

Low Voltage UPS - ENYCAP™ - Energy Version - NEW

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Low Voltage UPS - ENYCAP™ - Energy Version - NEW

o Power MOSFETS

- o TVS Protection Diodes
 - o Rectifiers
 - o Capacitors
 - o Resistors
 - o Inductors/EMI Filters
-

Application Overview

In this era of electronics information, our lives are full of the electronics devices. Low Voltage UPS is used to provide stable and long-time backup power to keep devices operating after main power goes down. Hybrid Energy Capacitor as the energy storage device offers great benefits compared to supercapacitor and battery. Hybrid Energy Capacitor needs no balancing circuit to support Modular design and requires no maintenance as it offers extremely long life and high charge/discharge circles. Besides the Hybrid Energy Capacitor has very high energy density(energy stored in unit space) which helps users to achieve long backup time requirement easily.

Low Voltage UPS - ENYCAP™ - Energy Version - NEW : Boost Converter, Current

Measurement

Shunt Resistor

Product Name	Status	Description	Features	Package	Q-Level
WSHP2818		Power Metal Strip® Resistor SMD Low Value	R = 1 mΩ ... 100 mΩ Tol = 0.5 % ... 1 %	s	a

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Bootstrap

MLCC

Product Name	Status	Description	Features	Package	Q-Level
VJ0603Y		Multilayer Ceramic Chip Capacitor SMD High frequency applications	C = 0.5 pF ... 100 µF V= 10V... 100V	r	

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Gate Resistor

Product Name	Status	Description	Features	Package	Q-Level
RCC0603		Lead- Free Thick Film Resistor SMD High pulse performance		s	

Switching Diode

Product Name	Status	Description	Features	Package	Q-Level
1N4148W		Small Signal Fast Switching Diode SMD	VR = 75V	SMD s	a

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IHLE

Product Name	Status	Description	Features	Package	Q-Level
IHLE4040DD		IHLE Inductor SMD Best Saturation Behaviour	DCR down to 33mOhm Integrated E-Shield for Max EMI Reduction	s	

Low Voltage UPS - ENYCAP™ - Energy Version - NEW : Boost Converter, Schottky Diode

Schottky Diode

Product Name	Status	Description	Features	Package	Q-Level
SS5P4		Schottky Barrier Rectifier High Current Density	VRRM = 40 V IF = 5 A	SMD TO-277A	a

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TrenchFET N-MOSFET

Product Name	Status	Description	Features	Package	Q-Level
SiA468DJ		N-Channel 30V (DS) MOSFET SMD PowerPAKSC-70-6L	37.8A RDS(on) = 0.0084 Ω	SMD PowerPAK SC-70-6L	

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RCC

Product Name	Status	Description	Features	Package	Q-Level
RCC0603		Lead- Free Thick Film Resistor SMD High pulse performance		s	

Low Voltage UPS - ENYCAP™ - Energy Version - NEW : Buck Converter, Buffer Capacitor

MLCC

Product Name	Status	Description	Features	Package	Q-Level
VJ1210		Multilayer Ceramic Chip Capacitor SMD High frequency applications	C = 0.5 pF ... 100 μ F V= 10V... 100V	SMD	

Low Voltage UPS - ENYCAP™ - Energy Version - NEW : Buck Converter, Current Measurement

Shunt Resistor

Product Name	Status	Description	Features	Package	Q-Level
WSLP2010		Power Metal Strip® Resistor SMD Low ohm value	R = 1 mΩ ... 30 mΩ 0,2Ω to 4 mΩ ; Up to 10W	SMD 2010	A

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Bootstrap

MLCC

Product Name	Status	Description	Features	Package	Q-Level
VJ0603Y		Multilayer Ceramic Chip Capacitor SMD High frequency applications	C = 0.5 pF ... 100 µF V= 10V... 100V	SMD	

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IHLE

Product Name	Status	Description	Features	Package	Q-Level
IHLE2525CD		IHLE Inductor SMD Best Saturation Behaviour	DCR down to 71mOhm(10uh) Integrated E-Shield for Max EMI Reduction	S	

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TrenchFET® Gen IV MOS

Product Name	Status	Description	Features	Package	Q-Level
SiSA18ADN		N-Channel 30V (DS) MOSFET SMD PowerPAK® 1212-8S	38.3A RDS(on) = 0.0075 Ω	SMD PowerPAK® 1212-8	

Low Voltage UPS - ENYCAP™ - Energy Version - NEW : Buck Converter, Voltage Divider

RCC

Product Name	Status	Description	Features	Package	Q-Level
RCC0603		Lead- Free Thick Film Resistor SMD High pulse performance		S	

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Inductor

Product Name	Status	Description	Features	Package	Q-Level
IHLP1616		IHLP Inductor SMD Best Saturation Behaviour	DCR down to 5mOhm	SMD	

MLCC

Product Name	Status	Description	Features	Package	Q-Level
VJ0603Y		Tantalum Nitrite Resistor Film SMD High frequency applications	C = 0.5 pF ... 100 μ F v	ra	

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TVS Diode

Product Name	Status	Description	Features	Package	Q-Level
VTVS		TransZorb Transient Voltage Suppressor SMD SMF-Package	VWM= 5V...63V PPPM=400W	S	

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Protection

Schottky Diode

Product Name	Status	Description	Features	Package	Q-Level
SS5P4		Schottky Barrier Rectifier High Current Density	VRRM = 40 V IF = 5 A	SMD TO-277A	

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HVC196

Product Name	Status	Description	Features	Package	Q-Level
MAL219690108E3		Hybrid Energy Capacitor High Rated Voltage(8.4V) High Energy density	C=90F No cell balancing necessary Low Leakage Current = 0.5mA	Through Hole 35 x 25 x 20.0	