



*Advanced
Innovation
Technology*

AiT SEMi is a leading IC Design and Manufacturing Company, Since 2004, ISO9001 & ISO14001 certificated. Design for Power Management, Discrete and Memory ICs.

AiT SEMi has own passive manufactures – Inductor, Xtal & Fuse to provide Total-Solution to shorten customer's design cycle.

Being worldwide branding company's partner in Automotive, Industrial, Consumer, Medical, Lighting , Telecom, IoT, Home Appliance etc.

AiT SEMi Product Family

Power Management IC

Discrete

Memory

Inductor

Crystal

Fuse

Focus Application



Total - Solution

A7431

DC-DC CONVERTER BUCK (STEP-DOWN) 42V 3A CC/CV



【FEATURES】

- 42V Input Voltage Surge
- 36V Steady State Operation
- Up to 3A Output Current
- Output Voltage up to 12V
- 125kHz Switching Frequency
- Up to 91% Efficiency
- Available in PSOP8 Package

【APPLICATION】

- Car Charger/ Adaptor
- Rechargeable Portable Devices
- General-Purpose CC/CV Supply

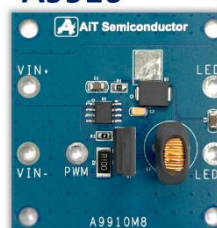


【AiT Opportunity】

- DC-DC : A7431MP8VR
- Inductor : WSL12050-470M
WSG12060-470M
- Discrete : SM540C

A9910

AC-DC LED DRIVER UNIVERSAL HIGH BRIGHTNESS



【FEATURES】

- 10V to 600V input range
- >90% efficiency
- Constant-current LED driver
- Linear and PWM dimming capability
- Input voltage surge ratings up to 600V
- Available in SOP8 Package

【APPLICATION】

- DC/DC or AC/DC LED driver applications
- RGB backlighting LED driver
- Signage and decorative LED lighting



【AiT Opportunity】

- DC-DC : A9910M8VR
- MOSFET : AM10N65T3
- Discrete : S3KBF or S10SC650V





AiT SEMi Product Portfolio

POWER MANAGEMENT IC

AC DC PWM Converter
DC-DC Converter (Boost | Buck)
Regulator (CMOS | Bipolar LDO, Linear | Shunt Regulator)
Gate Driver (IGBT | MOS)
LED Driver (AC-DC | Lighting | Backlight | OLED)
Motor Driver
Touch Screen Driver
Amplifier (Audio | OP Amp | Comparator)
Battery Management (Battery Charger | Battery Protection)
Switch (Analog | Power)
Hall Sensor
Interface (RS-232 | RS-485)
Logic & Level Shift
Reset IC (Supervisor)
IGBT | SiC | GaN
MOSFET (LV | HV | Super Junction | SGT)

DISCRETE

Diodes (Switching | Schottky | Zener | Rectifier)
Protection Device (TVS | ESD)
Transistor (General Purpose | Switching | Bias Resistor | Field-Effect)
Bridge Rectifier

MEMORY

EEPROM I²C | SPI BUS

INDUCTOR

Chip Inductor
Common Mode Choke
Multilayer Chip Bead
Power Inductor
Wire Wound / Molding Type
Through Hole Power Choke

CRYSTAL

Crystal Components (Through Hole | SMD)
Oscillator (CMOS Output | Differential Output)
Ceramic Resonator
TCXO | VCXO | OCXO

FUSE

SMD PPTC Resettable
SMD Lo Rho PPTC
Radial Leaded PTC

AEC-Q Certified

