

ATBM6441 Module Circuit Diagram

1. Filter and matching circuit

Fig 1 shows the 4.8GHz suppression circuit and chip RF matching circuit for 2.4 ~ 2.5GHz.

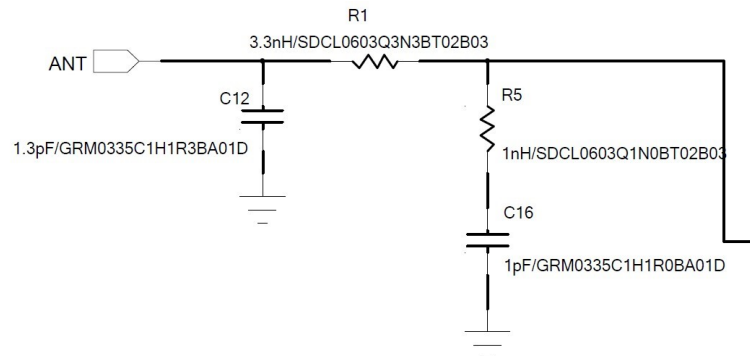


Fig 1. Filter and matching circuit

2. De-coupling capacitors for power supply

Fig 2 shows the ATBM6441 chip and de-coupling capacitors for each power supply pin.

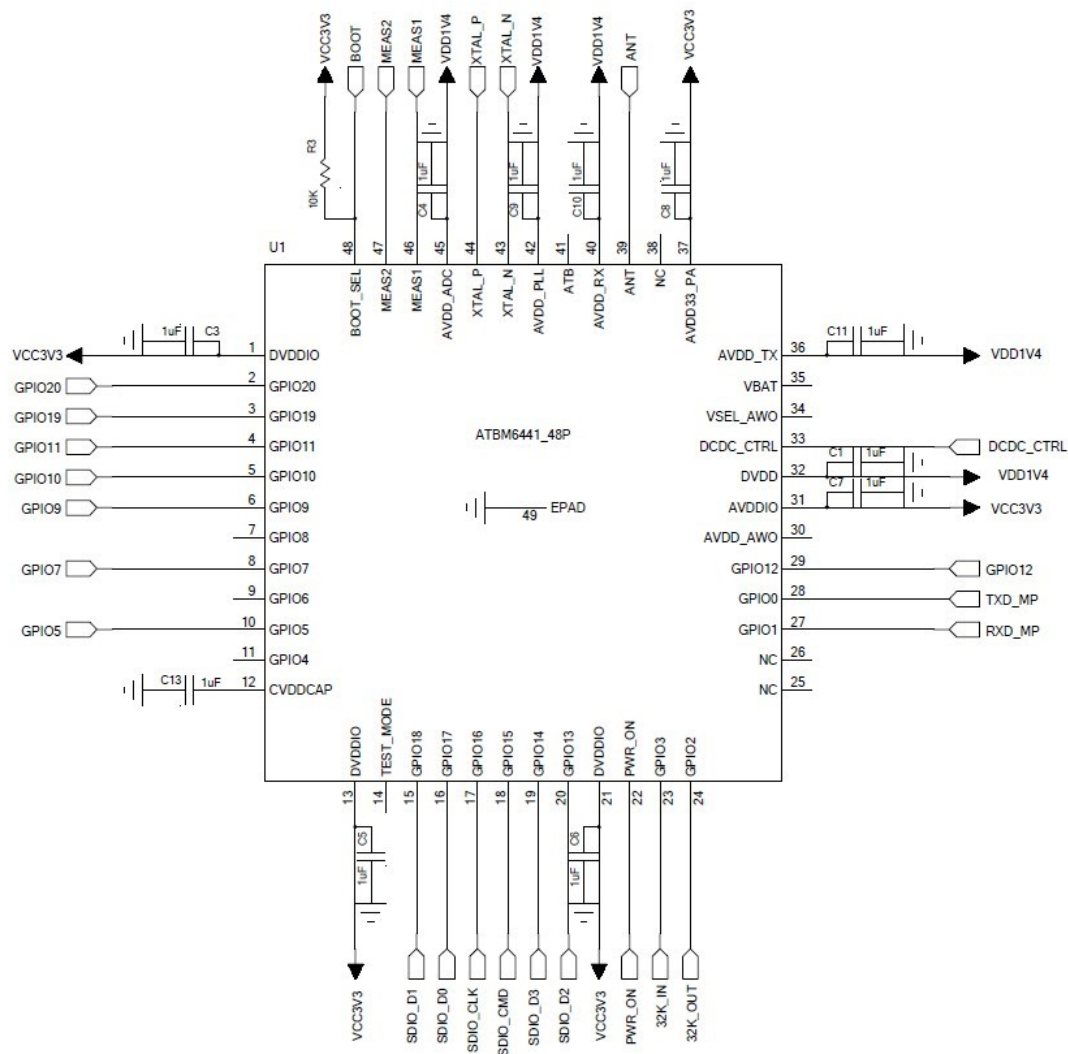


Fig 2. De-coupling capacitors for power supply pins

