



this board supplies up to 100mA load current as low as 3.5V input voltage

Vin 6V to 60V

+12V @ 200mAmax

setting output voltage to +15V:
 1) replace R4 by 9.09k Ohms
 2) maximum output current limited to 150mA
 3) as low as 4V input the board supplies 100mA (max. switch current of U1 800mA w.c.)
 4) max. input voltage 57V

RHPZ 45kHz @ 6Vin
 loop bw <9 kHz
 gain x1 (+0dB)
 zero to 6x load pole, here 600Hz
 pole to 10x crossover frequency, here 106kHz
 results in Fco 4kHz (6Vin) to 9kHz (60Vin)
 * verified by NWA *

Revision History	
Revision	Notes
A	*** PRELIMINARY ***
B	modified COMP ZERO, built & tested

NOTES:

- 1) R6 for test purposes only
- 2) complementary SEPIC design +12V to prior Cuk design -12V PMP30373

tiny automotive SEPIC to supply +12V (+15V)

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