

Low Voltage UPS - ENYCAPTM - 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 people life is 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 down. Hybrid Energy Capacitor as energy storage device offer great benefit compared to supercapacitor and battery. Hybrid Energy Capacitor need no balancing circuit to support Modular design and require no maintenance as it offer extremely long life time and high charge/discharge circles. Besides Hybrid Energy Capacitor has very high energy density(energy stored in Unit space) which help user to achieve long backup time requirement easily.

Low Voltage UPS - ENYCAPTM - 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

Low Voltage UPS - ENYCAPTM - Energy Version - NEW : Boost Converter, Decoupling/

Bootstrap

MLCC

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

Low Voltage UPS - ENYCAPTM - Energy Version - NEW : Boost Converter, Gater Driver

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 - ENYCAPTM - 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-MOS

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	

Low Voltage UPS - ENYCAPTM - Energy Version - NEW : Boost Converter, Voltage Divider

RCC

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

Low Voltage UPS - ENYCAPTM - 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 - ENYCAPTM - 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

Low Voltage UPS - ENYCAPTM - Energy Version - NEW : Buck Converter, Decoupling/

Bootstrap

MLCC

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

Low Voltage UPS - ENYCAPTM - Energy Version - NEW : Buck Converter, Inductor

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	

Low Voltage UPS - ENYCAPTM - Energy Version - NEW : Buck Converter, Transistor

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 - ENYCAPTM - 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	

Low Voltage UPS - ENYCAPTM - Energy Version - NEW : Input Stage, EMI Filter

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	

Low Voltage UPS - ENYCAPTM - Energy Version - NEW : Input Stage, Overvoltage Protection

TVS Diode

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

Low Voltage UPS - ENYCAPTM - Energy Version - NEW : Input Stage, Reverse Polarity

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	

Low Voltage UPS - ENYCAPTM - Energy Version - NEW : Storage Element, Energy Capacitor

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	