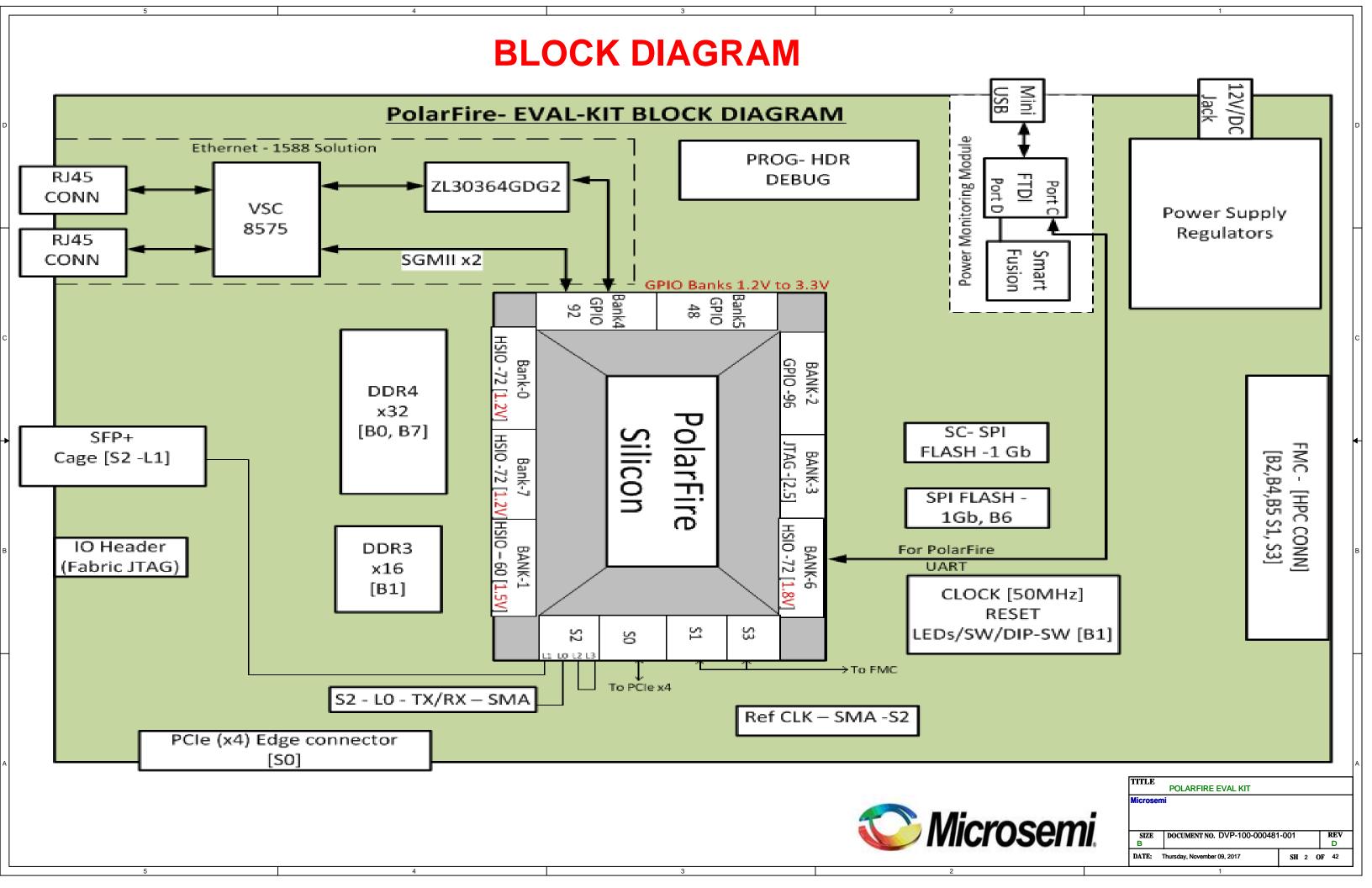
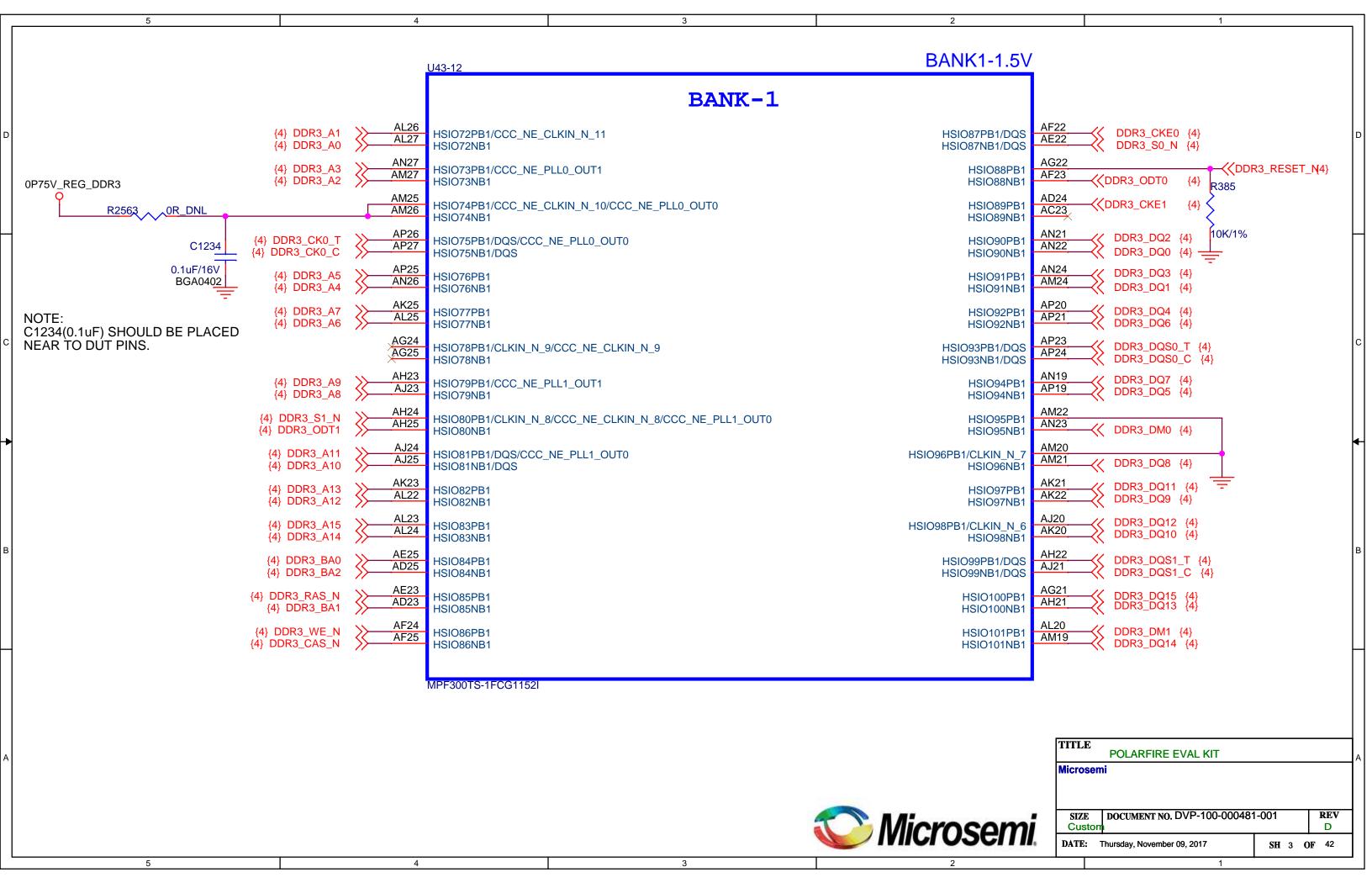
POLARFIRE EVAL KIT

