REV
Custom		C
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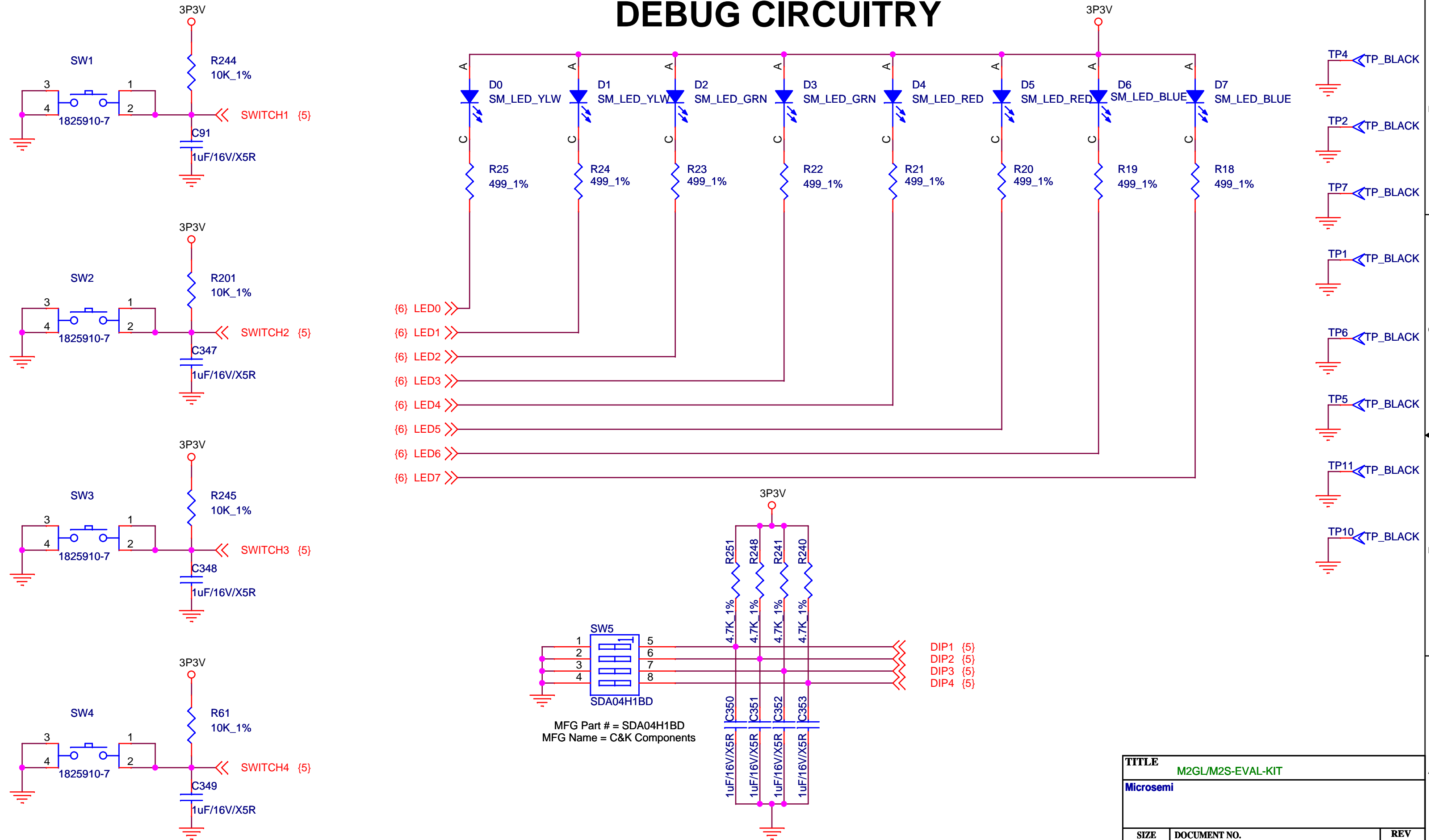
FT4232H CIRCUITRY



