This resistor is added to make sure
that whatever capacitance is added
at C2, the DCDC module will always
effectively "see" more than 10mR of ESR

DCM3623T50M53C2T00

33Vin

48Vout, 6Aout

R2
0.015

+ **+**

INPUT

DCDC MODULE

C1
220µF

C2
C

R1
0.05

- **-**

Added ESR resistor

This capacitance may end up
being anywhere between
10uF to 1500uF.