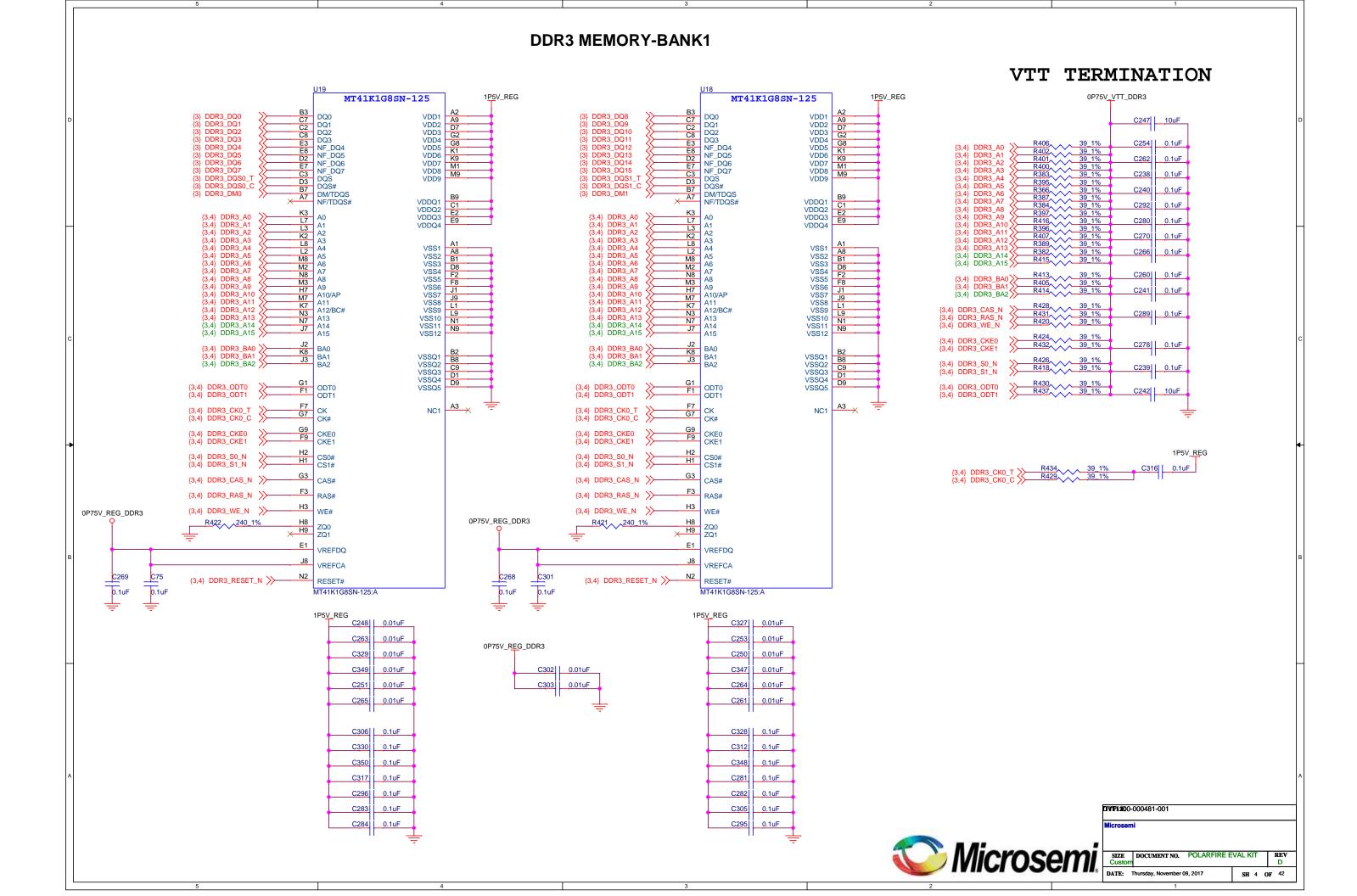
PAGE NO	TITLE	PAGE NO	TITLE
01	TITLE PAGE	22	DEBUG CIRCUITRY
02	BLOCK DIAGRAM	23	LEDs and IO-HEADER CONNECTOR
03	BANK-1 CONNECTIONS	24	VSC8575-MAC INTERFACE
04	DDR3 MEMORY-BANK1	25	VSC8575 CONNECTIONS
05	BANK-0 CONNECTIONS	26	VSC8575-POWER & GROUND
06	BANK-7 CONNECTIONS	27	ZL30364_CLOCK CIRCUIT
07	DDR4 MEMORY-BANK0 &7	28	PROGRAMMING SCHEME BLOCK DIAGRAM
08	BANK-2 CONNECTIONS	29	JTAG CHAIN PROGRAMMING
09	BANK-4 CONNECTIONS	30	FT4232H INTERFACE
10	BANK-5 CONNECTIONS	31	POWER SCHEME
11	BANK-6 CONNECTIONS	32	12V EXTERNAL SUPPLY
12	FMC CONNECTOR(HPC)	33	"POWER SUPPLIES1" - "3.3V" & "5V"
13	TRANSCEIVER BLOCK DIAGRAM	34	"POWER SUPPLY2" - "1V/1.05V"
14	TRANSCEIVER 0 CONNECTION	35	"POWER SUPPLIES3" - "0.75V" & "1.5V"
15	TRANSCEIVER 1 & 3 CONNECTIONS	36	"POWER SUPPLIES4" - "0.6V" & "1.2V"
16	TRANSCEIVER 2 CONNECTION	37	"POWER SUPPLIES5" - "1.05V", "1V" & "1.8V"
17	TRANSCEIVER MISC CONNECTION	38	"POWER SUPPLIES6" - "1.2V","1.5V", "1.8V", "2.5V" & "3.3V"
18	CLOCK SCHEME	39	POWER MONITORING SOLUTION USING A2F
19	POWER CONNECTION	40	F2 DEVICE POWER SUPPLY
20	GROUND & NC CONNECTION	41	A2F-ANALOG/ I2C/RESET/ TEMP MONITOR INTERFACE
21	DECOUPLING CAPACITORS	42	USER DEBUG LOGIC

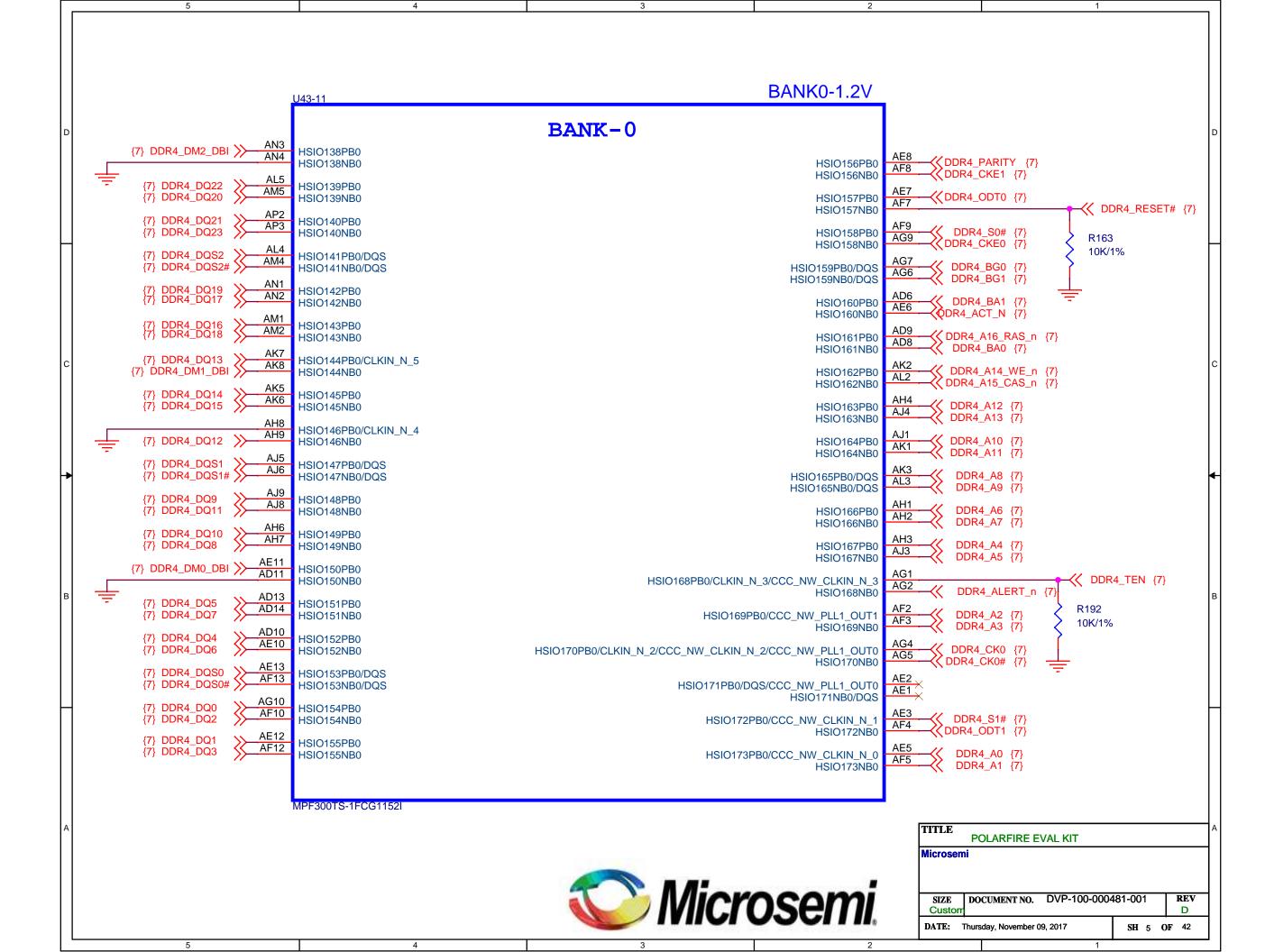


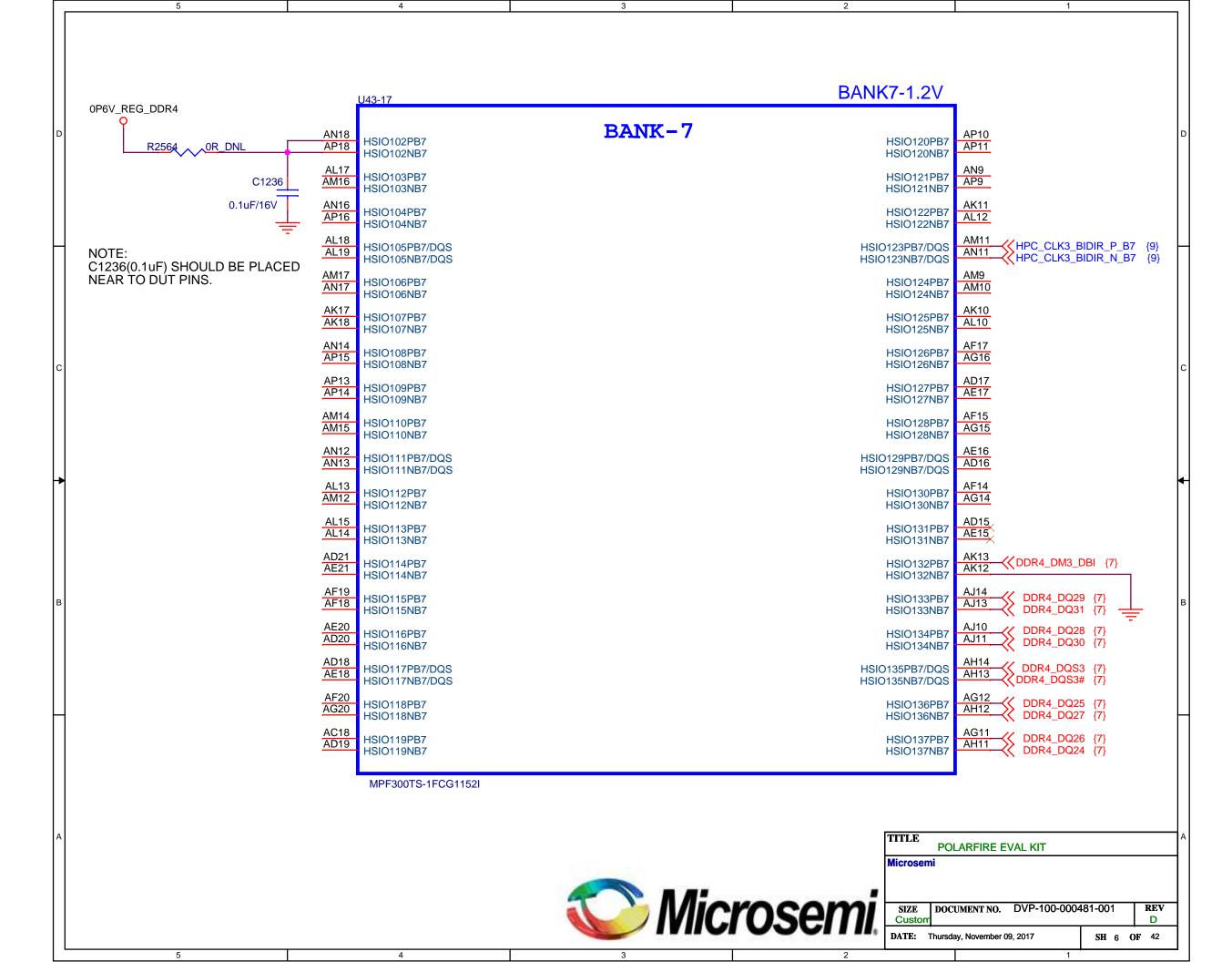
Projec	ct Name:					
	POLARFIRE EVAL KIT					
Rev	Part Number:					
D	MICROSEMI DVP-100-000481-	-001	PACTRO	N: 305	-PD-1	7-02
Origin	ator: GHURU KUMARAVELU		•			
Size	Date:					
В	Thursday, November 09, 2017	Sheet	1	of	42	
	•	- 1				