TITLE		
M2GL/M2S-EVAL-KIT		
Microsemi		
SIZE	DOCUMENT NO.	REV
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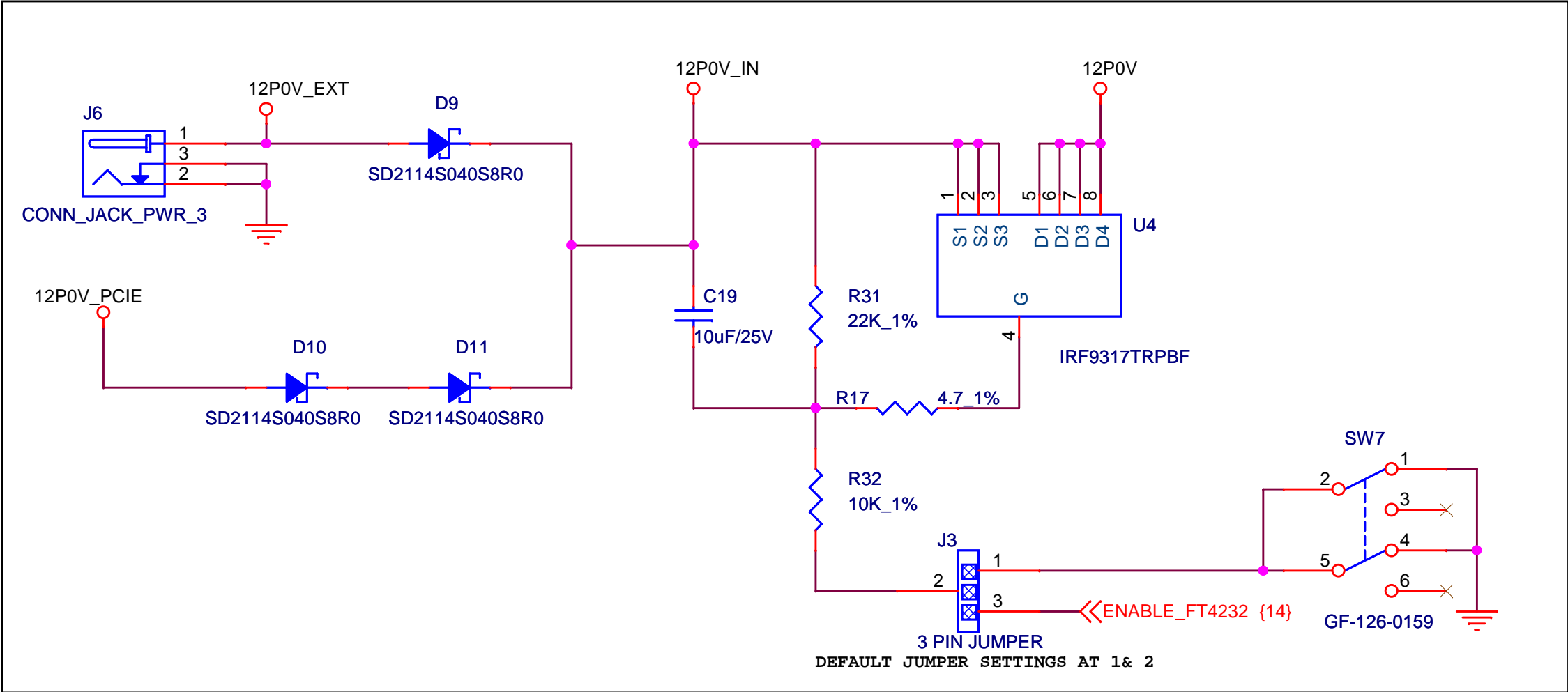


# DEBUG CIRCUITRY



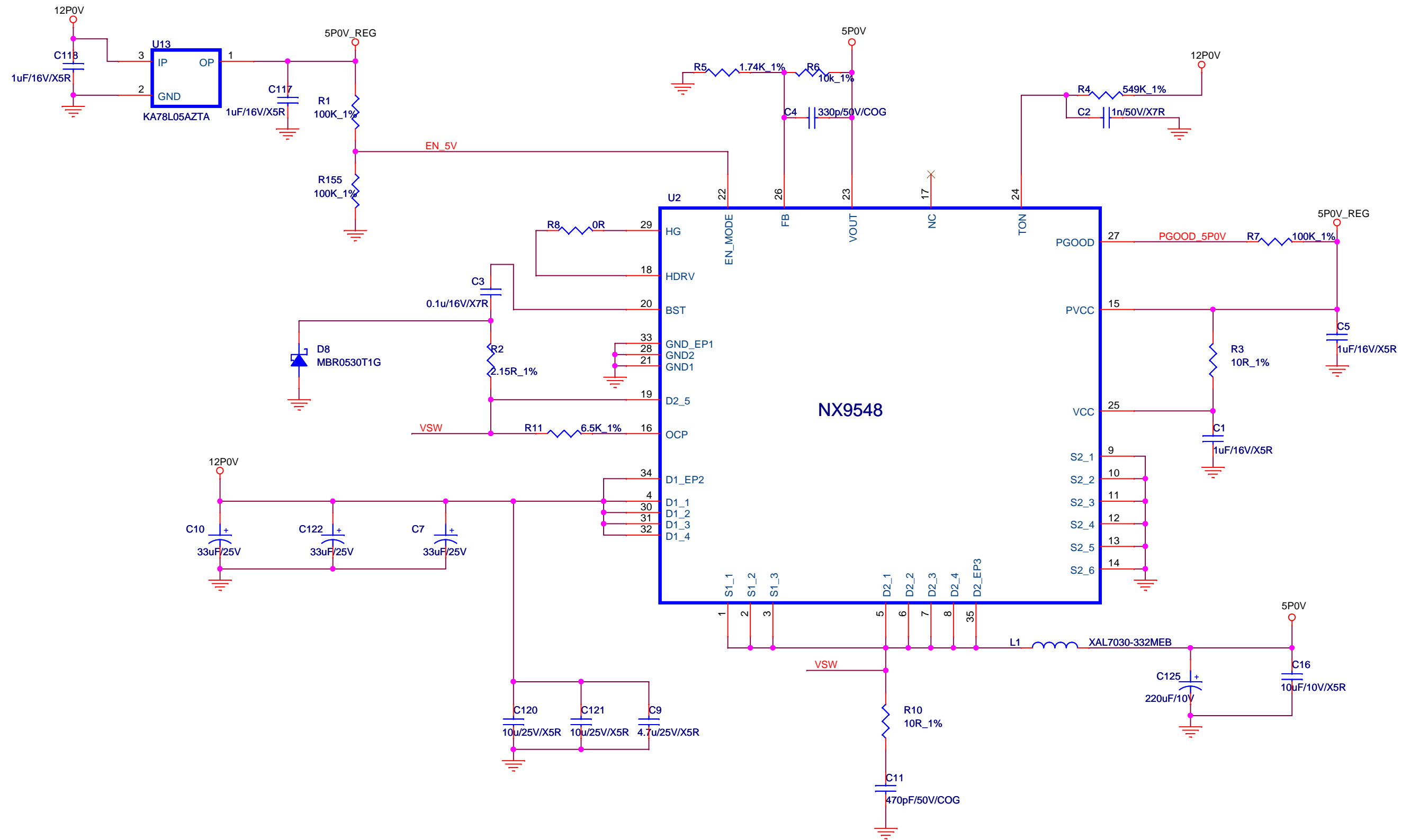
TITLE		
M2GL/M2S-EVAL-KIT		
Microsemi		
SIZE	DOCUMENT NO.	REV
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# POWER SUPPLY 1



