

[Home](#) > Product Details

## ZTS3



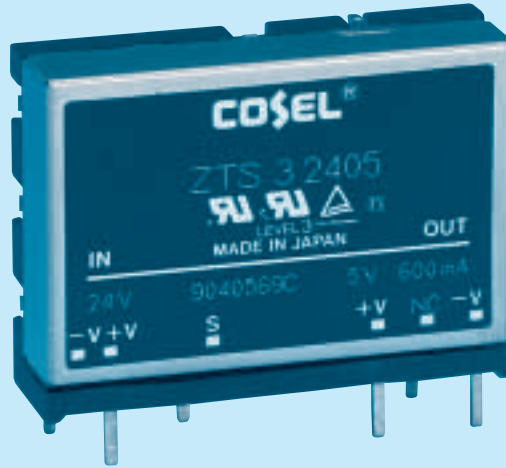
### Features

- UL recognized, TV approved, CSA certified
- Isolated between input-output
- Thin profile
- Built-in Over Current Protection
- RoHS Compliant

**5 year warranty(refer to Instruction Manual)**

| Model    | Input Voltage [V] | Output Wattage [W] | DC Output [V/A] |
|----------|-------------------|--------------------|-----------------|
| ZTS30505 | DC 4.5 - 9        | 3                  | 5V<br>0.6A      |
| ZTS30512 | DC 4.5 - 9        | 3                  | 12V<br>0.25A    |
| ZTS30515 | DC 4.5 - 9        | 3                  | 15V<br>0.2A     |
| ZTS31205 | DC 9 - 18         | 3                  | 5V<br>0.6A      |
| ZTS31212 | DC 9 - 18         | 3                  | 12V<br>0.25A    |
| ZTS31215 | DC 9 - 18         | 3                  | 15V<br>0.2A     |
| ZTS32405 | DC 18 - 36        | 3                  | 5V<br>0.6A      |
| ZTS32412 | DC 18 - 36        | 3                  | 12V<br>0.25A    |
| ZTS32415 | DC 18 - 36        | 3                  | 15V<br>0.2A     |
| ZTS34805 | DC 36 - 72        | 3                  | 5V<br>0.6A      |
| ZTS34812 | DC 36 - 72        | 3                  | 12V<br>0.25A    |
| ZTS34815 | DC 36 - 72        | 3                  | 15V<br>0.2A     |

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



| MODEL                 | ZTS30505   | ZTS30512 | ZTS30515 | ZTS31205 | ZTS31212 | ZTS31215 | ZTS32405 | ZTS32412 | ZTS32415 | ZTS34805 | ZTS34812 | ZTS34815 |      |
|-----------------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|
| 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       | 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 |

SPECIFICATIONS

|                           | MODEL                                | ZTS30505   | ZTS30512      | ZTS30515    | ZTS31205      | ZTS31212      | ZTS31215    | ZTS32405      | ZTS32412      | ZTS32415    | ZTS34805      | ZTS34812      | ZTS34815 |        |
|---------------------------|--------------------------------------|--|---------------|-------------|---------------|---------------|-------------|---------------|---------------|-------------|---------------|---------------|----------|--------|
| INPUT                     | VOLTAGE[V]                           | DC4.5 - 9  |               |             | DC9 - 18      |               |             | DC18 - 36     |               |             | DC36 - 72     |               |          |        |
|                           | CURRENT[A]                           | *1 0.896typ  | 0.857typ      |             | 0.357typ      | 0.338typ      |             | 0.176typ      | 0.167typ      |             | 0.088typ      | 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   | 180max |
|                           | DRIFT[mV]                            | *3 20max   | 48max         | 60max       | 20max         | 48max         | 60max       | 20max         | 48max         | 60max       | 20max         | 48max         | 60max    |        |
|                           | START-UP TIME[ms]                    | 20max (Minimum input, lo=100%)   |               |             |               |               |             |               |               |             |               |               |          |        |
|                           | OUTPUT VOLTAGE ADJUSTMENT RANGE[V]   | Fixed  |               |             |               |               |             |               |               |             |               |               |          |        |
| OUTPUT VOLTAGE SETTING[V] | 4.85 - 5.25                          | 11.40 - 12.60  | 14.25 - 15.75 | 4.85 - 5.25 | 11.40 - 12.60 | 14.25 - 15.75 | 4.85 - 5.25 | 11.40 - 12.60 | 14.25 - 15.75 | 4.85 - 5.25 | 11.40 - 12.60 | 14.25 - 15.75 |          |        |
| PROTECTION CIRCUIT        | OVERCURRENT PROTECTION               | Works over 105% of rating and recovers automatically   |               |             |               |               |             |               |               |             |               |               |          |        |
| ISOLATION                 | INPUT-OUTPUT                         | AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)                             |               |             |               |               |             |               |               |             |               |               |          |        |
|                           | INPUT-CASE                           | AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)                             |               |             |               |               |             |               |               |             |               |               |          |        |
|                           | OUTPUT-CASE                          | AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±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                     | UL60950-1, C-UL, EN60950-1 Complies with IEC60950-1  |               |             |               |               |             |               |               |             |               |               |          |        |
| OTHERS                    | CASE SIZE/WEIGHT                     | 35.5 × 26 × 10mm (W × H × D) / 25g max   |               |             |               |               |             |               |               |             |               |               |          |        |
|                           | COOLING METHOD                       | Convection   |               |             |               |               |             |               |               |             |               |               |          |        |

