Voltage regulator

SMD_Packages:SOT-223
U1
AMS1117-3.3

VCC_PRG — 3 IN — GND/ADJ — OUT 2 — VCC_REG
C1 1µF
C2 1µF
GND

Target power select

"A-OFF-B"
SW1
VCC_REG — 1
VCC_PRG — 3
2 — VCC_TARGET
APEM 25439NH
Switches:switch_vert_SPDT_ON-OFF-ON_1H_APEM-25439NH

connectors

INPUT1
MISO_PRG — MISO — 1 2 — VCC — VCC_PRG
SCK_PRG — SCK — 3 4 — MOSI — MOSI_PRG
RESET_PRG — RST — 5 6 — GND — GND
AVR-ISP-6

INPUT2
MOSI_PRG — MOSI — 1 2 — VCC — VCC_PRG
LED/NC — 3 4 — GND
RESET_PRG — RST — 5 6 — GND
SCK_PRG — SCK — 7 8 — GND
MISO_PRG — MISO — 9 10 — GND — GND
AVR-ISP-10

OUTPUT1
MISO_TARGET — MISO — 1 2 — VCC — VCC_TARGET
SCK_TARGET — SCK — 3 4 — MOSI — MOSI_TARGET
RESET_TARGET — RST — 5 6 — GND — GND
AVR-ISP-6

OUTPUT2
MOSI_TARGET — MOSI — 1 2 — VCC — VCC_TARGET
LED/NC — 3 4 — GND
RESET_TARGET — RST — 5 6 — GND
SCK_TARGET — SCK — 7 8 — GND
MISO_TARGET — MISO — 9 10 — GND — GND
AVR-ISP-10

level shifter

Housings_SOT-23_SOT-143_TSOT-6:SOT-23

VCC_PRG — R1 1K5 — Q1 BSS138 — Q2 BSS138 — R2 1K5 — VCC_TARGET
MISO_PRG — MISO_TARGET

VCC_PRG — R3 1K5 — Q3 BSS138 — Q4 BSS138 — R4 1K5 — VCC_TARGET
SCK_PRG — SCK_TARGET

VCC_PRG — R5 1K5 — Q5 BSS138 — Q6 BSS138 — R6 1K5 — VCC_TARGET
RESET_PRG — RESET_TARGET

VCC_PRG — R7 1K5 — Q7 BSS138 — Q8 BSS138 — R8 1K5 — VCC_TARGET
MOSI_PRG — MOSI_TARGET

PWR_FLAG
VCC_PRG