PFC-In

PfcIn+ 1

12V0 2

3V3 3

PWM-1 4

PWM-2 5

PfcIn- 6

Cd5 22u 16V 1210

Cd2 10u 1206

ZD2 SMAZ5

12V0

Cd1 2u2

ZD1 SMAZ16

R3 10R
R1 10K

R4 10R
R2 10K

U1 UCC27524DR
Vdd 6
4 5
2 7
NC 1 NC 8
Gnd 3

D1 GI756

PFC-Out

L1 150uH

D2 MBR0530
R5 10R

HS1 637-10ABP
G1
R7 10k

Q1 IPP60R250 TO220
G D S

D4 CSD10060

C4 47n 450V
C5 100u 450V
C6 100u 450V
C16 100u 450V
PR1 NL

R13 1M
R14 1M
R15 13k
C9 0.01uF

PfcOut 9
Vfb 8

L2 150uH

D3 MBR0530
R9 10R

HS2 637-10ABP
G2
R11 10k

Q2 IPP60R250 TO220
G D S

D5 CSD10060

3V3
Cd3 330n

C2 100p
R10 20K

U2 OPA365
Vdd 5
4 -
3 +
Gnd

G3 G4

R12 2K
R16 2K
R17 20K
C3 100p

R18 50mOhm
R6 50mOhm
R8 50mOhm

R19 100 ohm
Ifb 7

GND 10

All Res near op-amp 1%

(Kelvin GND at R18, R6, R8) PGND 11

PfcIn- 6

M
1 PfcIn+   PfcOut 9
2 12V0
3 3V3   Vfb 8
4 PWM-1   Ifb 7
5 PWM-2   PGND 11
6 PfcIn-   GND 10
PFC2PhIL-1Shunt

Use IPP60R250CPIN-ND
CoolMos 250 mOhm RdsOn

Heatsink (HS1, HS2) DK#s
1" high - 345-1028
1.5" high - 345-1029
2.0" high - 345-1030

Texas Instruments

PFC_2Ph_IL_700W (Macro)

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