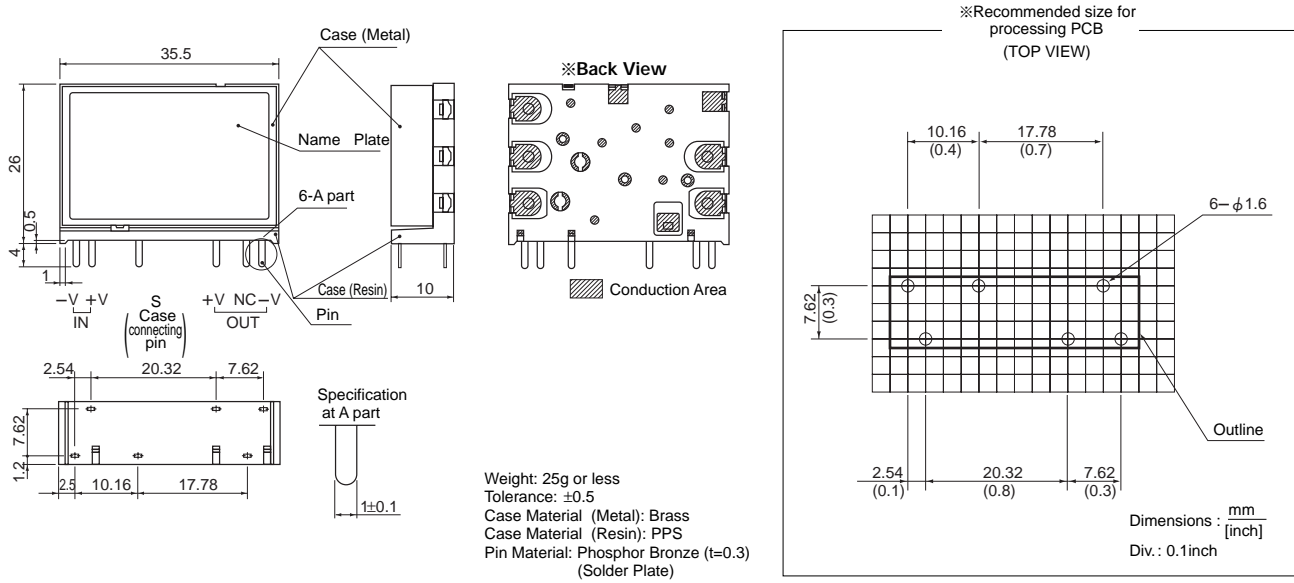
\*1 Rated input. 5V, 12V, 24V or 48V DC, lo=100%

\*2 Measured by 20MHz oscilloscope.

\*3 The drift is a change at 25°C of ambient temperature and 30 minutes - 8 hours after the input voltage applied at rated input/output.

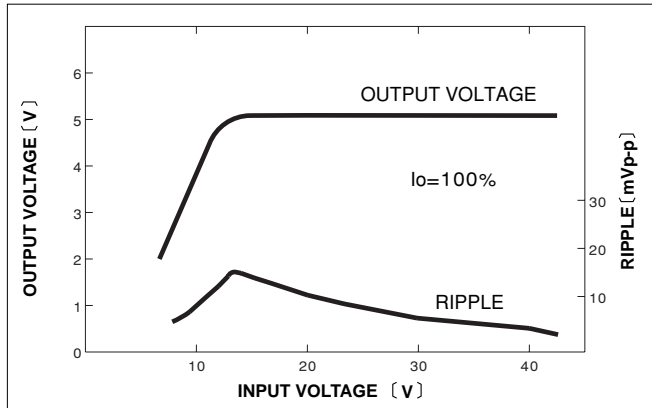
\* Series/Parallel operation with other model is not possible.

External view

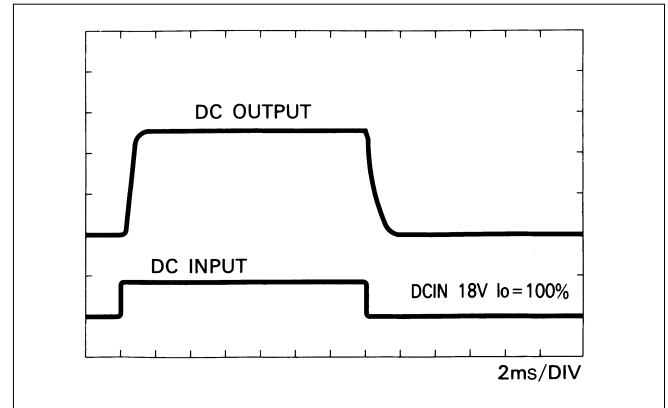


Performance data

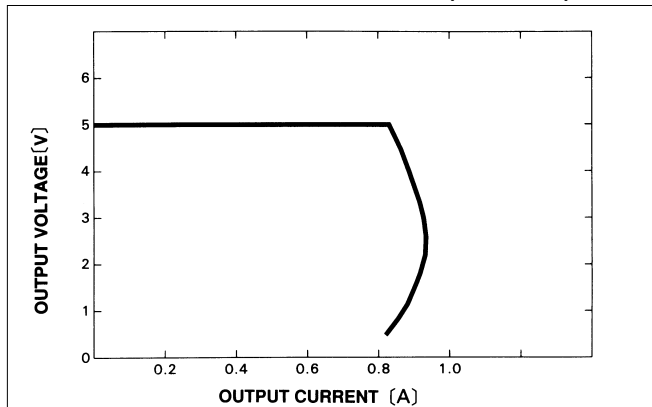
■STATIC CHARACTERISTICS (ZTS32405)



■RISE TIME & FALL TIME (ZTS32405)



■OVERCURRENT CHARACTERISTICS (ZTS32405)



ZU/ZT