TITLE		
M2GL/M2S-EVAL-KIT		
Microsemi		
SIZE	DOCUMENT NO.	REV
A		C
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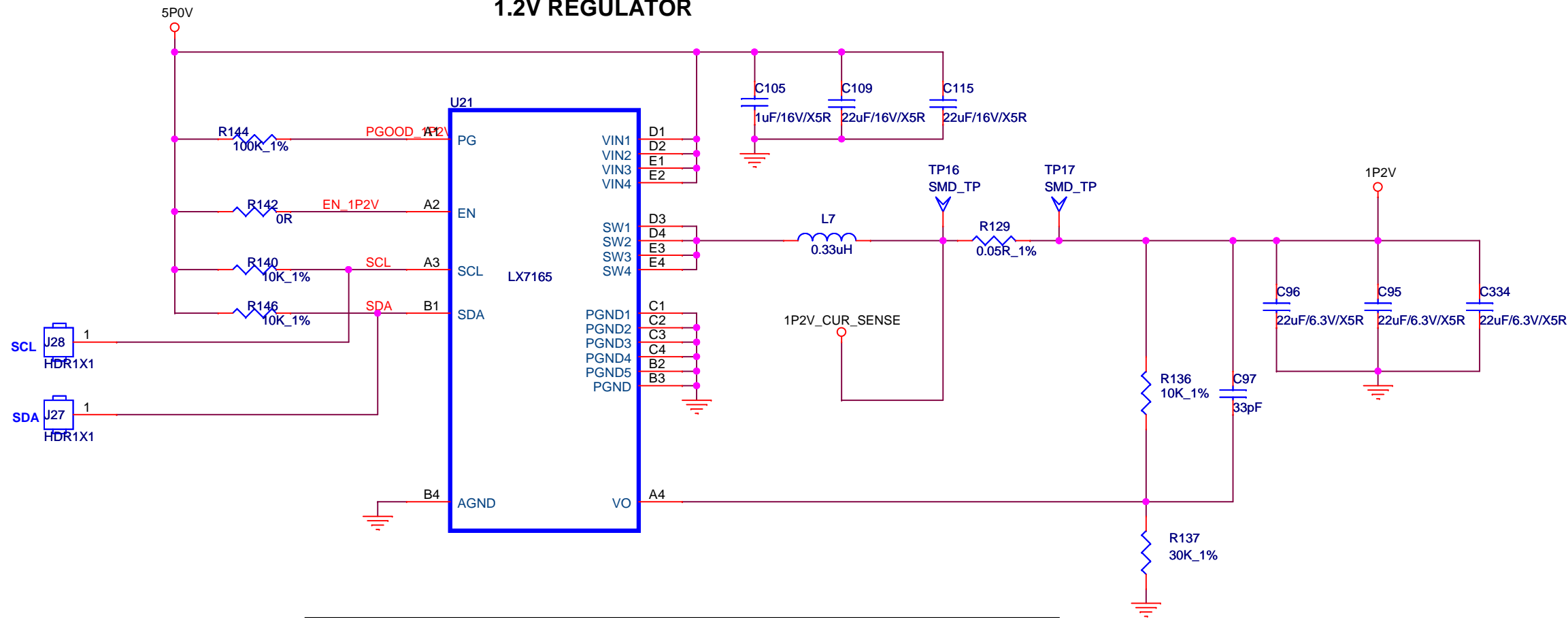
POWER SUPPLY 2



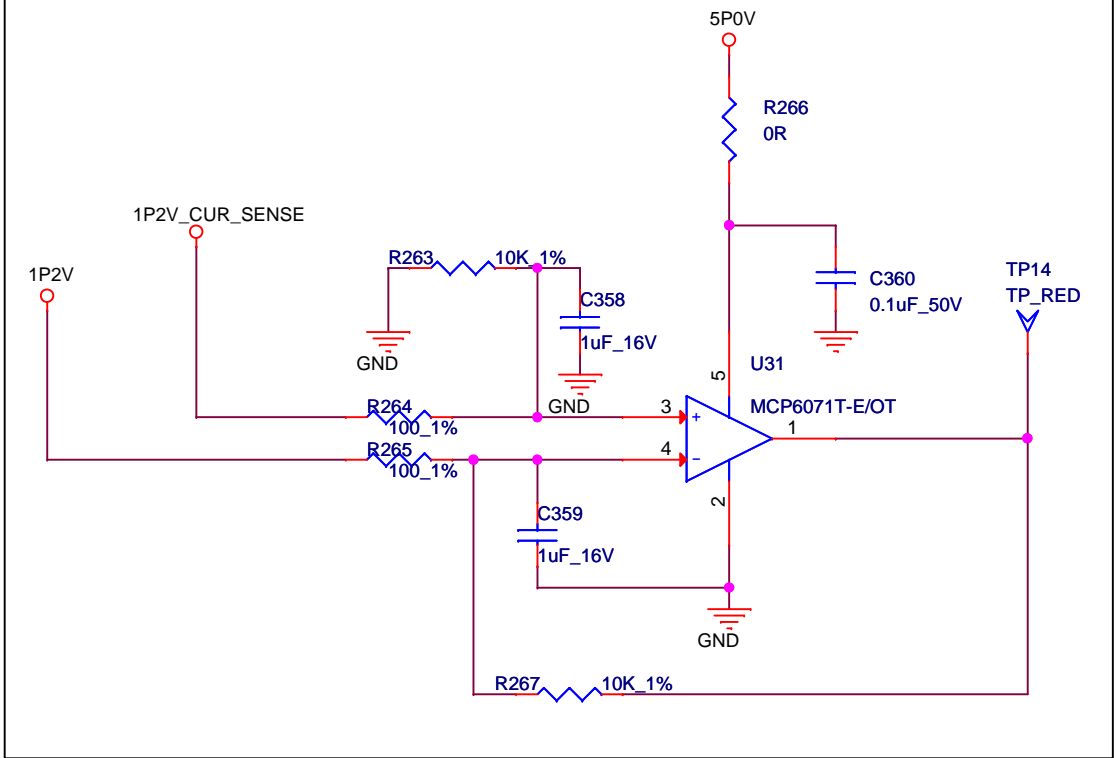
TITLE		
M2GL/M2S-EVAL-KIT		
Microsemi		
SIZE	DOCUMENT NO.	REV
B		C
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# POWER SUPPLY 3