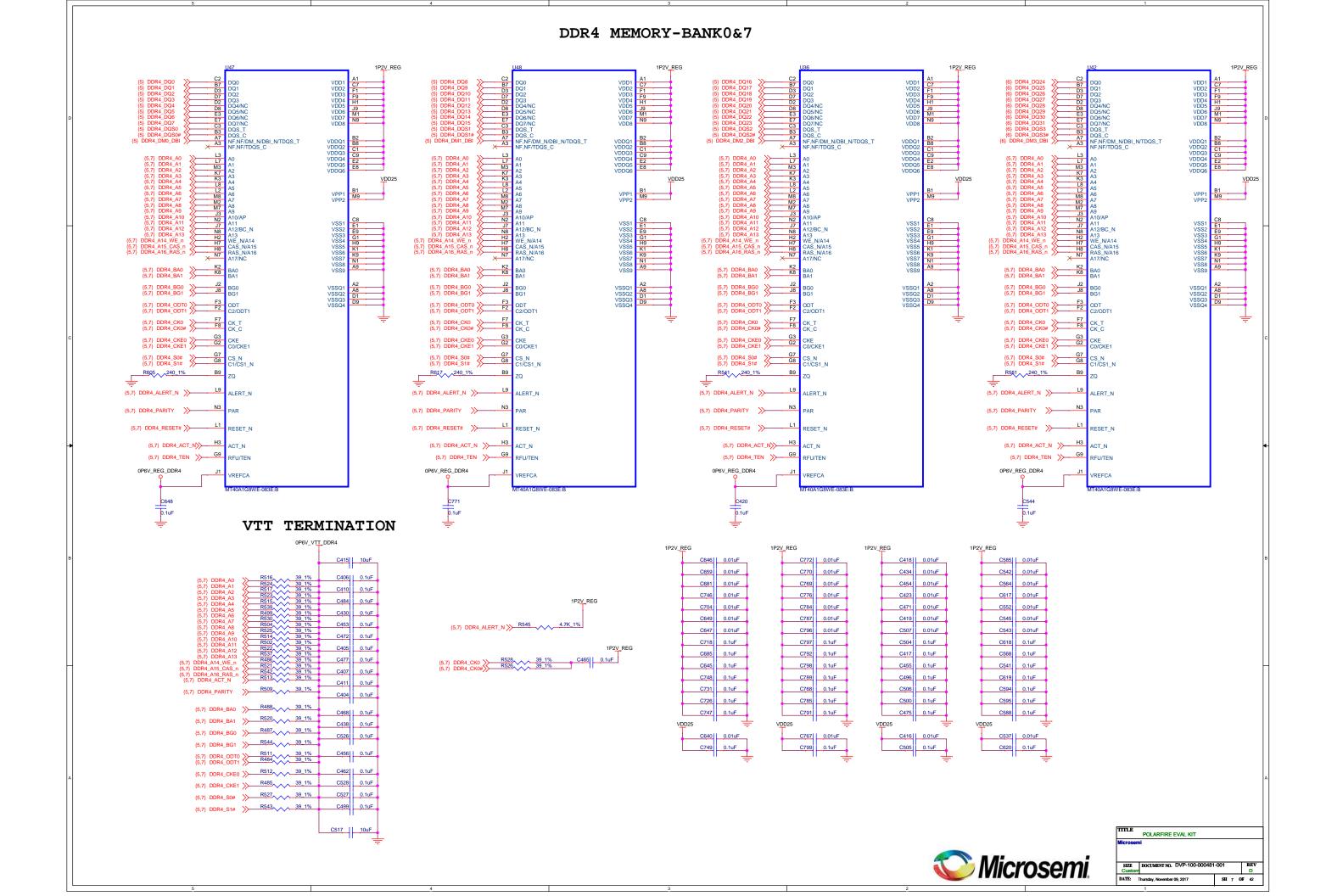


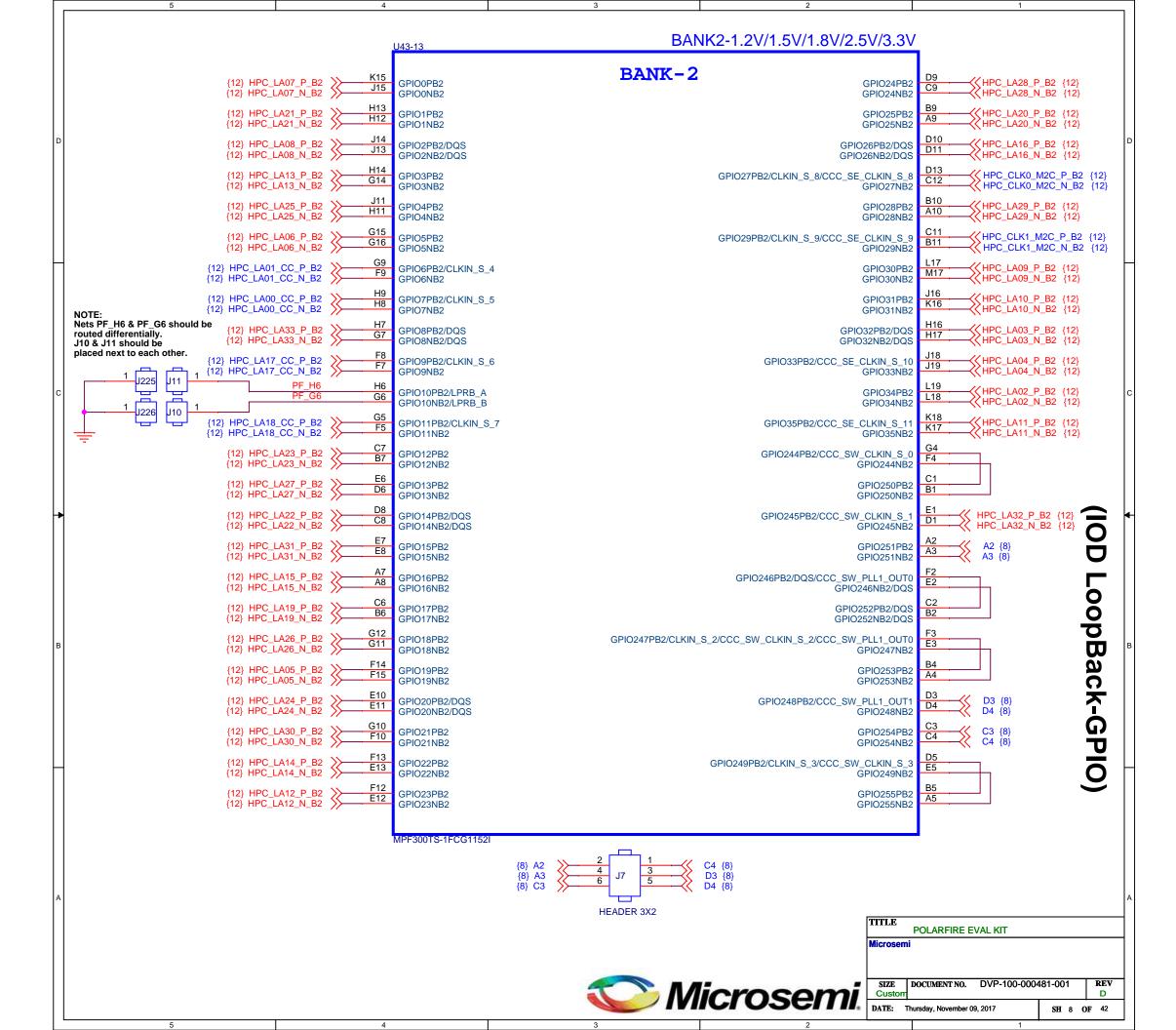


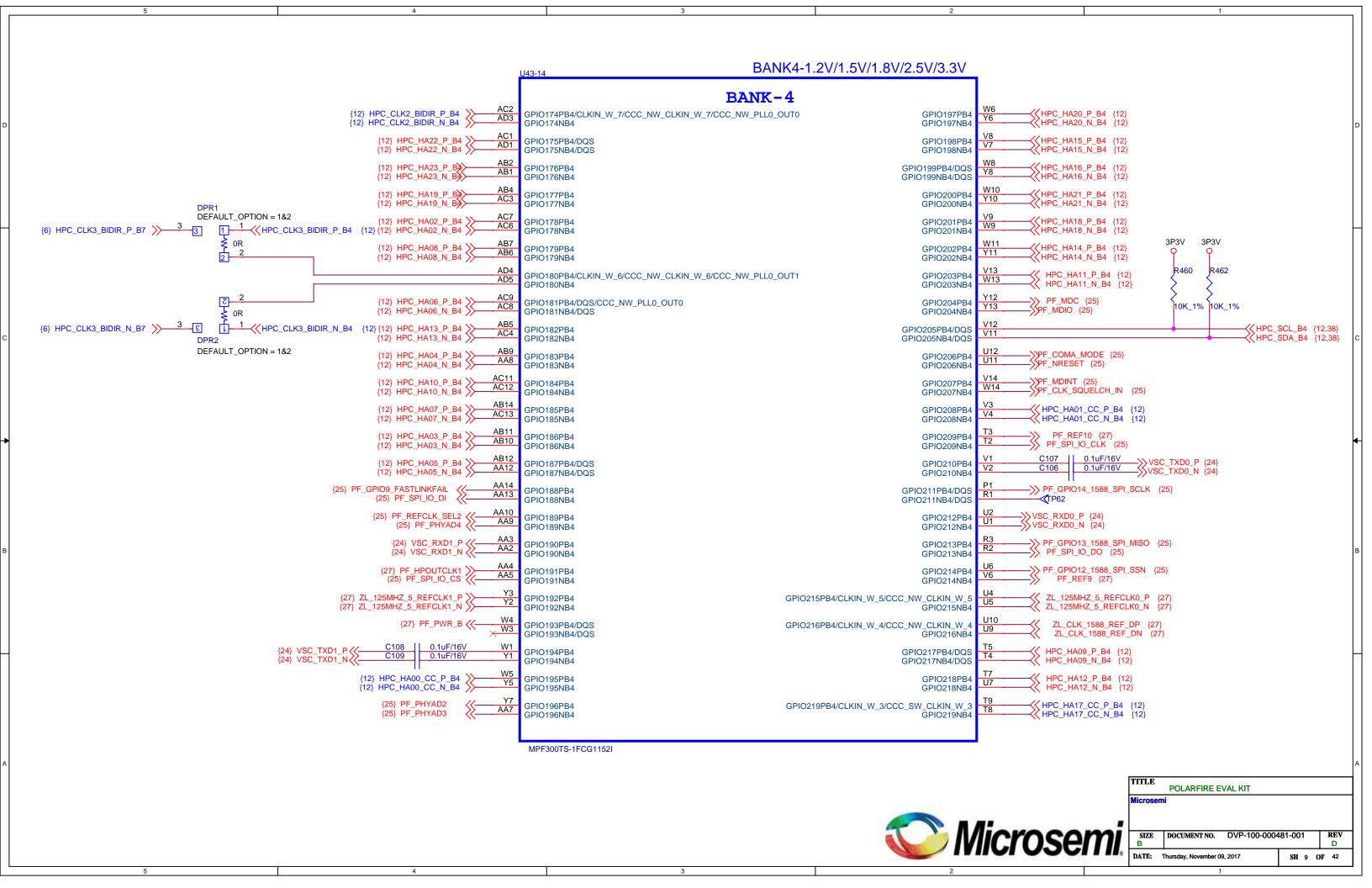


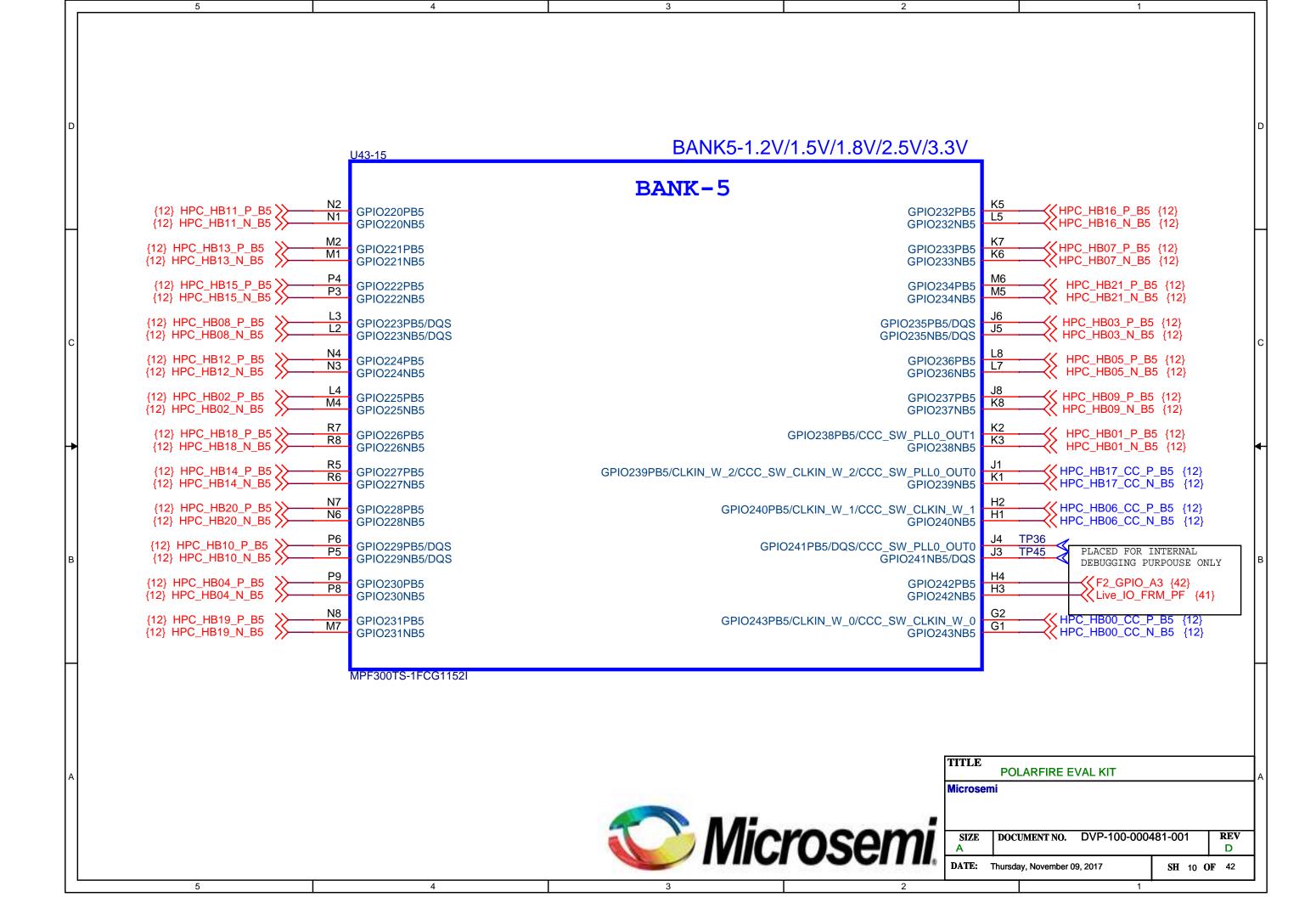


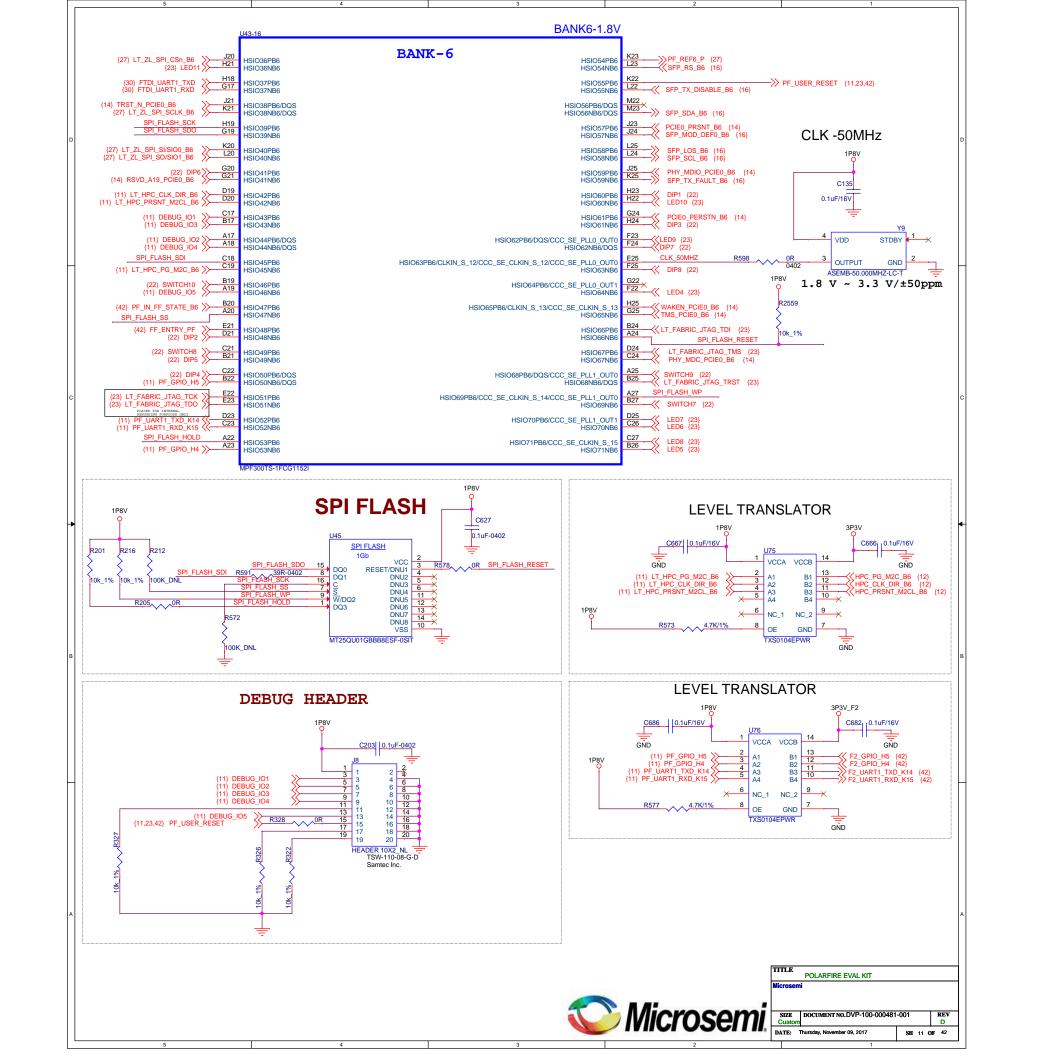


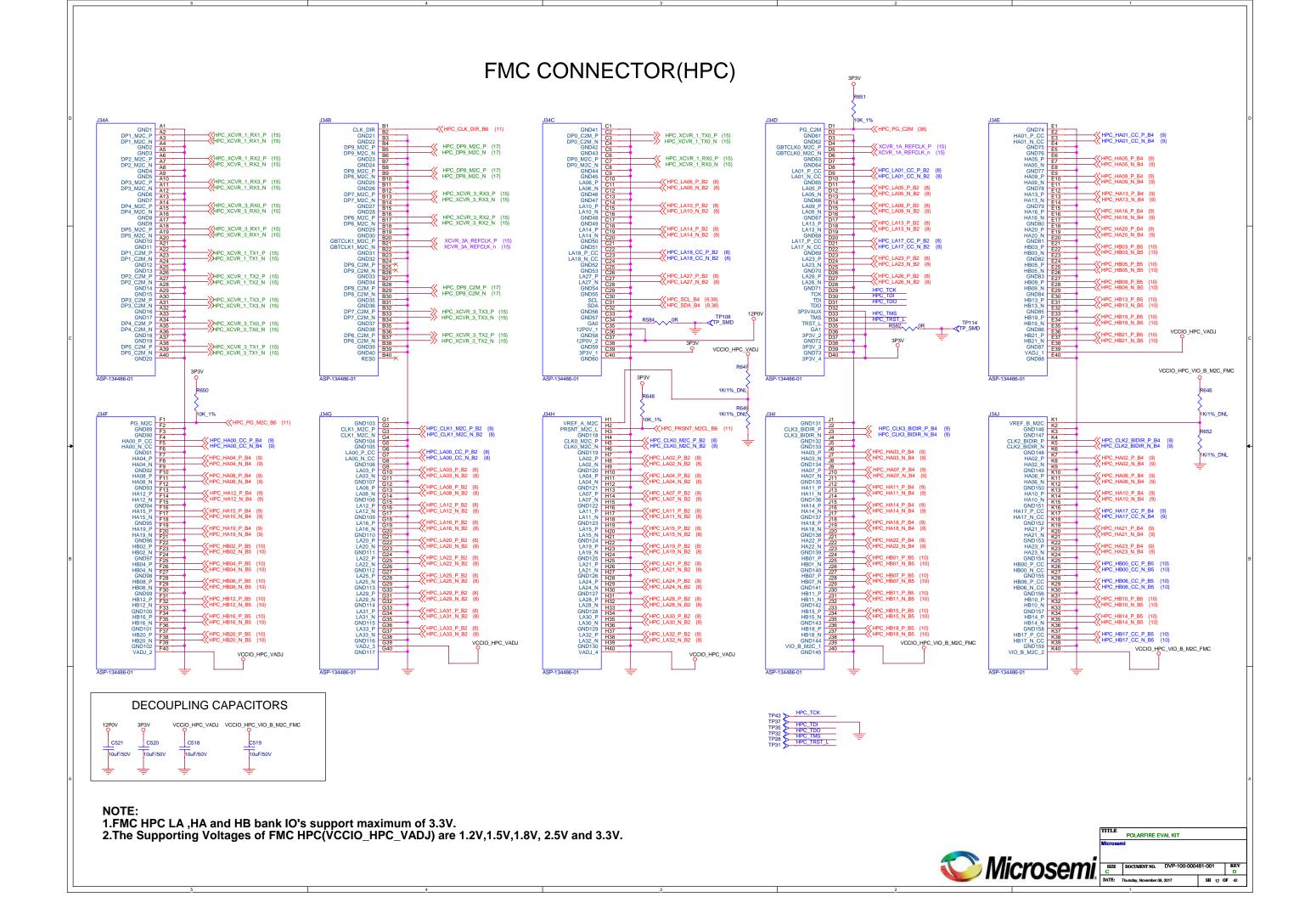


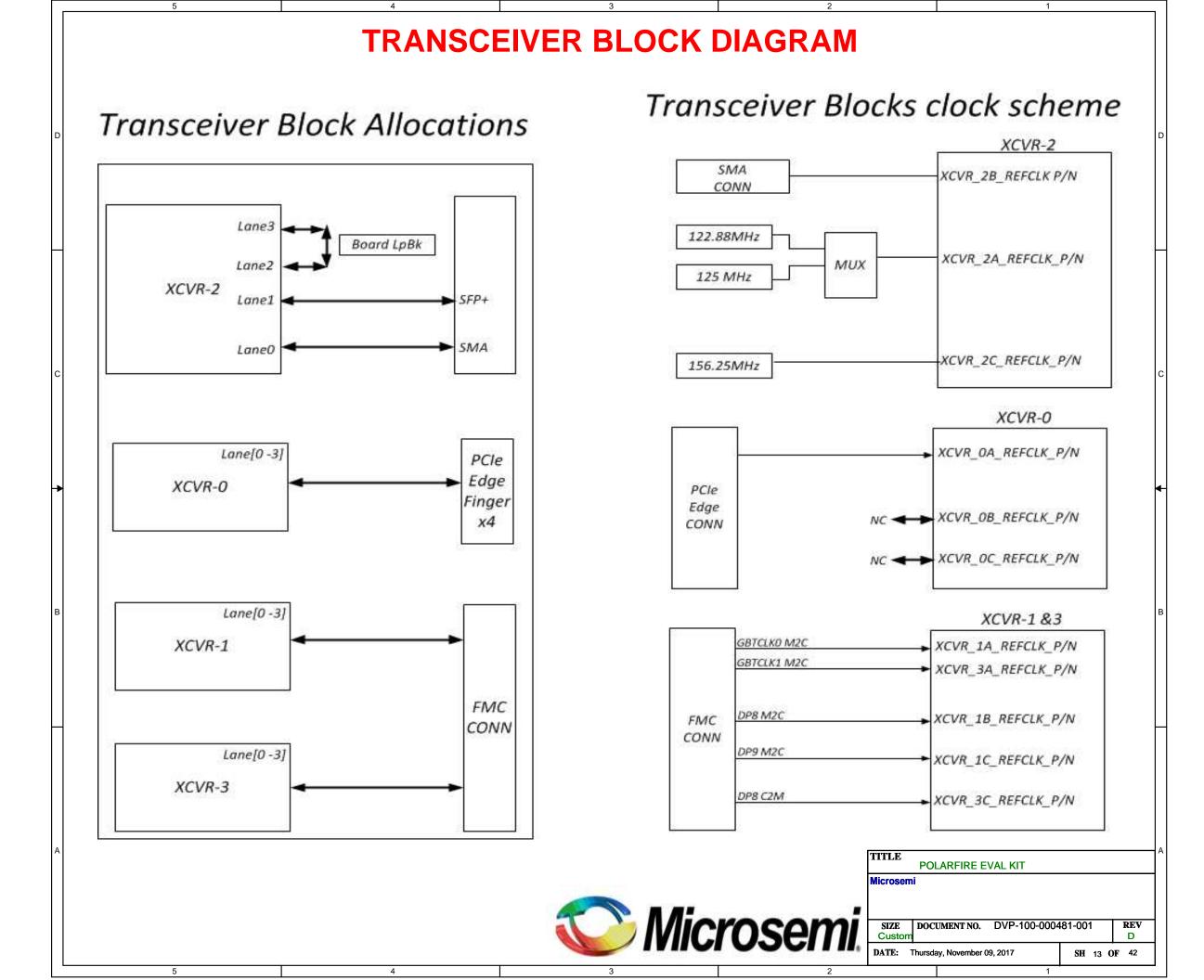


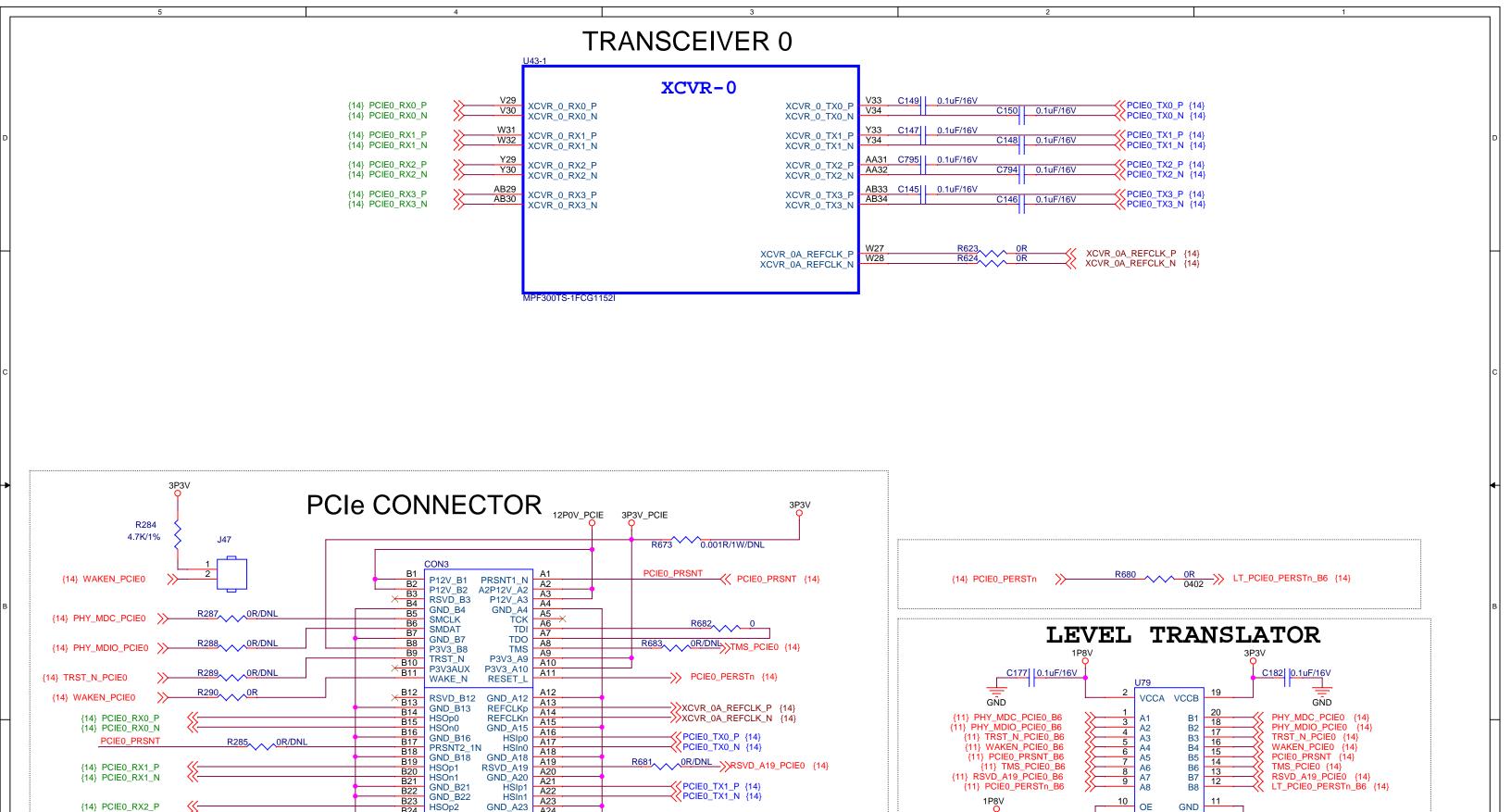












