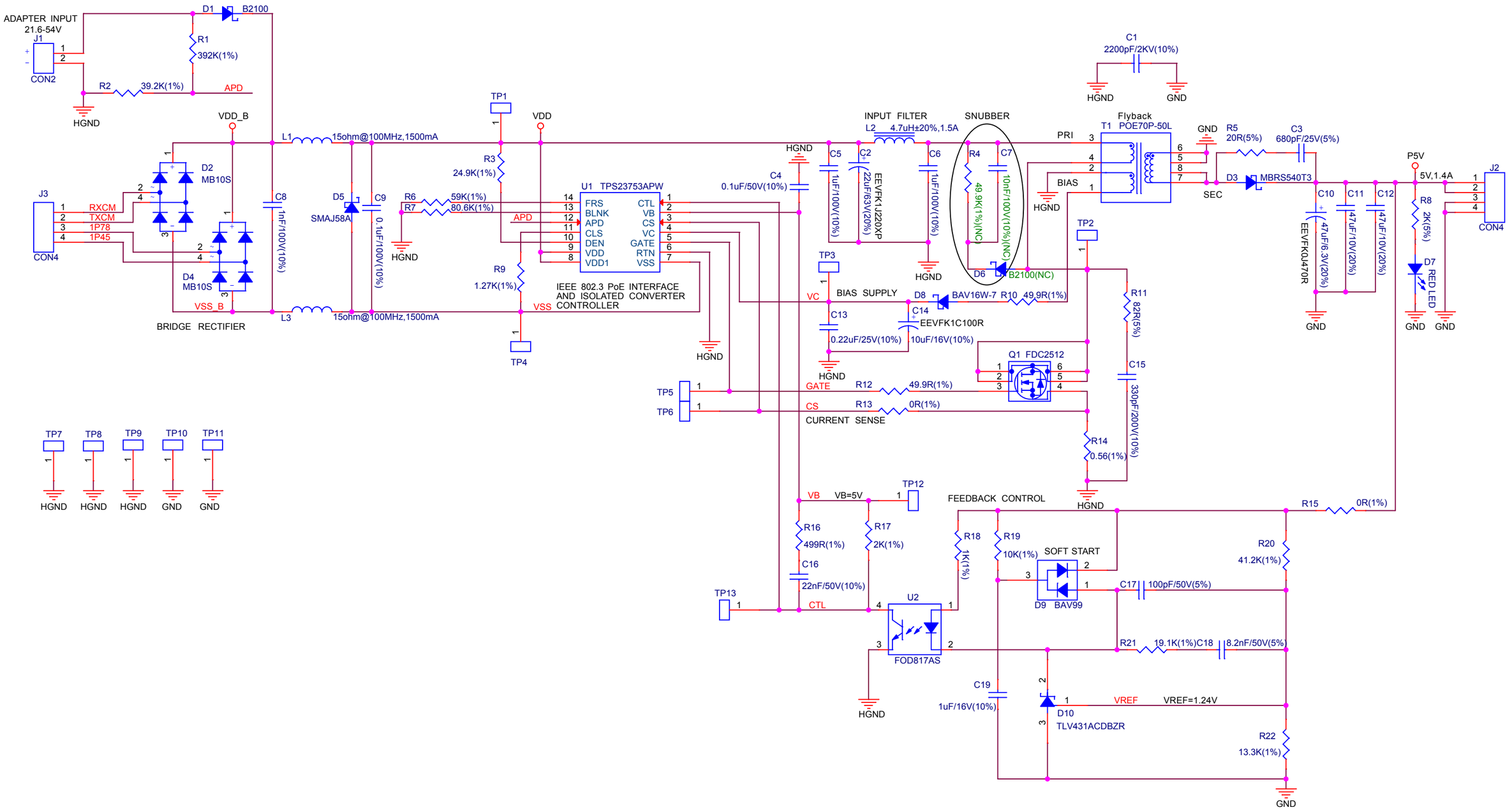
ADAPTER INPUT
21.6-54V
J1
CON2
D1
B2100
R1
392K(1%)
R2
39.2K(1%)
APD
HGND
VDD_B
D2
MB10S
D4
MB10S
J3
RXCM
TXCM
1P78
1P45
CON4
VSS_B
BRIDGE RECTIFIER
L1
15ohm@100MHz,1500mA
L3
15ohm@100MHz,1500mA
C8
1nF/100V(10%)
D5
SMAJ58A
C9
0.1uF/100V(10%)
TP1
VDD
R3
24.9K(1%)
R6
59K(1%)
R7
80.6K(1%)
R9
1.27K(1%)
TP4
U1 TPS23753APW
FRS
BLNK
APD
CLS
DEN
VDD
VDD1
CTL
VB
CS
VC
GATE
RTN
VSS
IEEE 802.3 PoE INTERFACE
AND ISOLATED CONVERTER
CONTROLLER
C4
0.1uF/50V(10%)
INPUT FILTER
L2 4.7uH±20%,1.5A
C5
1uF/100V(10%)
C2
EEVFK1J220XP
22uF/63V(20%)
C6
1uF/100V(10%)
SNUBBER
R4
49.9K(1%)(NC)
C7
10nF/100V(10%)(NC)
D6
B2100(NC)
C1
2200pF/2KV(10%)
Flyback
T1 POE70P-50L
PRI
BIAS
SEC
R5
20R(5%)
C3
680pF/25V(5%)
D3
MBRS540T3
C10
EEVFK0J470R
47uF/6.3V(20%)
C11
47uF/10V(20%)
C12
47uF/10V(20%)
P5V
5V,1.4A
J2
CON4
R8
2K(5%)
D7
RED LED
TP2
TP3
VC
BIAS SUPPLY
D8
BAV16W-7
R10
49.9R(1%)
C13
0.22uF/25V(10%)
C14
EEVFK1C100R
10uF/16V(10%)
R11
82R(5%)
Q1 FDC2512
C15
330pF/200V(10%)
TP5
TP6
GATE
R12
49.9R(1%)
CS
R13
0R(1%)
CURRENT SENSE
R14
0.56(1%)
TP7
TP8
TP9
TP10
TP11
GND
TP12
VB
VB=5V
R16
499R(1%)
C16
22nF/50V(10%)
R17
2K(1%)
FEEDBACK CONTROL
R18
1K(1%)
R19
10K(1%)
SOFT START
D9 BAV99
R15
0R(1%)
R20
41.2K(1%)
C17
100pF/50V(5%)
TP13
CTL
U2
FOD817AS
R21
19.1K(1%)
C18
8.2nF/50V(5%)
C19
1uF/16V(10%)
VREF
VREF=1.24V
D10
TLV431ACDBZR
R22
13.3K(1%)