## 1.2V REGULATOR



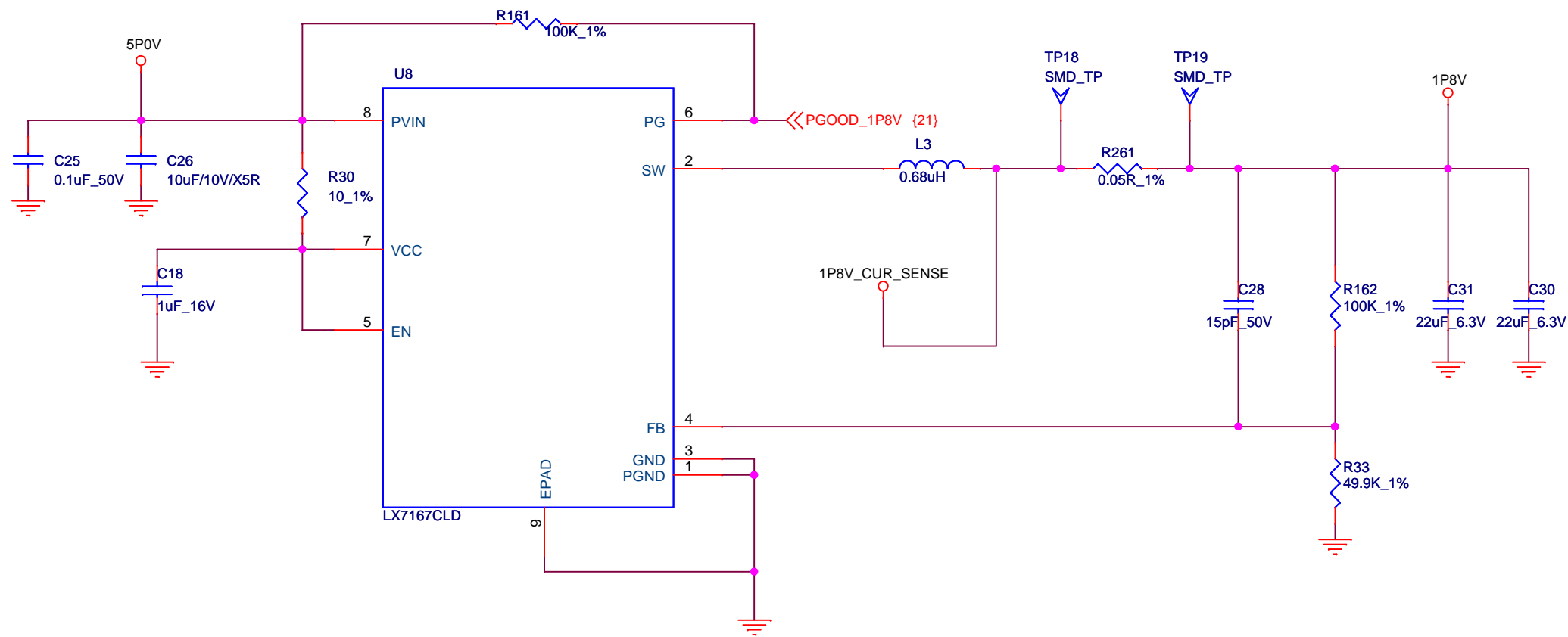
## 1.2V CURRENT SENSING CIRCUIT



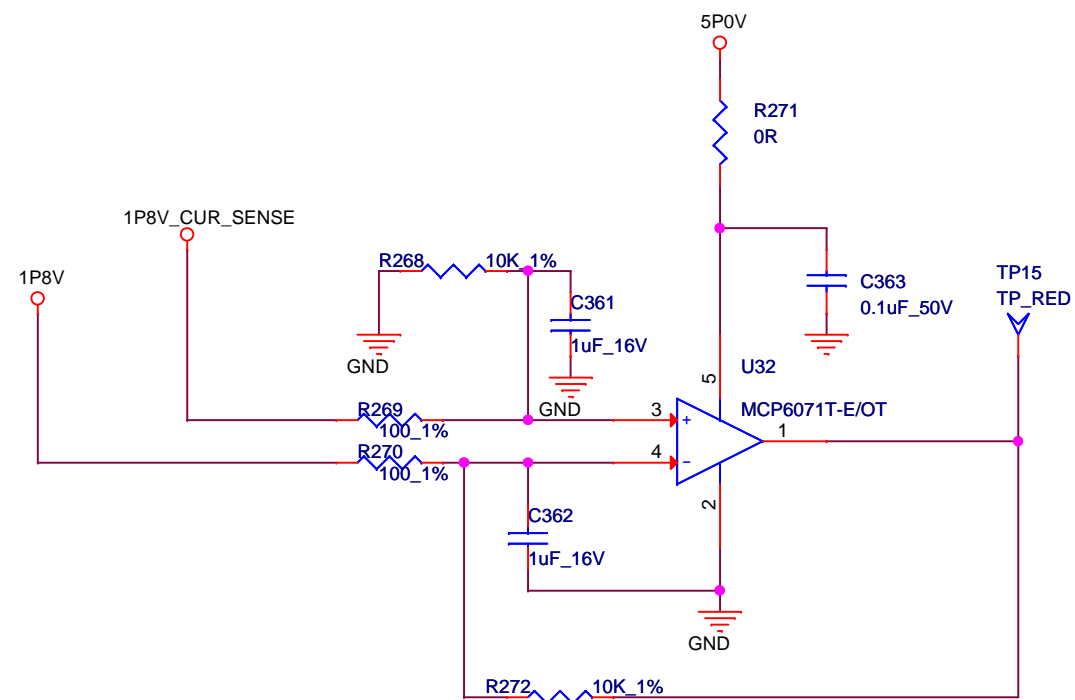
TITLE		
M2GL/M2S-EVAL-KIT		
Microsemi		
SIZE	DOCUMENT NO.	REV
B		C
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# POWER SUPPLY 4

