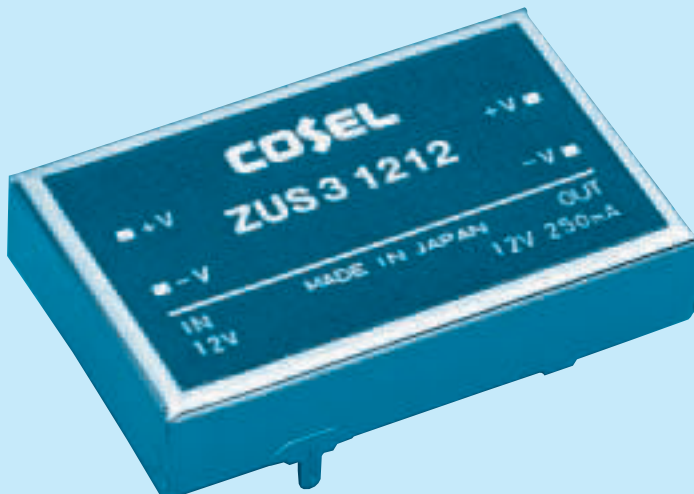




- 1 Series name  
2 Single output  
3 Output wattage  
4 Input voltage  
5 Output voltage

## TRC Electronics, Inc.

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| MODEL                 | ZUS30505   | ZUS30512 | ZUS30515 | ZUS31205 | ZUS31212 | ZUS31215 | ZUS32405 | ZUS32412 | ZUS32415 | ZUS34805 | ZUS34812 | ZUS34815 |
|-----------------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| MAX OUTPUT WATTAGE[W] | 3          | 3        | 3        | 3        | 3        | 3        | 3        | 3        | 3        | 3        | 3        | 3        |
| DC OUTPUT             | VOLTAGE[V] | 5        | 12       | 15       | 5        | 12       | 15       | 5        | 12       | 15       | 5        | 12       |
|                       | CURRENT[A] | 0.60     | 0.25     | 0.20     | 0.60     | 0.25     | 0.20     | 0.60     | 0.25     | 0.20     | 0.60     | 0.25     |