PCIE0_TX2_P {14}

PCIE0_TX2_N {14}

CPCIE0 TX3 P {14}

PCIE0_TX3_N {14}

{14} PCIE0_RX2_N

{14} PCIE0_RX3_P

{14} PCIE0_RX3_N

PCIE0_PRSNT

HSOn2

GND_B25

GND_B26

GND_B29

RSVD_B30

PRSNT2_4N GND_A31 GND_B32 RSVD_A32 PCIEXP_4X_EDGE_FINGER

HSOp3

HSOn3

B25

R286____0

GND_A24

GND_A27

GND A28

HSIp2

HSIn2

HSIp3

HSIn3

A25

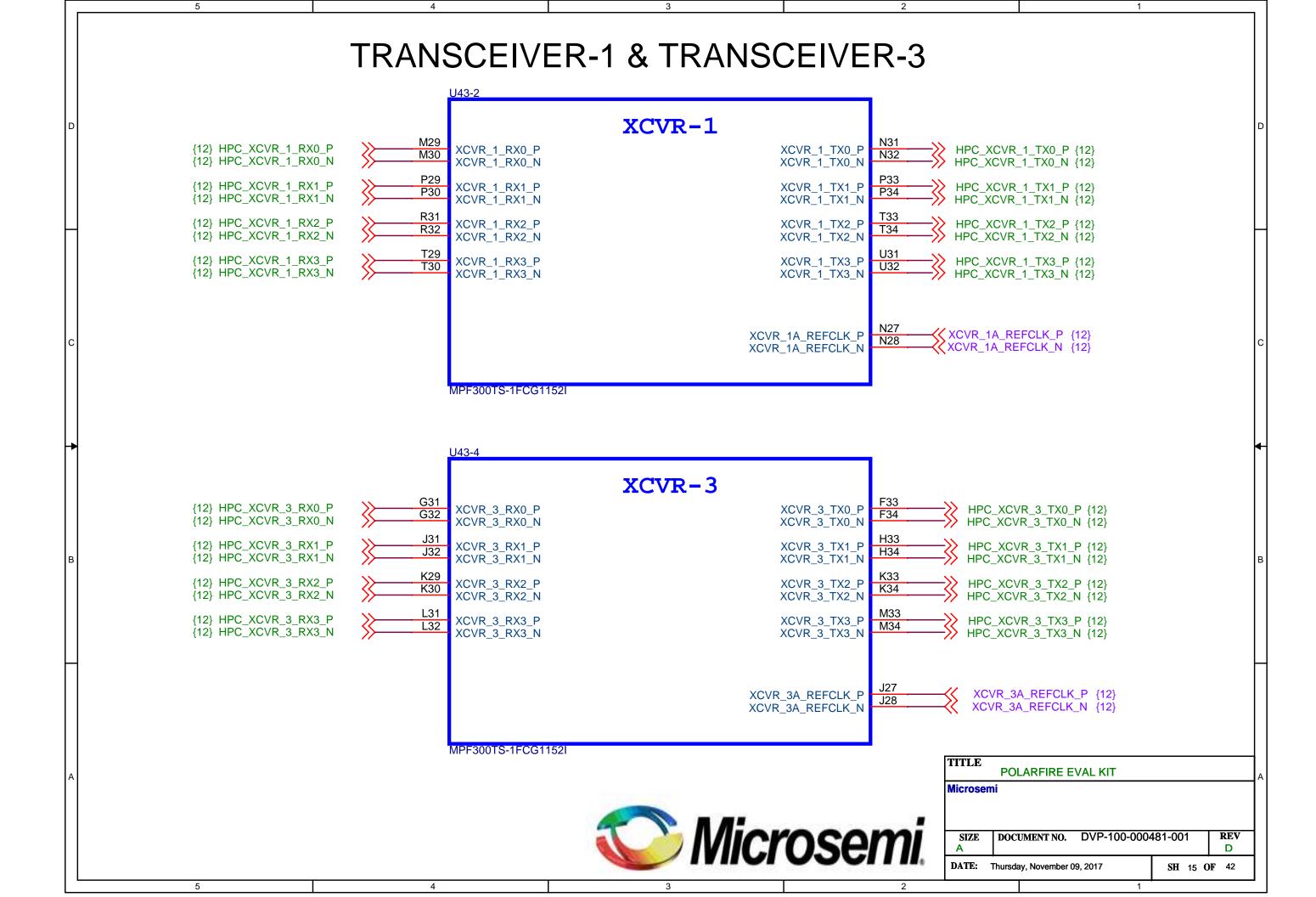