## 1.8V REGULATOR



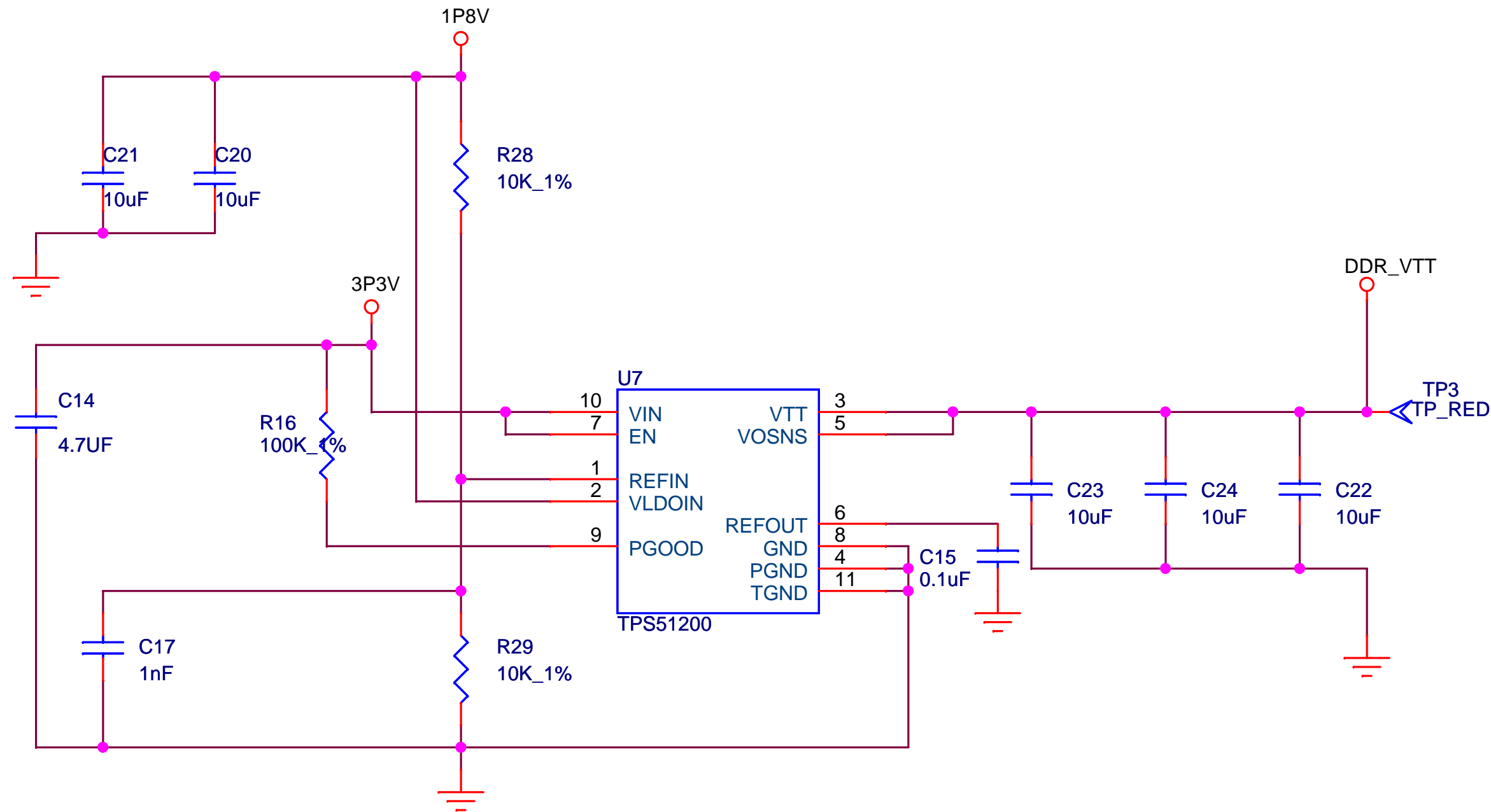
## 1.8V CURRENT SENSING CIRCUIT



TITLE		
M2GL/M2S-EVAL-KIT		
Microsemi		
SIZE	DOCUMENT NO.	REV
B		C
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# POWER SUPPLY 5