## SPECIFICATIONS

|                    | MODEL                                | ZUS30505                                                                                     | ZUS30512 | ZUS30515 | ZUS31205 | ZUS31212 | ZUS31215 | ZUS32405  | ZUS32412 | ZUS32415 | ZUS34805  | ZUS34812 | ZUS34815 |
|--------------------|--------------------------------------|----------------------------------------------------------------------------------------------|----------|----------|----------|----------|----------|-----------|----------|----------|-----------|----------|----------|
| INPUT              | VOLTAGE[V]                           | DC4.5 - 9                                                                                    |          |          | DC9 - 18 |          |          | DC18 - 36 |          |          | DC36 - 72 |          |          |
|                    | CURRENT[A]                           | *1 0.896typ                                                                                  | 0.857typ | 0.857typ | 0.357typ | 0.338typ | 0.338typ | 0.176typ  | 0.167typ | 0.167typ | 0.088typ  | 0.082typ | 0.082typ |
|                    | EFFICIENCY[%]                        | *1 67typ                                                                                     | 70typ    | 70typ    | 70typ    | 74typ    | 74typ    | 71typ     | 75typ    | 75typ    | 71typ     | 76typ    | 76typ    |
| OUTPUT             | VOLTAGE[V]                           | 5                                                                                            | 12       | 15       | 5        | 12       | 15       | 5         | 12       | 15       | 5         | 12       | 15       |
|                    | CURRENT[A]                           | 0.60                                                                                         | 0.25     | 0.20     | 0.60     | 0.25     | 0.20     | 0.60      | 0.25     | 0.20     | 0.60      | 0.25     | 0.20     |
|                    | LINE REGULATION[mV]                  | 20max                                                                                        | 48max    | 60max    | 20max    | 48max    | 60max    | 20max     | 48max    | 60max    | 20max     | 48max    | 60max    |
|                    | LOAD REGULATION[mV]                  | 40max                                                                                        | 100max   | 120max   | 40max    | 100max   | 120max   | 40max     | 100max   | 120max   | 40max     | 100max   | 120max   |
|                    | RIPPLE[mVp-p]                        | *2 80max                                                                                     | 120max   | 120max   | 80max    | 120max   | 120max   | 80max     | 120max   | 120max   | 80max     | 120max   | 120max   |
|                    | RIPPLE NOISE[mVp-p]                  | *2 120max                                                                                    | 150max   | 150max   | 120max   | 150max   | 150max   | 120max    | 150max   | 150max   | 120max    | 150max   | 150max   |
|                    | TEMPERATURE REGULATION[mV]           | -20 to +55°C                                                                                 | 50max    | 150max   | 180max   | 50max    | 150max   | 180max    | 50max    | 150max   | 180max    | 50max    | 150max   |
|                    | DRIFT[mV]                            | *3 20max                                                                                     | 48max    | 60max    | 20max    | 48max    | 60max    | 20max     | 48max    | 60max    | 20max     | 48max    | 60max    |
|                    | START-UP TIME[ms]                    | 20max (Minimum input, Io=100%)                                                               |          |          |          |          |          |           |          |          |           |          |          |
|                    | OUTPUT VOLTAGE ADJUSTMENT RANGE[V]   | Fixed                                                                                        |          |          |          |          |          |           |          |          |           |          |          |
| PROTECTION CIRCUIT | OVERCURRENT PROTECTION               | Works over 105% of rating and recovers automatically                                         |          |          |          |          |          |           |          |          |           |          |          |
|                    | INPUT-OUTPUT                         | AC500V 1minute, Cutoff current = 10mA, DC500V 50MW min (20 t 15°C)                           |          |          |          |          |          |           |          |          |           |          |          |
| ISOLATION          | INPUT-CASE                           | AC500V 1minute, Cutoff current = 10mA, DC500V 50MW min (20 t 15°C)                           |          |          |          |          |          |           |          |          |           |          |          |
|                    | OUTPUT-CASE                          | AC500V 1minute, Cutoff current = 10mA, DC500V 50MW min (20 t 15°C)                           |          |          |          |          |          |           |          |          |           |          |          |
| ENVIRONMENT        | OPERATING TEMP., HUMID. AND ALTITUDE | -20 to +71°C, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max |          |          |          |          |          |           |          |          |           |          |          |
|                    | STORAGE TEMP., HUMID. AND ALTITUDE   | -40 to +85°C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max                           |          |          |          |          |          |           |          |          |           |          |          |
|                    | VIBRATION                            | 10 - 55Hz, 98.0m/s <sup>2</sup> (10G), 3minutes period, 60minutes each along X, Y and Z axis |          |          |          |          |          |           |          |          |           |          |          |
|                    | IMPACT                               | 490.3m/s <sup>2</sup> (50G), 11ms, once each X, Y and Z axis                                 |          |          |          |          |          |           |          |          |           |          |          |
| SAFETY             | AGENCY APPROVALS                     | UL1950, EN60950, CSA C22.2 No.950 Complies with IEC60950                                     |          |          |          |          |          |           |          |          |           |          |          |
| OTHERS             | CASE SIZE/WEIGHT                     | 35 X 7 X 23mm (W X H X D) / 16g max                                                          |          |          |          |          |          |           |          |          |           |          |          |
|                    | COOLING METHOD                       | Convection                                                                                   |          |          |          |          |          |           |          |          |           |          |          |

\*1 Rated input, 5V, 12V, 24V or 48V DC, Io=100%

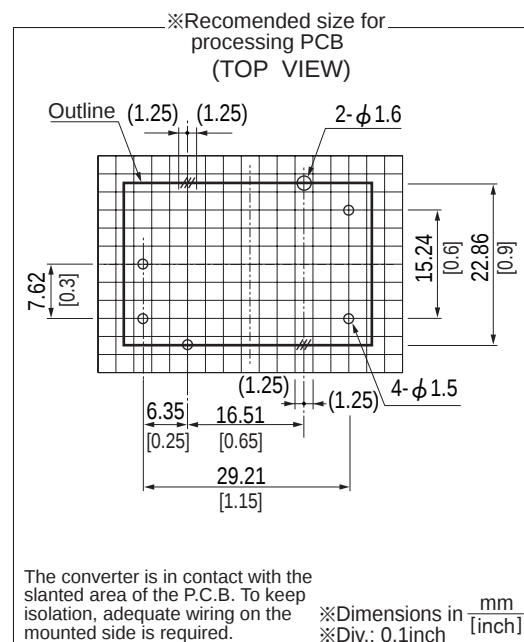
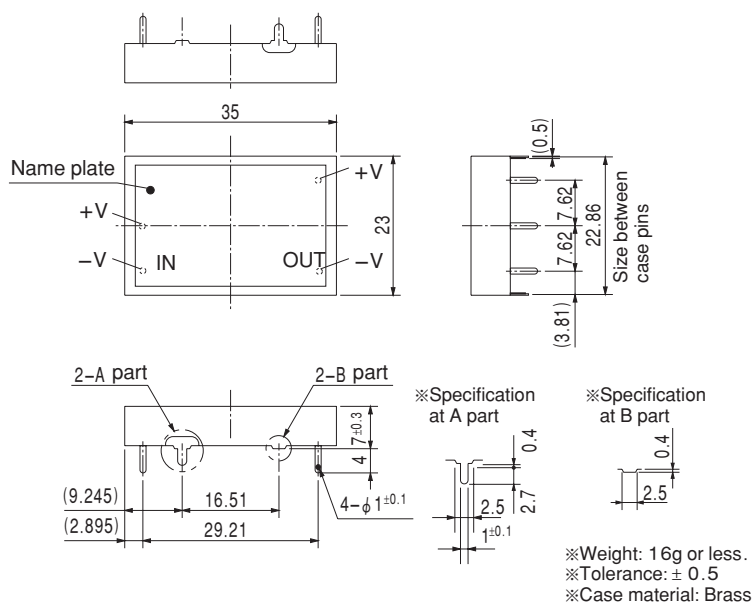
\*2 Measured by 20MHz oscilloscope.

