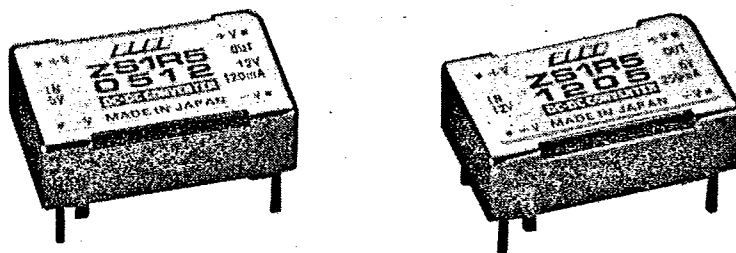


Z SERIES DC-DC CONVERTER

ZS1R5 1.5W Single output

SUPERTEK



Z series DC-DC converter is designed for Small size, high reliability and high quality use.

- Isolated output.
- Over current protection.
- Small and compact size.

NAMING

ZS1R50512



SPECIFICATIONS

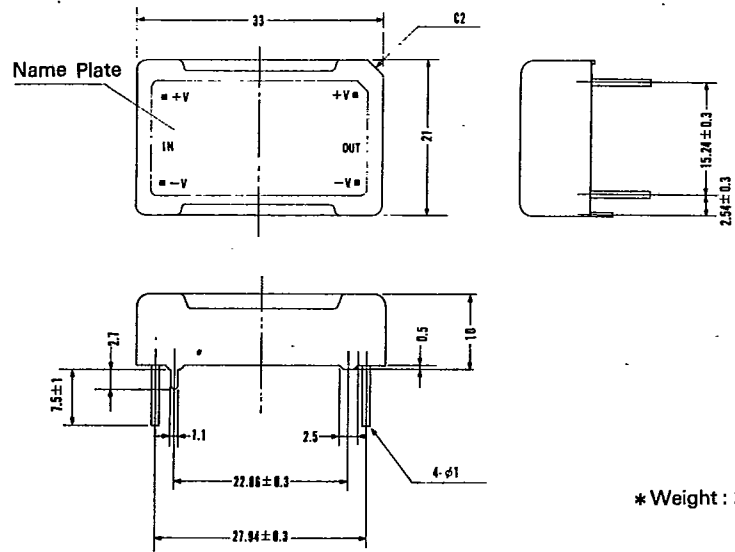
	MODEL	ZS1R50505	ZS1R50512	ZS1R50515	ZS1R51205	ZS1R51212	ZS1R51215	ZS1R52405	ZS1R52412	ZS1R52415
INPUT	VOLTAGE (V)	5(4.5~6.0)			12(10~15)			24(20~30)		
	EFFICIENCY (%)	60typ	60typ	60typ	65typ	65typ	65typ	65typ	65typ	65typ
OUTPUT	VOLTAGE (V)	5	12	15	5	12	15	5	12	15
	CURRENT (A)	0.25	0.12	0.1	0.25	0.12	0.1	0.25	0.12	0.1
	REGULATION LINE (mV)	25max	60max	75max	25max	60max	75max	25max	60max	75max
	REGULATION LOAD (mV)	50max	120max	150max	50max	120max	150max	50max	120max	150max
	RIPPLE (mVp-p)	100max	120max	120max	100max	120max	120max	100max	120max	120max
	RIPPLE NOISE (mVp-p)	120max	120max	120max	120max	120max	120max	120max	120max	120max
	TEMPERATURE (mV) DRIFTING 0~+50°C	50max	120max	150max	50max	120max	150max	50max	120max	150max
	OUTPUT VOLTAGE SETTING (%)	± 5 max of nominal Voltage								
PROTECTION CIRCUIT	OVER CURRENT PROTECTION	Works over 105% of rating and recovers automatically								
ELECTRICALLY ISOLATED	HIGH POT.	Input-Output, Input-Case, Output-Case AC500V 1minute (At room Temp. and Humid.)								
	ISOLATION	Input-Output, Input-Case, Output-Case DC500V 50M ohm (At room Temp. and Humid.)								
ENVIRONMENT	OPERATING TEMP. AND HUMID.	0~+50°C, 20~90%RH (Non condensing)								
	STORAGE TEMP. AND HUMID.	-20~+75°C, 20~90%RH (Non condensing)								
	VIBRATION	10~55Hz and 2G 3minutes periods. 30 minutes along X, Y and Z directions.								
	IMPACT	20G 11ms, once each X, Y, Z directions.								

* No parallel operation is permitted.

ZS1R5

SUPERTEK

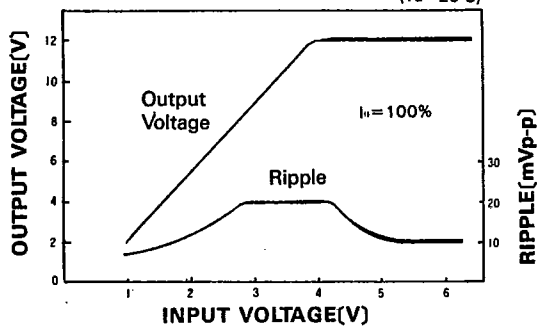
EXTERNAL VIEW



(mm)
* Weight : 25g or less

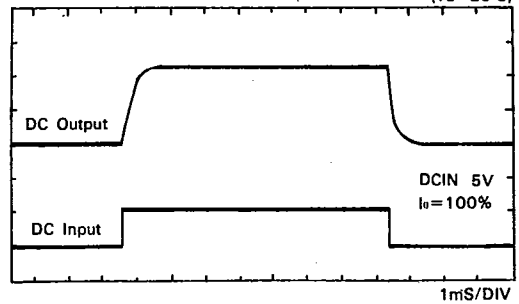
STATIC CHARACTERISTICS (ZS1R512)

(Ta = 25°C)



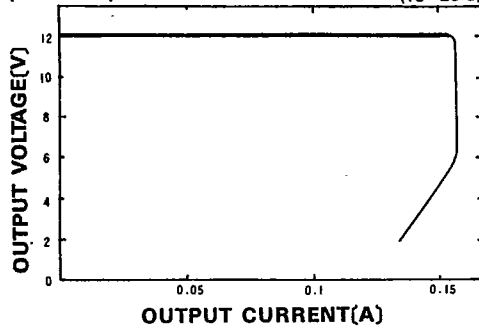
RISE TIME & FALL TIME (ZS1R512)

(Ta = 25°C)

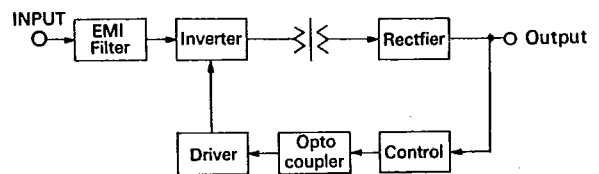


OUTPUT CURRENT V.S. OUTPUT VOLTAGE (ZS1R512)

(Ta = 25°C)



BLOCK DIAGRAM



* Z series switching power supply is warranted for one year period.
* Above all specifications are subject to change for improvement without notice.