## 0.9V FOR DDR

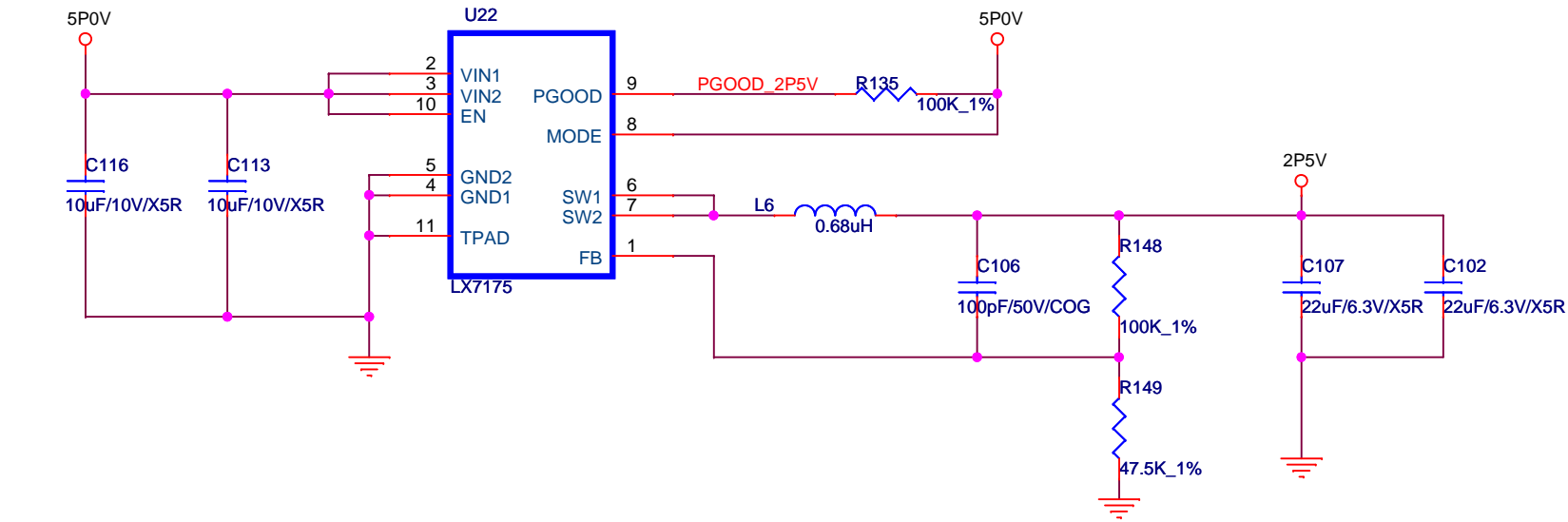


TITLE			M2GL/M2S-EVAL-KIT		
Microsemi					
SIZE	DOCUMENT NO.				REV
Custom					C
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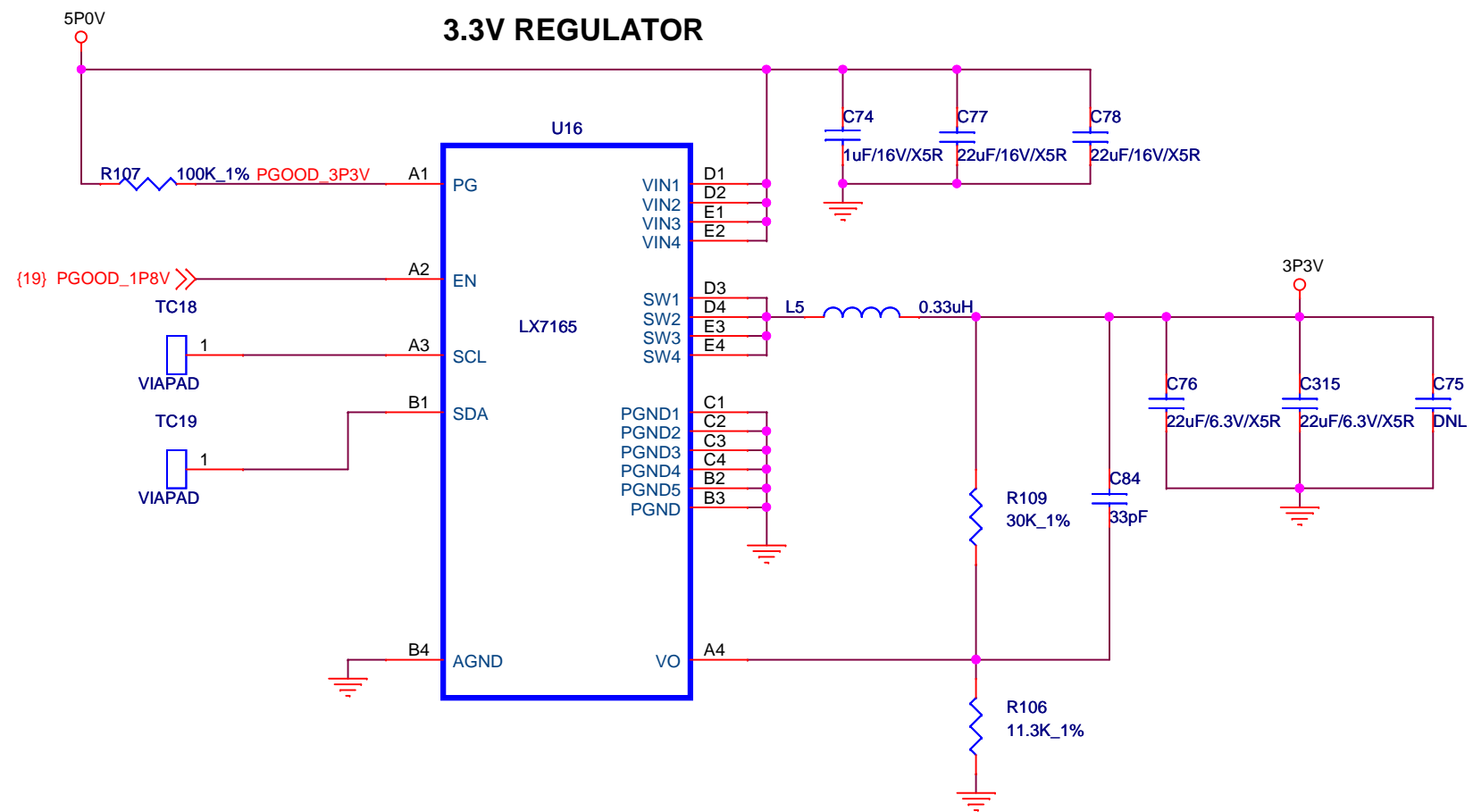