3. Crystal

Fig 3 and Fig 4 show 24MHz and 32.768KHz crystal circuits for ATBM6441 Wi-Fi chip.

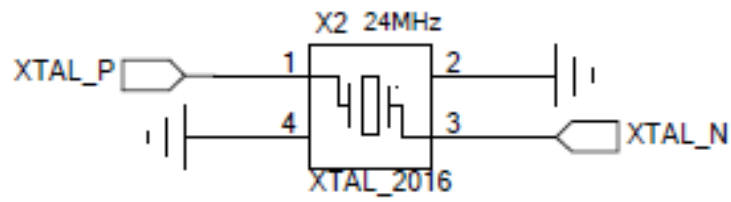


Fig 3. 24MHz crystal circuit

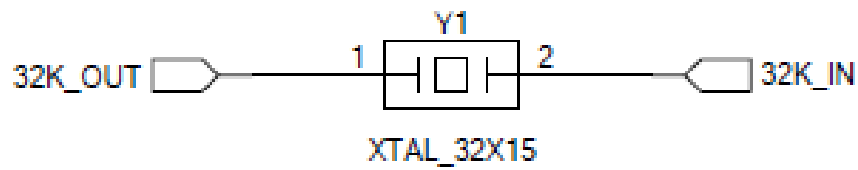


Fig 4. 32.768KHz crystal circuit

4. 3.3V to 1.4V DC/DC circuit

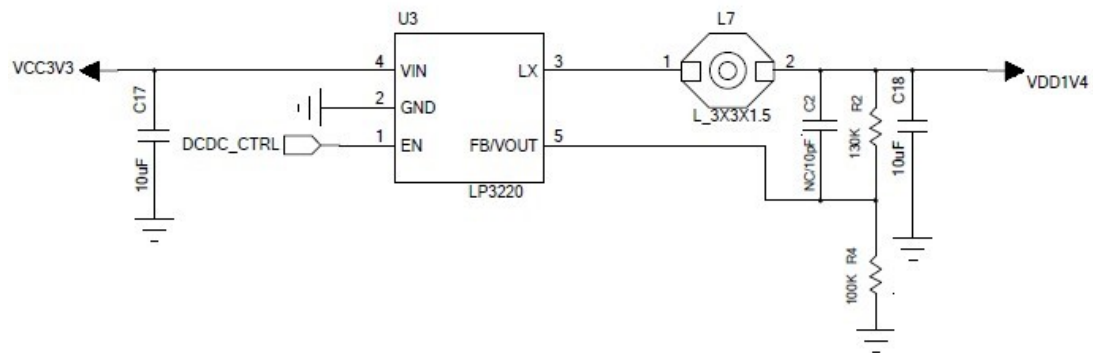


Fig 5. 3.3V to 1.4V DC/DC circuit

5. ATBM6441 module pins

Fig 6 shows ATBM6441 module pins.