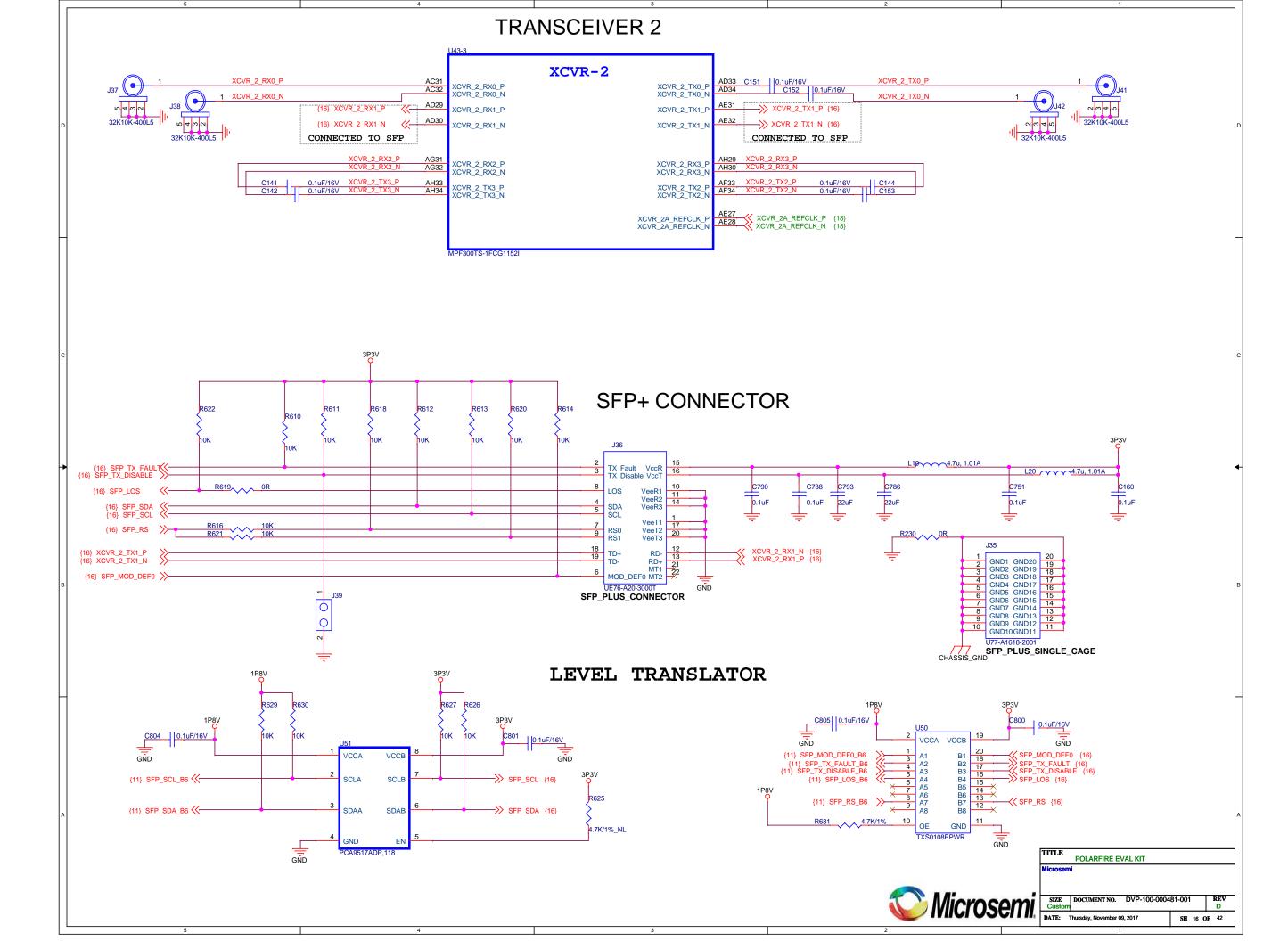
R259 4.7K/1%

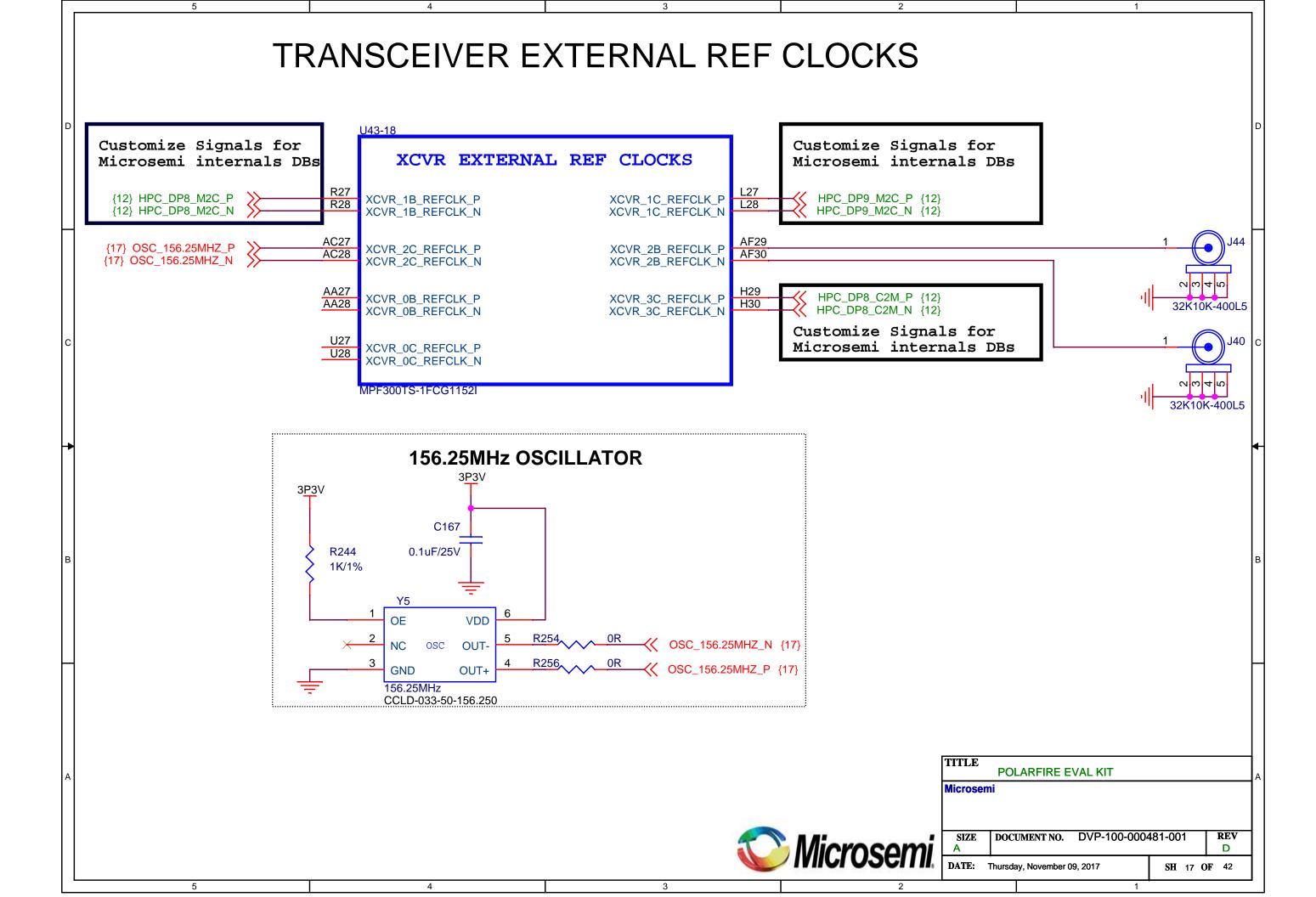
TXS0108EPWR

POLARFIRE EVAL KIT

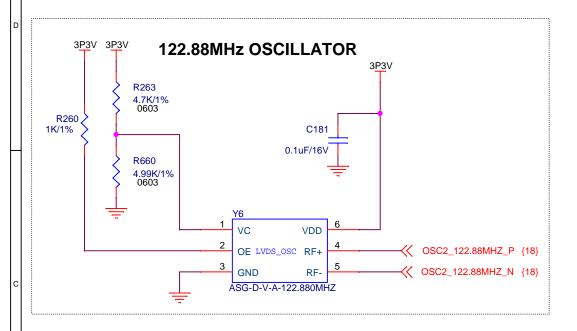
SH 14 OF 42

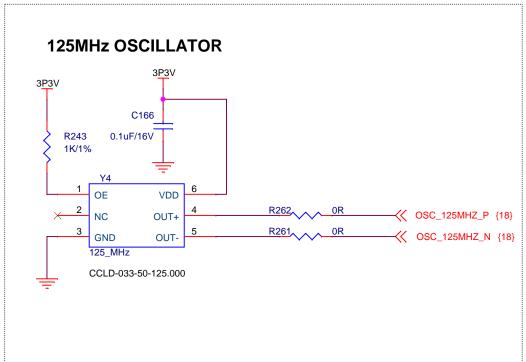




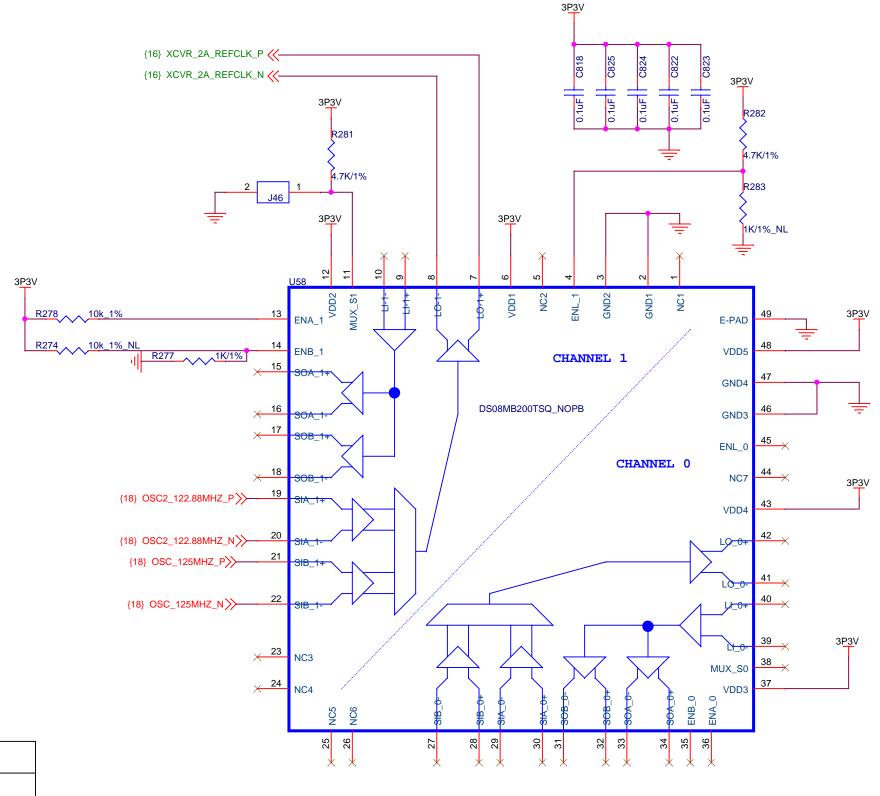


TRANSCEIVER REF CLOCKS



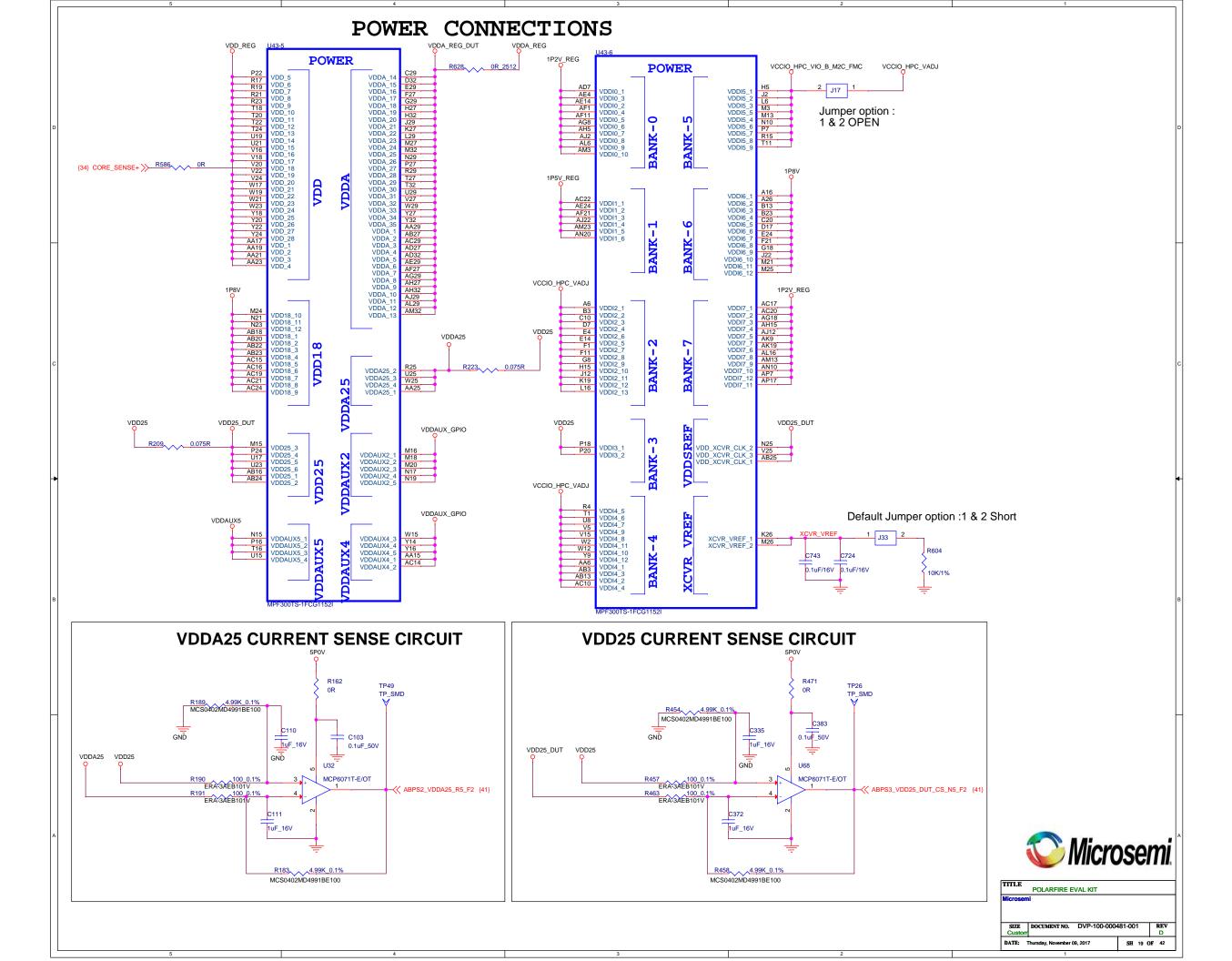