# POWER SUPPLY 6

## 2.5V REGULATOR



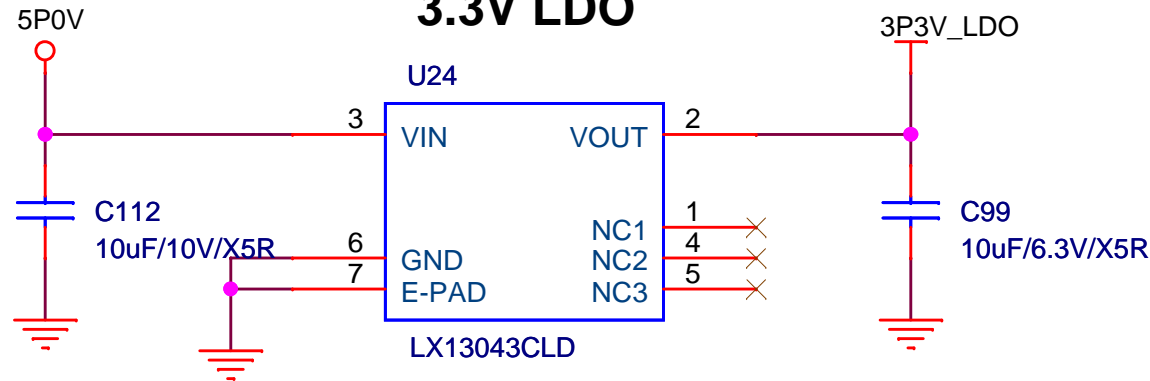
## 3.3V REGULATOR



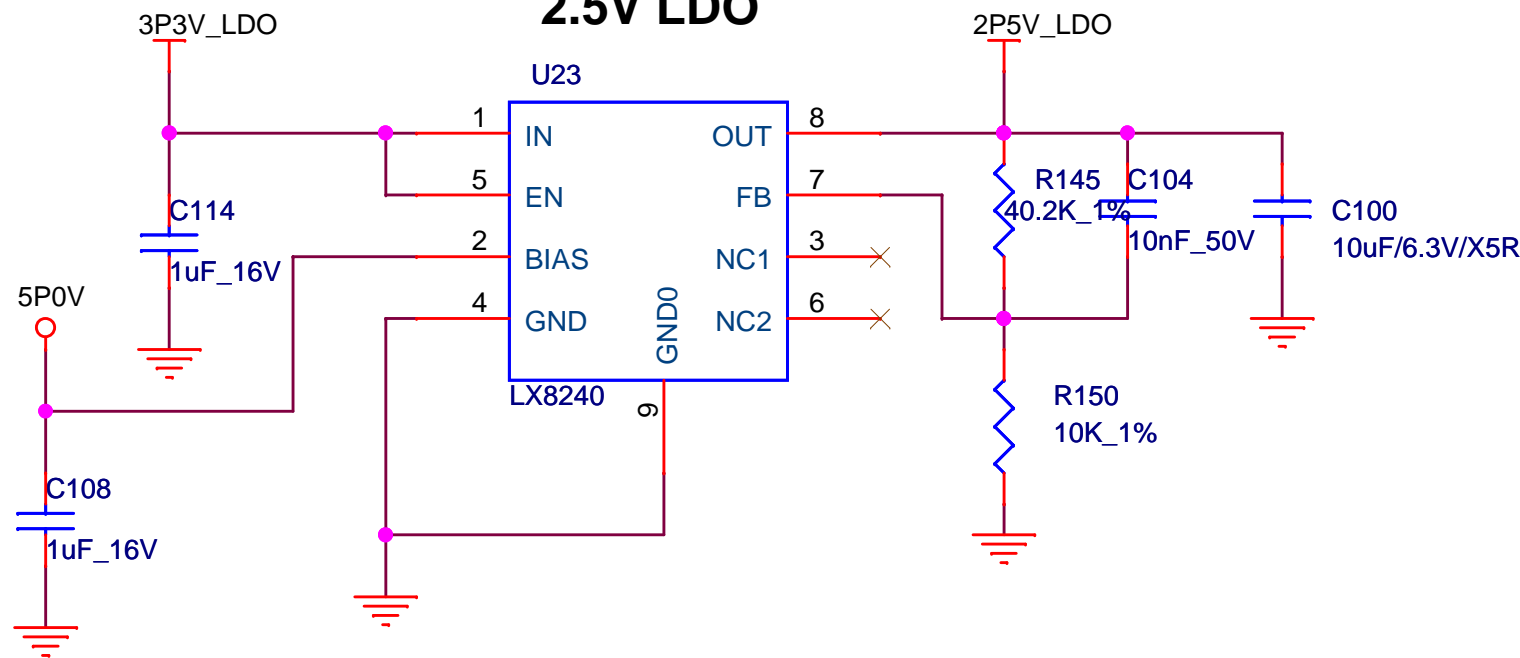
TITLE		
M2GL/M2S-EVAL-KIT		
Microsemi		
SIZE	DOCUMENT NO.	REV
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# POWER SUPPLY 7 & LED