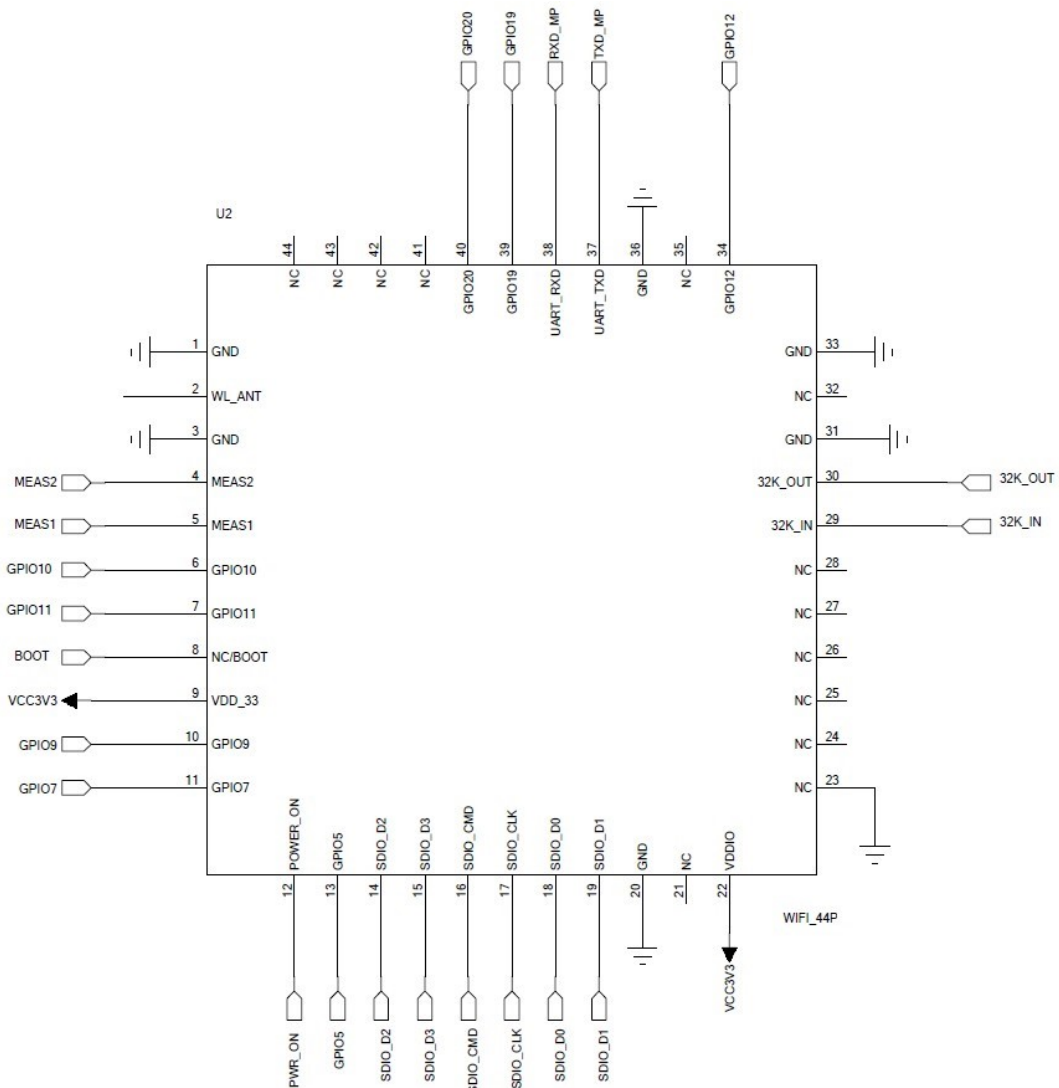


Fig 6. ATBM6441 module pins

RF Specification:

Operation Frequency:	802.11b/g/n (HT20): 2412MHz to 2462MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n (HT20): 11
Channel Spacing:	5MHz
Antenna:	No antenna (Refer to Note)
Antenna Type:	N/A (Refer to Note)
Antenna Gain:	N/A (Refer to Note)
Note: The antenna provided to the EUT, Dipole Antenna with 3dBi gain.	