



České popisky vyřešit a smazat! Anglické zachvat — popisují konfiguraci L69 BLM21PG331SN1D L73 Booth step-down are forced to continuous operation to enforce minimal voltage-ripple and fixed switching frequency. BLM21PG331SN1D _____ Frequency is set by external resistor, because according to documentation, it is more accurate and less affected by for example temperature changes then using default frequency by tingting pin to VCC. Switching freq is 2300kHz. 3.3V source parameters: Designed consumption: 0.05A Switching: continuous Frequency: 3.2 MHz (same as 5V source) Delta I: (current ripple), for inductor Irms = 5V source parameters: U9 U11 LTC3601 Designed consumption: 0.8A LTC3601 VCC_FILTERED 15 VCC_FILTERED 15 Switching: continuous Frequency: 3.2 MHz PWR_EN_14 PWR_EN_14 150k 100k Delta I: 1mA (current ripple), for 1mH inductor MODE_SYNC MODE_SYNC Irms = 0.885Å ITH GND ITH C70 +57 B00S1 L? PM5022-102M-RC L68 BOOST +3V3 0.1uF 0.1uF 2.2uH 1mH PG3v3_2 PG5v_2 PGOOD 3V3V0 PGOOD 13 TRACK 13 TRACK Vor Von R37 L C74 R41 L C83 180k 180k 10pF 22uF 10pF 22uF R38 R42 40k 25k GND GND $\uparrow \uparrow$ $\uparrow \uparrow$ \rightarrow GND GND GNDGND GND GNDGND GND GND Over-temperature fuse Power status LED and header output VCC 5V0 3V3V0 Λ VCC R43 R44 R36 240R R70 24k PWR EN VCC_FILTERED PG5v PG3v3 TH1 BZV55C-3,6V D4 RED Thermistor, NCP21XV103J03RA $^{\downarrow}$ D3 RED COMMENTO GND GND GND $^{+}$ GND GND GND LED is powered by 10 mA to ensure that maximum current trough power source PG pin is the same. Ensures that switching frequency is not "transmited by incoming cable and incomming power wires. Title: PWR_EN enables power regulation by voltage above 1.25V. Voltage below 1V turn off internal power source. mlab Thermistor NCP21XV103J03RA with 24k resistor is designed to disconnect electronic at 75C. Author: Page: 3/3 Size: A4 Date: