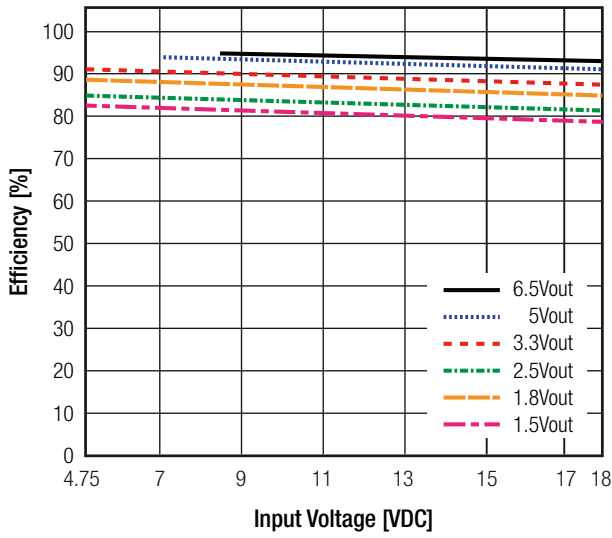
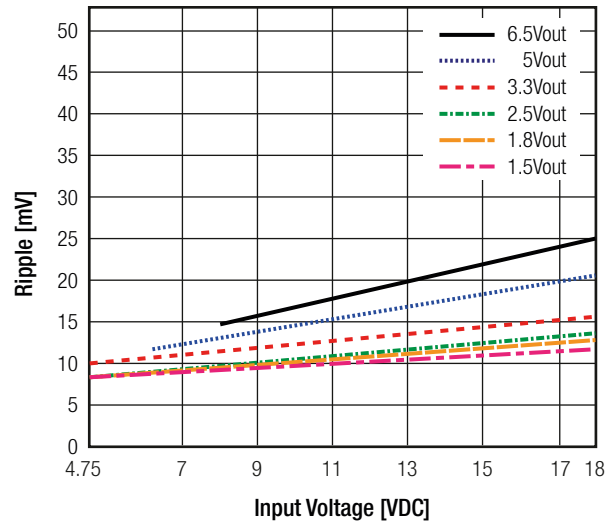


Specifications (measured @ Ta= 25°C, 10% minimum load, unless otherwise stated)

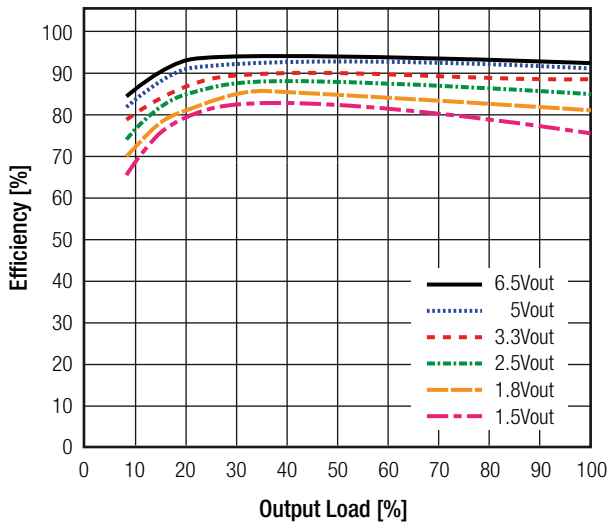
Efficiency vs. Vin (full load)



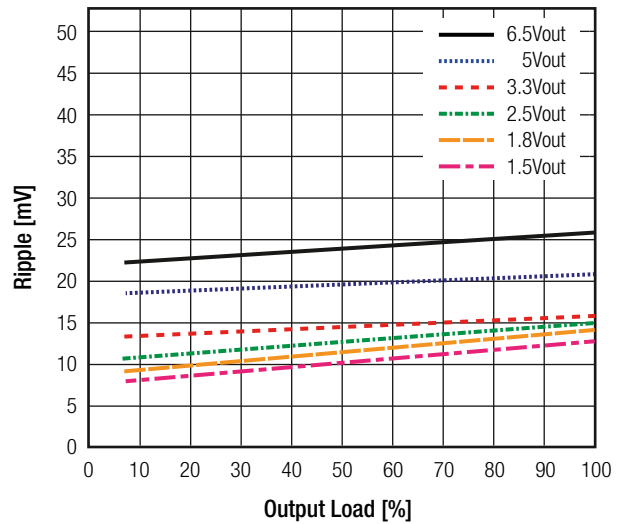
Ripple vs. Vin (full load)



