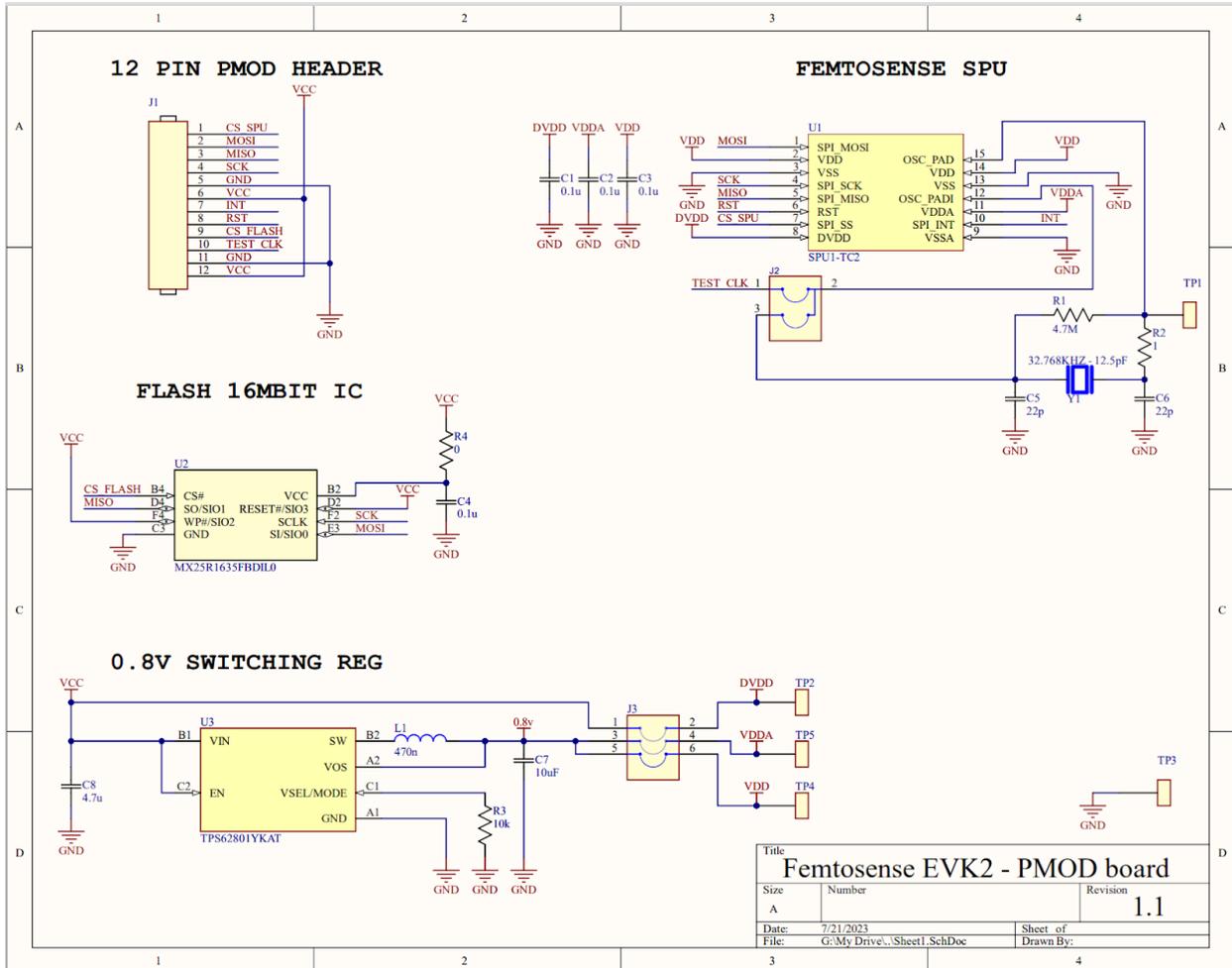


Application Note 002

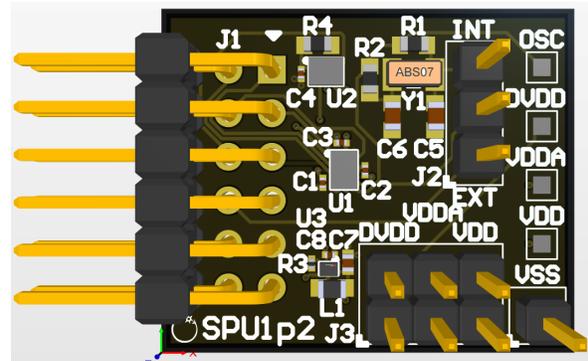
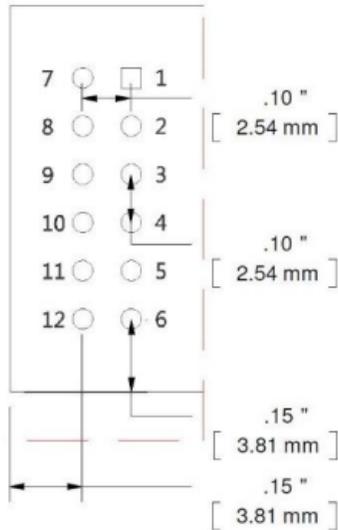
EVK2 PCB Pinout

The SPU-001 EVK2 PCB can be used with any host with an SPI interface and 1.8-3.3V logic. The schematic for the board is given below:



Application Note 002

The pinout of the main header J1 is pin-compatible with the Digilent PMOD interface type 2A specification:



Pin	Description	Note
1	SPI Chip Select for SPU-001	active low
2	SPI MOSI signal	
3	SPI MISO signal	
4	SPI SCK clock signal	
5	Ground	
6	VCC	1.8V-3.3V
7	SPU Interrupt signal	logic high when data frame is ready
8	SPU Reset signal	active high
9	SPI Chip Select for onboard flash chip	PN: Macronix MX25R1635FBDIL0
10	Reference Clock for SPU	
11	Ground	
12	VCC	1.8V-3.3V

Note: All IO should be conducted at VCC level.

Application Note 002

Jumpers

The following jumpers should be configured as follows:

Pin	Description	Configuration
DVDD	IO power rail, VCC	connect jumper vertically
VDDA	PLL power rail, 0.8v	connect jumper vertically
VDD	Main power rail, 0.8v	connect jumper vertically
J2	Reference Clock selector	Upper position: onboard oscillator Lower position: reference clock from J1 pin 10

Change Log

Version	Release Date	Description
1.0	2023-05-04	Initial release
1.1	2023-07-23	Updated schematic with typo