

S6BP501A00VA1001 3-CH AUTOMOTIVE CLUSTER PMIC EVALUATION KIT

PG & HOT pull-up resistors
(R13, R14, R15, R16)

DD1V block

Schottky barrier diode
between VOUT5V
and VB (D1)

DD5V block

ENSS pull-down resistor
(R24)

EN5V pull-up resistor
(R21)

S6BP501A00SN2B000
(M1)

SW3V block

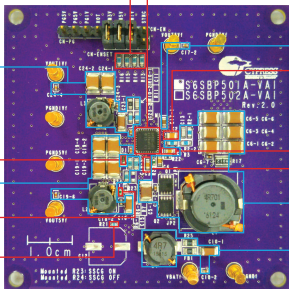
VB capacitor (C2)

VIN capacitor (C1)

VDD capacitor (C3)

DD3V block

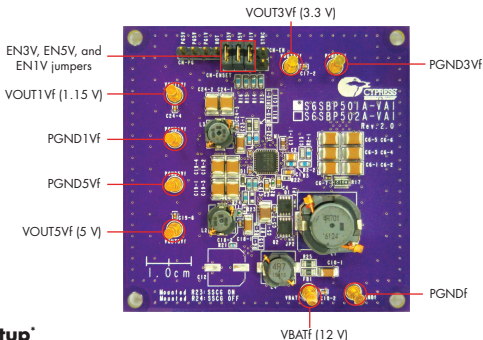
π -type filter block



S6BP501A00VA1001 Features:

- Input voltage range: 4.5 V to 42 V
- 3-ch output PMIC for automotive cluster
- Finely adjustable output voltage
- Built-in π -type filter
- Synchronizable to external clock
- Load-independent Soft-Start
- Size: 6.5 cm x 6.5 cm

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Setup*

- 1 Connect VBATf to a power supply and PGNDf to the ground.
- 2 Insert jumper headers to EN3V, EN5V, and EN1V jumpers.
- 3 Connect each output, VOUT1Vf, VOUT3Vf, and VOUT5Vf to a voltmeter.

Check*

- 1 Apply 12 V to VBATf.
- 2 Each output voltage should be as shown in the figure above.

*Do not supply power to VBATf until the setup is complete.

For the latest information about this kit and hardware files, visit www.cypress.com/S6BP501A/Kit-User-Guide