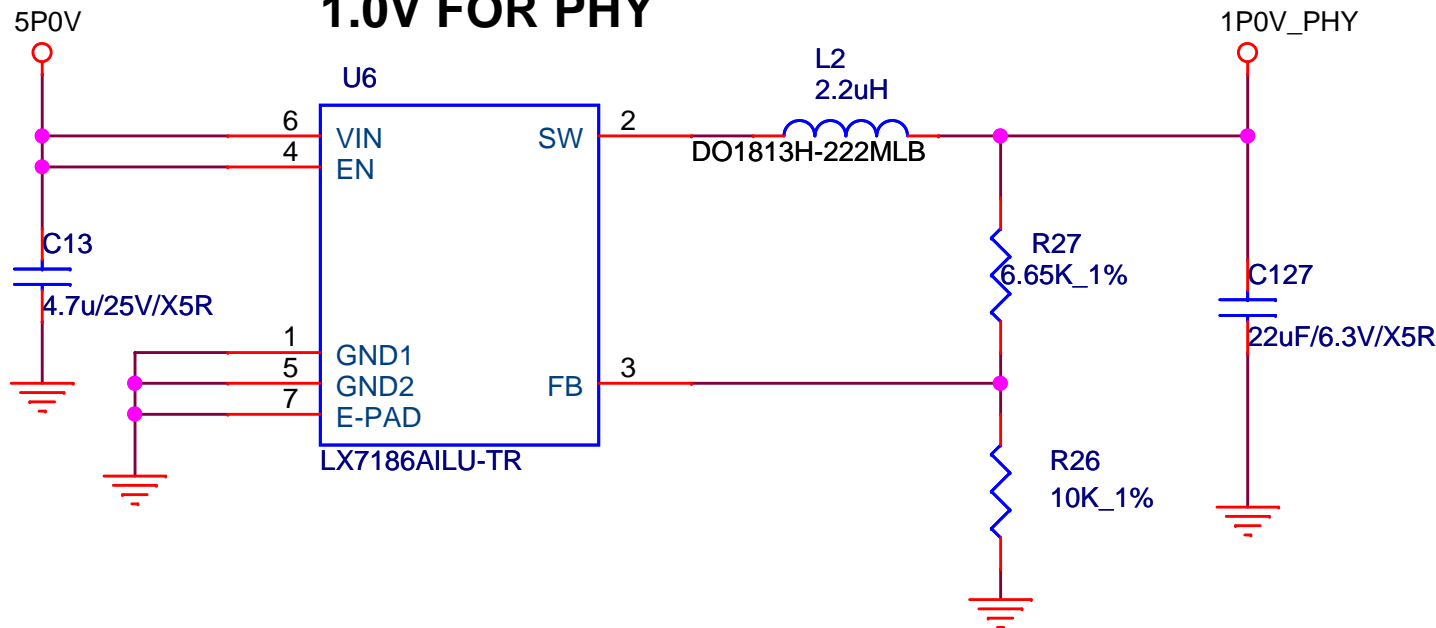
## 3.3V LDO



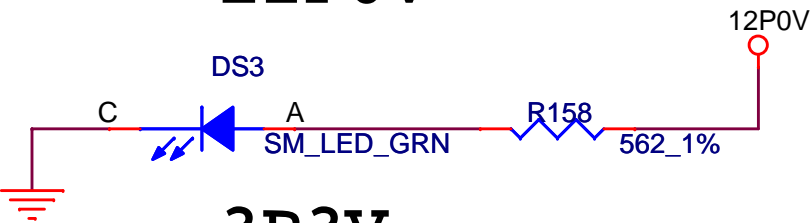
## 2.5V LDO



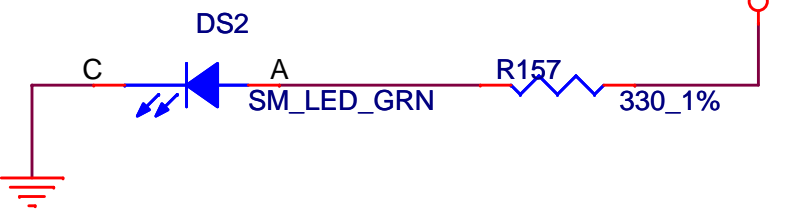
## 1.0V FOR PHY



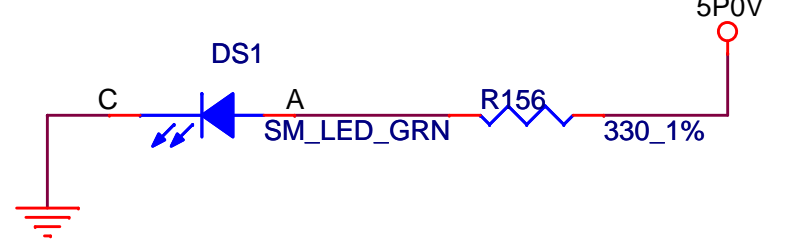
## 12P0V



## 3P3V



## 5P0V



TITLE		
M2GL/M2S-EVAL-KIT		
Microsemi		
SIZE	DOCUMENT NO.	REV
Custom		C
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