Standard Type DC-DC Converter (1.5W 3W)

SIP type is resin coating for small space, and DIP type is resin case, steer cover and resin coating for low profile application.

Characteristics

(1) Thin and lightweight
(2) Excellent heat radiation and miniaturization due to alumina substrate
(3) Excellent isolation ability between input and output
(4) No attachment necessary
(5) Circuit with built-in excess current protection
(6) Adapted to the RoHS directive (2002/95/EC)

Specification

Output Power	Input Voltage	Output Voltage	Output Current	Efficiency	Part Number	Style No. B	C	D	E
1.5W	4.5 to 7.2V (5VTYP)	5V	300mA	68%	ZHRM1R50505 □R				
		12V	125mA	70%	0512 □R				
		15V	100mA	71%	0515 □R				
	8 to 16.5V (12VTYP)	5V	300mA	72%	1205 □R				
		12V	125mA	73%	1212 □R				
		15V	100mA	74%	1215 □R				
	18 to 32V (24VTYP)	5V	300mA	73%	2405 □R				
		12V	125mA	76%	2412 □R				
		15V	100mA	76%	2415 □R				
	4.5 to 7.2V (5VTYP)	±12V	±63mA	70%	ZHRP1R50512 □R				
		±15V	±50mA	68%	0515 □R				
	8 to 16.5V (12VTYP)	±12V	±63mA	71%	1212 □R				
		±15V	±50mA	73%	1215 □R				
	18 to 32V (24VTYP)	±12V	±63mA	72%	2412 □R				
		±15V	±50mA	74%	2415 □R				
3W	4.5 to 7.2V (5VTYP)	5V	600mA	72%	ZHRM0300505 □R				
		12V	250mA	77%	0512 □R				
		15V	200mA	77%	0515 □R				
	8 to 16.5V (12VTYP)	5V	600mA	74%	1205 □R				
		12V	250mA	80%	1212 □R				
		15V	200mA	80%	1215 □R				
	18 to 32V (24VTYP)	5V	600mA	76%	2405 □R				
		12V	250mA	81%	2412 □R				
		15V	200mA	81%	2415 □R				
	4.5 to 7.2V (5VTYP)	±12V	±125mA	72%	ZHRP0300512 □R				
		±15V	±100mA	75%	0515 □R				
	8 to 16.5V (12VTYP)	±12V	±125mA	74%	1212 □R				
		±15V	±100mA	75%	1215 □R				
	18 to 32V (24VTYP)	±12V	±125mA	74%	2412 □R				
		±15V	±100mA	76%	2415 □R				

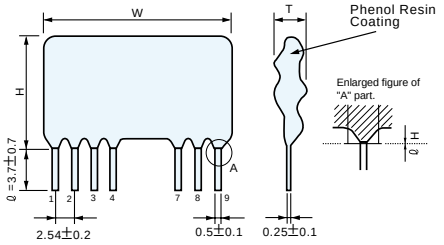
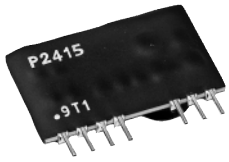
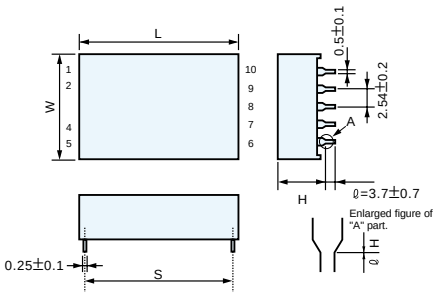
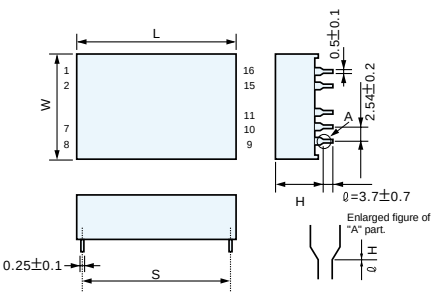
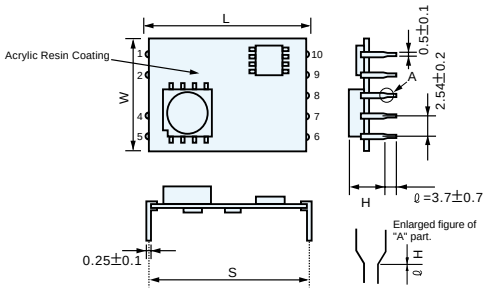
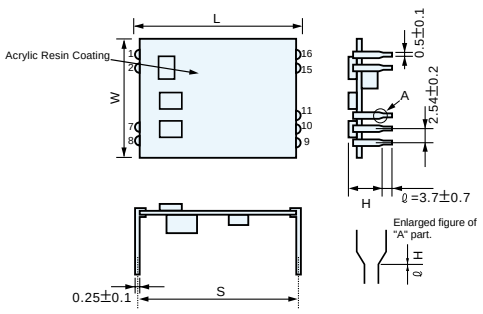
□: Style code Except ■: Accept an order

Output Power	Style No.	Measurement L	W	H	S
1.5W	B	26.5 $^{\pm0.2}$	17.4 $^{\pm0.2}$	8.1 ^{MAX}	24.95 $^{\pm0.5}$
	C	28.0 ^{MAX}	18.7 ^{MAX}	8.8 ^{MAX}	24.95 $^{\pm0.5}$
	D	26.0 ^{MAX}	16.5 ^{MAX}	7.3 ^{MAX}	24.95 $^{\pm0.5}$
	E	—	26.5 ^{MAX}	18.0 ^{MAX}	—
		T=10.5MAX (Single Output) T= 9.0MAX (Double Output)			
3W	B	34.5 $^{\pm0.2}$	24.7 $^{\pm0.2}$	8.8 ^{MAX}	32.95 $^{\pm0.5}$
	C	36.0 ^{MAX}	26.0 ^{MAX}	9.5 ^{MAX}	32.95 $^{\pm0.5}$
	D	34.0 ^{MAX}	23.5 ^{MAX}	7.5 ^{MAX}	32.95 $^{\pm0.5}$

Output Tolerance : ±5%
Over Current Protection : Functions at 105% or more of the rated output current・Automatically restored
Withstanding Voltage : Between input and output AC500V for 1minute 5mA

Insulation Resistance : Between input and output terminals DC500V, more than 100MΩ (25˚C 70%)
Operating Temperature/Humidity : -10 to +71˚C 20 to 95%RH (No dewdrops)
Storage Temperature/Humidity : -40 to +85˚C 20 to 95%RH (No dewdrops)

Exterior and Measurement Map (unit : mm)

	1.5W	3W	notes
SIP Type			Style No.E Resin Coating •Horizontal Type, Space Saver 
DIP Type			Style No.B Resin Case •Standard Type Style No.C Steel Cover •Reduce Radiation Noise 
			Style No.D Resin Coating •DIP Style