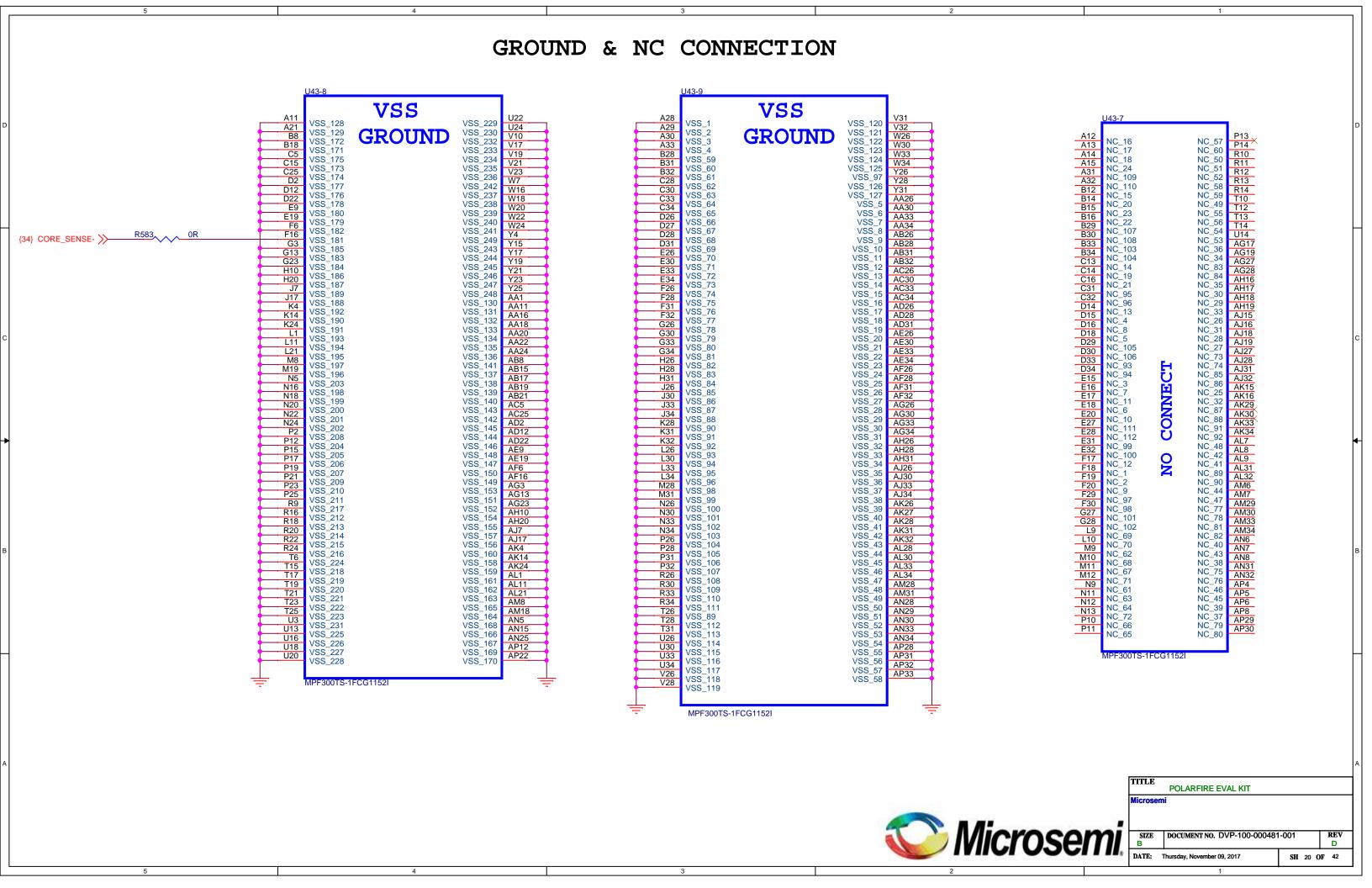
CHANNEL1				
ENL1 MUX S1-J46 XCVR_2A_INT_REFCLK				
L	X	х		
Н	L	Osc-125MHz		
н	Н	Osc2-122.88MHz		

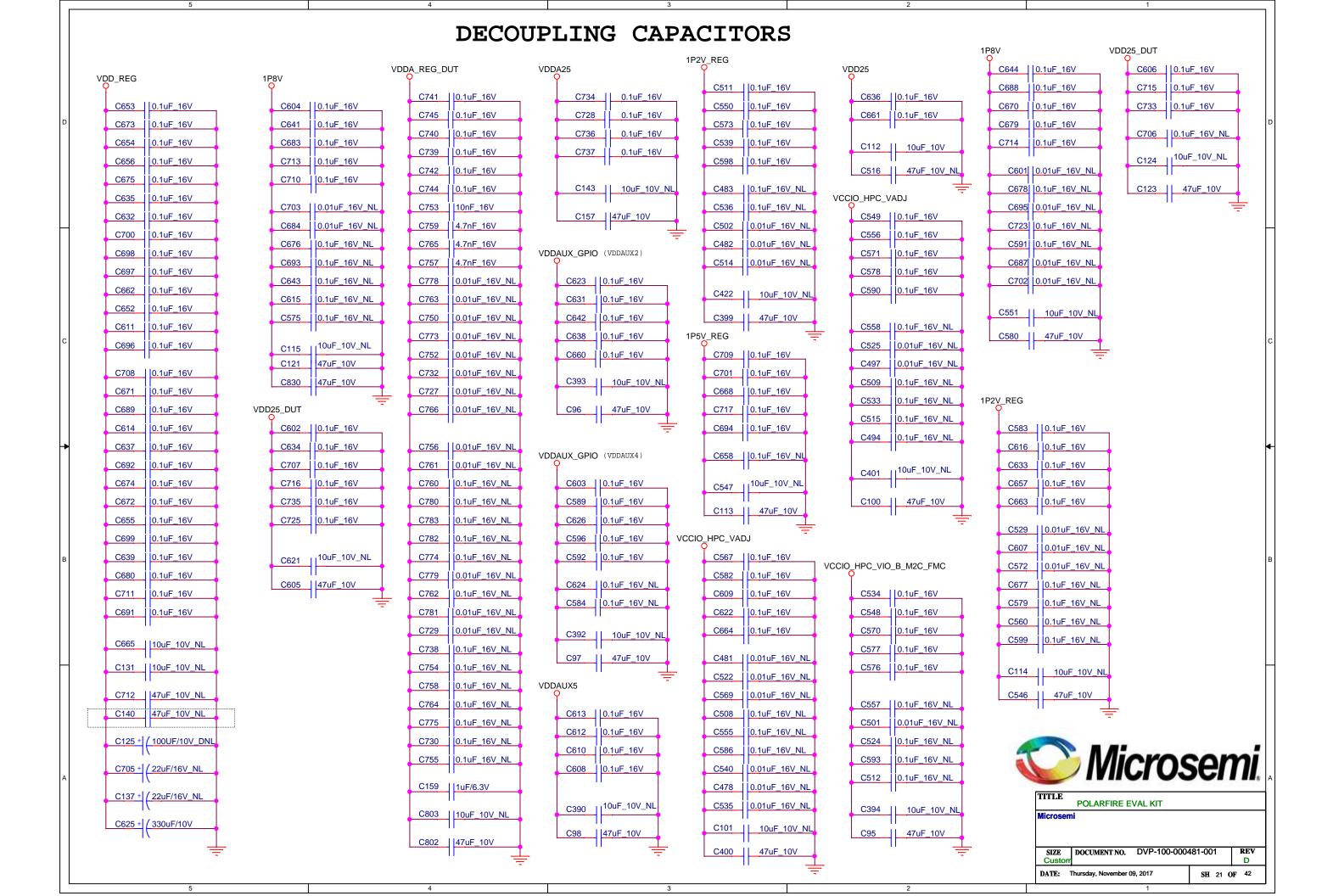




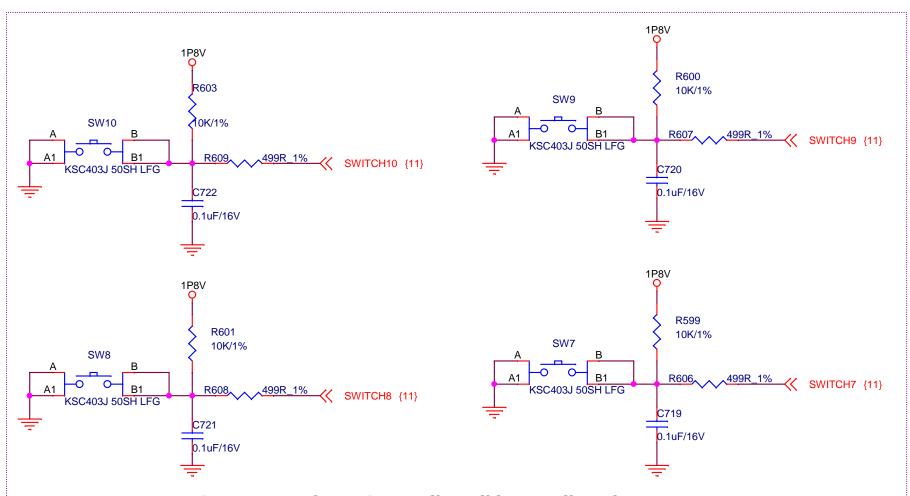
TITLE POLARFIRE EVAL KIT					
Microsemi					
SIZE Custom	DOCUMENT NO. DVP-100-0004	481-001	REV D		
DATE: Thursday, November 09, 2017 SH 18			F 42		