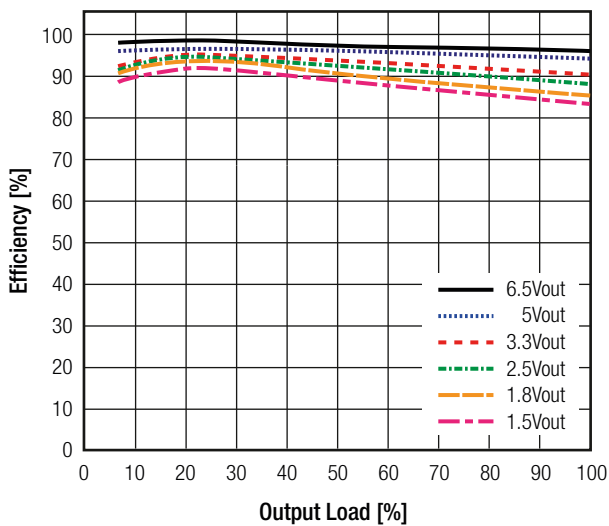
Efficiency vs. Load (max. Vin)



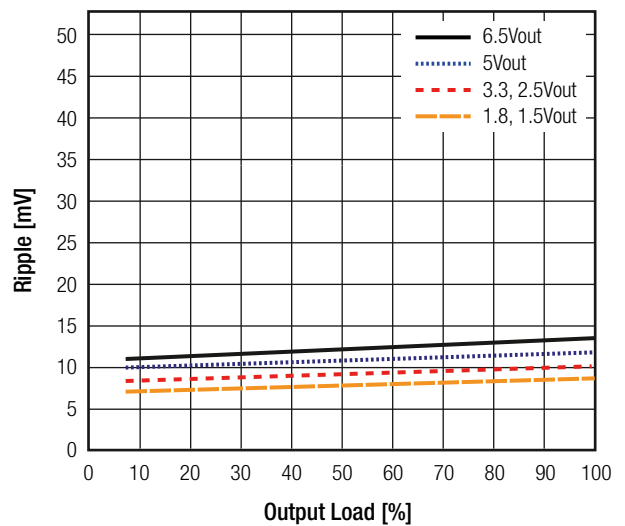
Ripple vs. Load (max. Vin)



Efficiency vs. Load (min. Vin)



Ripple vs. Load (min. Vin)



Specifications (measured @ Ta= 25°C, 10% minimum load, unless otherwise stated)

REGULATIONS

Parameter	Condition	Value
Output Accuracy	100% load	±2.0% typ / ±3.0% max.
Line Regulation	low line to high line, full load	±0.3% typ. / ±0.5% max.
Load Regulation	10% to 100% load	±0.6% typ. / ±0.8% max.
Transient Response	100% <-> 50% load Recovery Time	±80mV typ. / ±120mV max. 1.0ms min. / 1.5ms typ.

PROTECTIONS

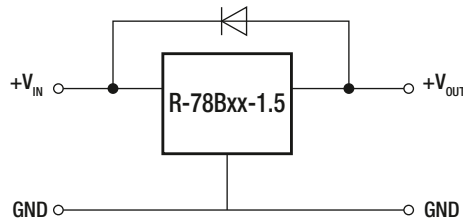
Parameter	Condition	Value
Short Circuit Protection (SCP)	below 100mΩ	continuous, automatic recovery
Short Circuit Input Current	nom. Vin= 12VDC	100mA max.