\*3 The drift is a change at 25°C of ambient temperature and 30 minutes - 8 hours after the in

\* Series/Parallel operation with other model is not possible.

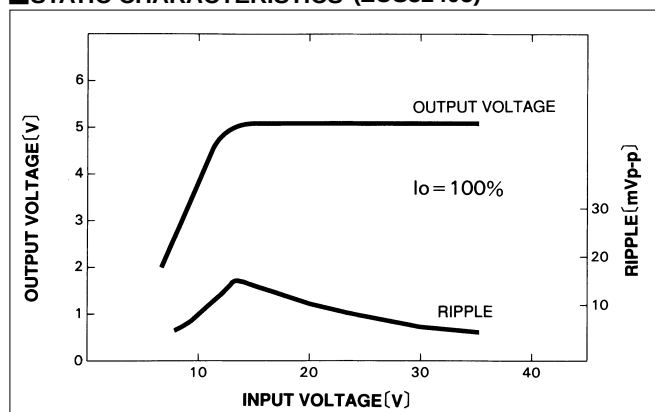
put voltage applied at rated input/output.

## External view

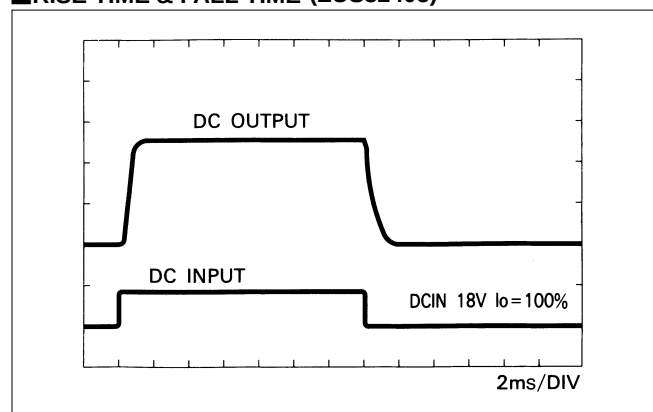


## Performance data

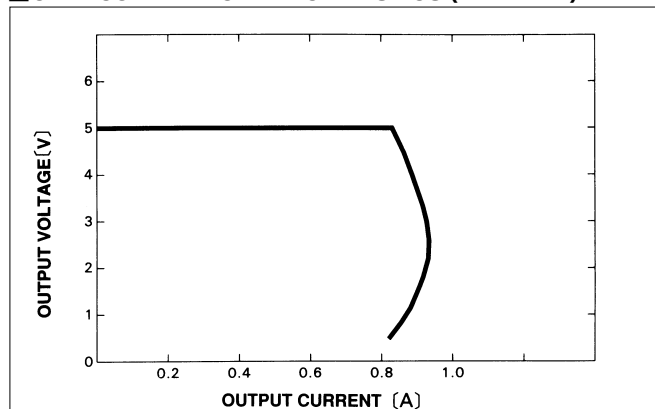
## ■ STATIC CHARACTERISTICS (ZUS32405)



### ■ RISE TIME & FALL TIME (ZUS32405)



## ■ OVERCURRENT CHARACTERISTICS (ZUS32405)



### DERATING CURVE

