



Dual Inductor L1 2x 10uH:
 core material T2, MeFe2O4, Me = Zn 15% / Cu 17% / Mn 16%
 Rp 11.5kOhm, Cp 2.5pF

6.0V..18Vin, 12.0V nom., 4.5V cranking, 40.0V peak

optional input filter

VVULO = 1.5V
 turn on <6.0V
 turn off <4.5V

Fsw 2MHz

OPEN

RHPZ 60.14kHz @ 5Vin
 load resistance 24 Ohms min.
 load pole approx. 133Hz
 ESR zero > 500kHz

set gain to Fco <6kHz @ 5Vin
 set comp zero to 532Hz
 set comp pole to 60kHz..100kHz

VCS = 100mV

ultrafast FET Q1:
 rise time 1ns / fall time 3ns
 gate charge <8nC
 Miller capacitance <9pF

12.0V @ 500mA

VFB = 1.0V

added pole 120kHz to reduce noise at FB

Design Notes:
 - R4 for test purpose only

Revision History	
Revision	Notes
B	*** PRELIMINARY ***

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