Optional Diode Protection Circuit

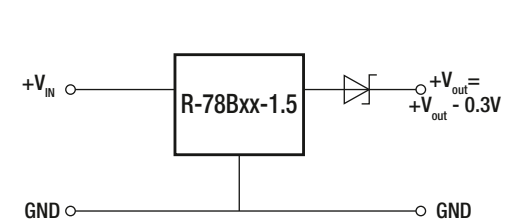
Add a blocking diode to Vout if current can flow backwards into the output, as this can damage the converter when it is powered down.

The diode can either be fitted across the device if the source is low impedance or fitted in series with the output (recommended).

Optional Protection 1:



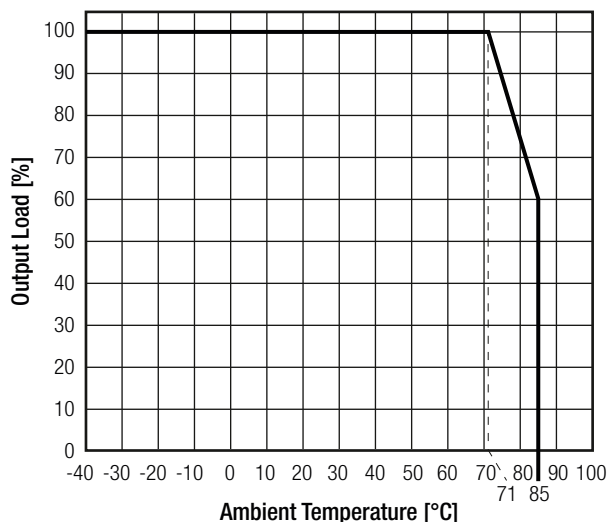
Optional Protection 2:



ENVIRONMENTAL

Parameter	Condition	Value
Operating Temperature Range	with derating (see graph)	-40°C to +85°C
Maximum Case Temperature		+100°C
Temperature Coefficient		±0.015%/°C
Thermal Impedance	0.1 m/s, vertical	60°C/W
Operating Altitude		2000m
Operating Humidity	non-condensing	95% RH max.
Pollution Degree		PD2
MTBF	according to MIL-HDBK-217F, G.B.	+25°C 5019 x 10 ³ hours

Derating Graph



Specifications (measured @ Ta= 25°C, 10% minimum load, unless otherwise stated)

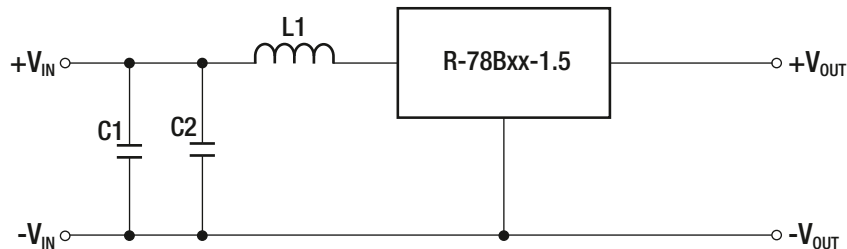
SAFETY AND CERTIFICATIONS

Certificate Type (Safety)	Report / File Number	Standard
Information Technology Equipment, General Requirements for Safety	1603123	IEC60950-1:2005, 2nd Edition + AM 2:2013 EN60950-1:2006 + AM 2:2013
EAC	RU-AT.49.09571	TP TC 004/2011
RoHs 2+		RoHS 2011/65/EU + AM2015/863

EMC Compliance

EMC Compliance	Condition	Standard / Criterion
Electromagnetic compatibility of multimedia equipment - Emission requirements	with external components	EN55032, Class A EN55032, Class B
ESD Electrostatic Discharge Immunity Test	Air ±8kV, Contact ±4kV	EN61000-4-2, Criteria A
Radiated, Radio-Frequency, Electromagnetic Field Immunity Test	3V/m	EN61000-4-3, Criteria A