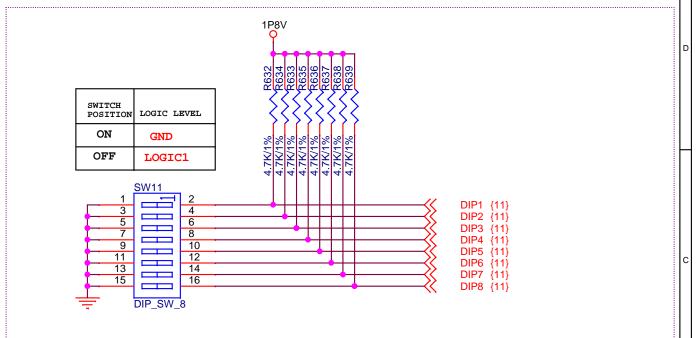






PUSH BUTTON SWITCH CONNECTION TABLE

NET NAME	FPGA PIN NO	FPGA PIN NAME	BANK
SWITCH10	в19	HSIO46PB6	BANK-6
SWITCH8	C21	HSIO49PB6	BANK-6
SWITCH9	A25	HSIO68PB6/DQS/CCC_SE_PLL1_OUT0	BANK-6
SWITCH7	B27	HSIO69NB6	BANK-6



DIP SWITCH CONNECTION TABLE

NET NAME	FPGA PIN NO	FPGA PIN NAME	BANK
DIP1	н23	HSIO60PB6	BANK-6
DIP2	D21	HSIO48NB6	BANK-6
DIP3	н24	HSIO61NB6	BANK-6
DIP4	C22	HSIO50PB6/DQS	BANK-6
DIP5	B21	HSIO49NB6	BANK-6
DIP6	G20	HSIO41PB6	BANK-6
DIP7	F24	HSIO62NB6/DQS	BANK-6
DIP8	F25	HSIO63NB6	BANK-6



TITLE POLARFIRE EVAL KIT					
	Microsem	i			
ı	SIZE Custom	DOCUMENT NO.	DVP-100-0004	181-001	REV D
	DATE: Thursday, November 09, 2017 SH 22 ()F 42	

5