EMC Filter Suggestion according EN55032 Class A and Class B



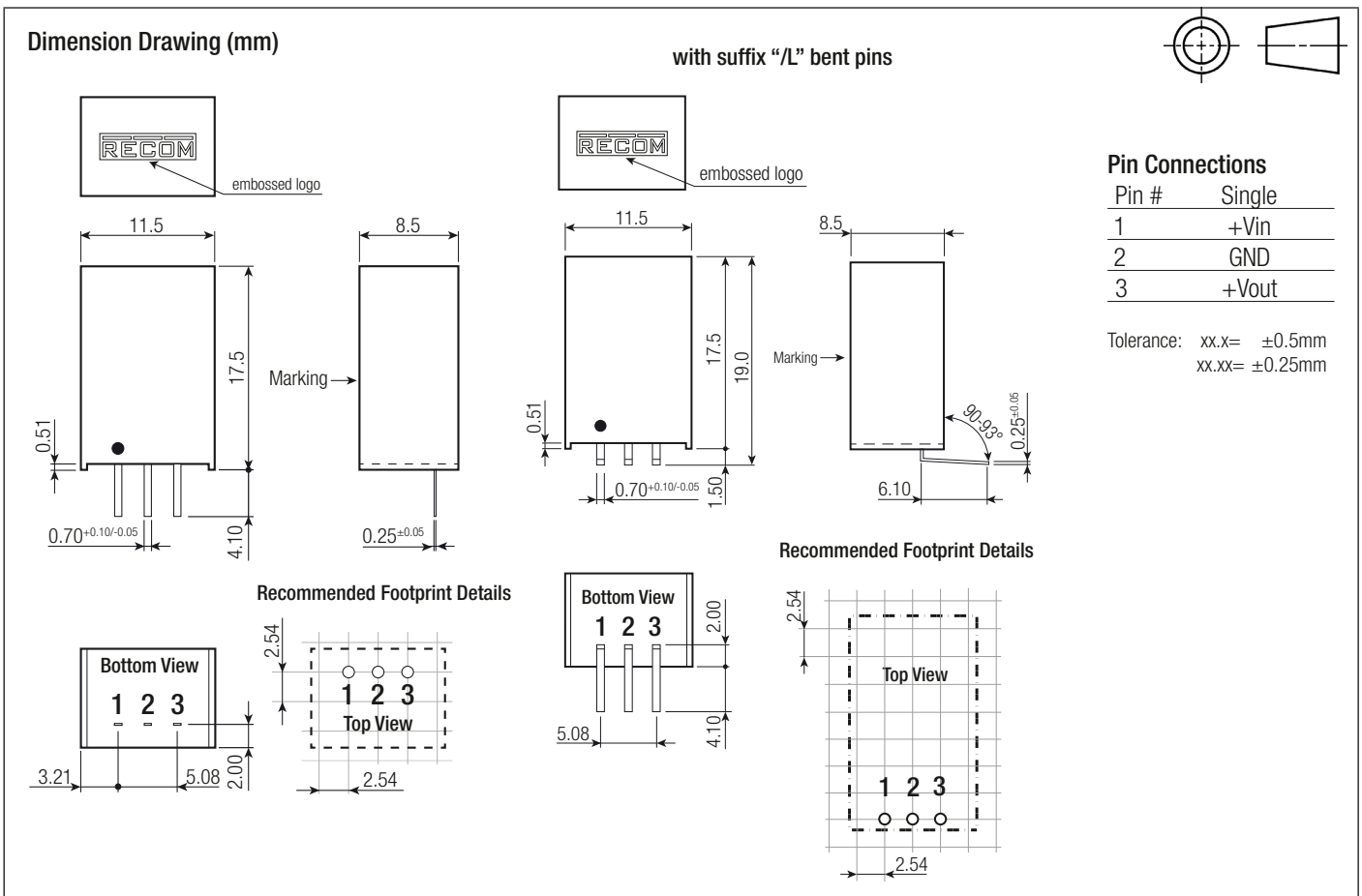
Level	C1	C2	L1
Class A	10µF 100V MLCC	-	3.9µH choke
Class B	10µF 100V MLCC	4.7µF 50V MLCC	5.6µH choke

DIMENSION AND PHYSICAL CHARACTERISTICS

Parameter	Type	Value
Material	case potting	non-conductive black plastic, (UL94 V-0) silicone, (UL94 V-0)
Package Dimension (LxWxH)		11.5 x 8.5 x 17.5mm
Package Weight		4g typ.

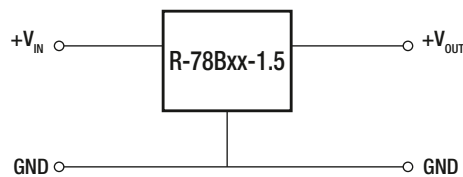
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Specifications (measured @ Ta= 25°C, 10% minimum load, unless otherwise stated)



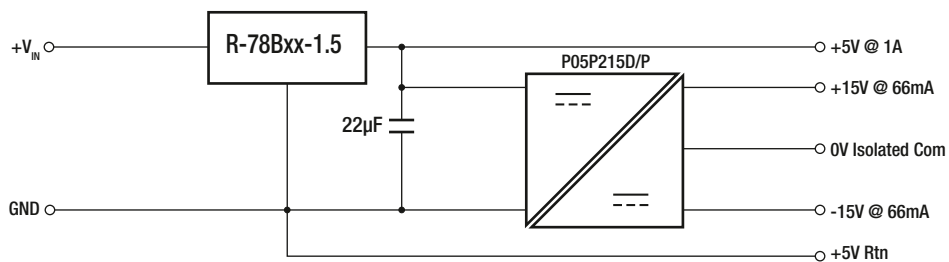
INSTALLATION AND APPLICATION

Typical Application Circuit



Application Examples

High Efficiency Multiple Output

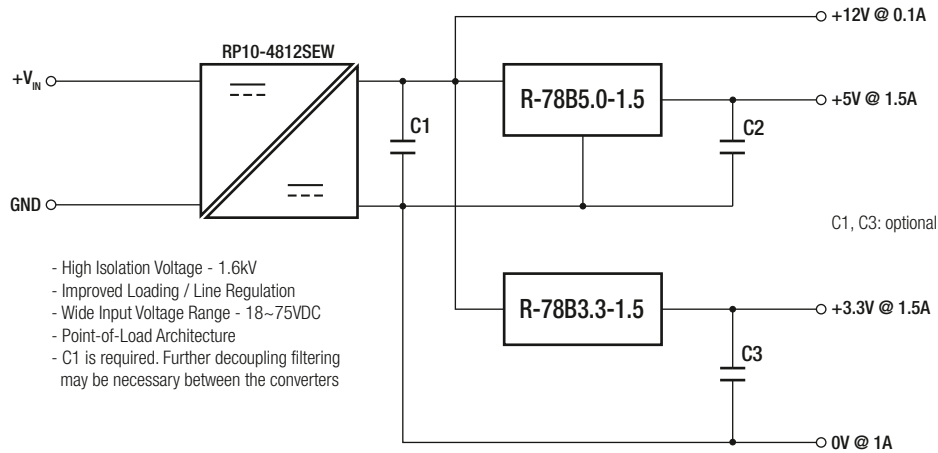


- Wide input range suits both 12V and 7.2V battery packs
- 5.2kV isolated short circuit protected outputs for analogue circuits, e.g. medical grade interface
- High efficiency +5V/1A protected output for digital circuits
- Further decoupling filtering may be necessary between the converters

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Specifications (measured @ Ta= 25°C, 10% minimum load, unless otherwise stated)

Isolated, Wide Input Range, Distributed Power Architecture (Point-of-Load)



PACKAGING INFORMATION

Parameter	Type		Value
	tube	without suffix with suffix "L"	
Packaging Dimension (LxWxH)			520.0 x 25.1 x 10.6mm 520.0 x 26.1 x 15.8mm
Packaging Quantity	tube		42pcs
Storage Temperature Range			-55°C to +125°C
Storage Humidity			95% RH max.

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