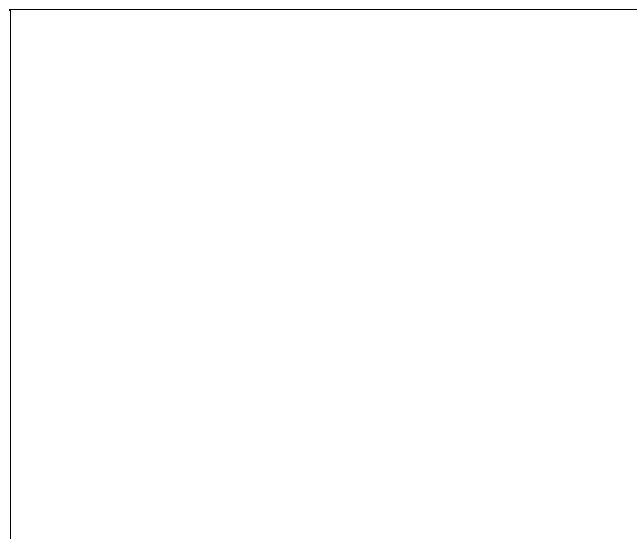


## features

- ☐ 600Vrms Working
- ☐ UL 94V-0 Package Material
- ☐ 2500/4000Vrms Isolation
- ☐ Inductance to 16mH
- ☐ Up to 480 V $\mu$ S E<sub>T</sub>
- ☐ PCB Mounting
- ☐ Custom Parts Available

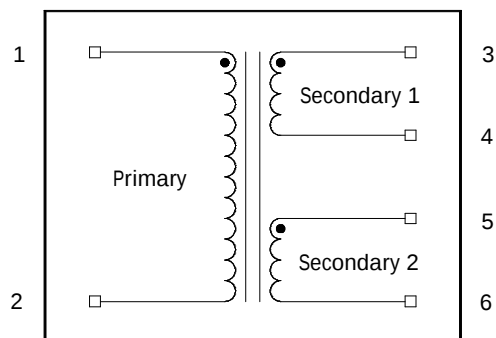
## description

The 772 series of pulse transformers are intended for medium power applications in switch mode power supplies and thyristor/triac firing (eg motor control applications). The standard turns ratios may be modified by connecting several windings in series.



## pin connections

8 Pin DIP (top view)



# 772 SERIES

## Pulse Transformers

### absolute maximum ratings over operating free air temperature range

Operating free air temperature range . . . . . 0°C to 70°C  
 Storage temperature range . . . . . –60°C to 125°C  
 Lead Temperature 1.5mm from case for 10 seconds . . . . . 300°C  
 Isolation voltage (flash tested for 1 second) . . . . . 2500Vrms

### electrical specifications over operating free air temperature range

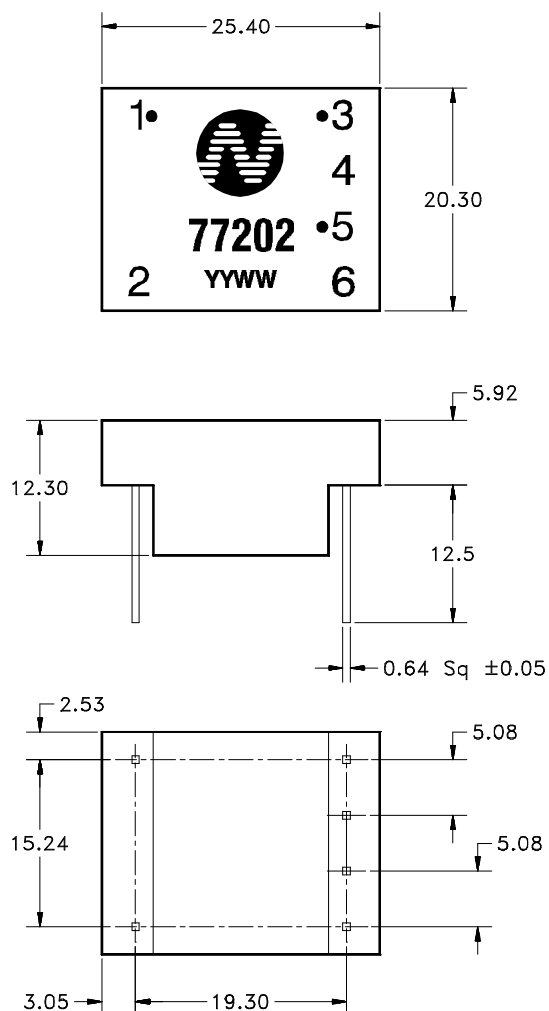
| Parameter                                   | Part Number |       |       |       |       |       |       |       |       | Units     |
|---------------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|
|                                             | 77201       | 77202 | 77203 | 77204 | 77205 | 77206 | 77207 | 77208 | 77209 |           |
| Turns Ratio $\pm 2\%$                       | 1:1         | 1:1:1 | 2:1:1 | 1:1   | 1:1:1 | 2:1:1 | 1:1   | 1:1:1 | 2:1:1 |           |
| Primary Inductance (min.)                   | 1.00        | 1.00  | 1.00  | 4.00  | 4.00  | 4.00  | 16.3  | 16.3  | 16.3  | mH        |
| Primary $E_T$ Constant                      | 120         | 120   | 120   | 240   | 240   | 240   | 482   | 482   | 482   | V $\mu$ s |
| Leakage Inductance (max.)                   | 2.0         | 3.0   | 3.5   | 5.0   | 11    | 11    | 18    | 40    | 40    | $\mu$ H   |
| Interwinding Capacitance (max.)             | 50          | 40    | 30    | 55    | 35    | 35    | 65    | 40    | 40    | pF        |
| DC Resistance (max.)<br>Primary Winding     | 0.25        | 0.25  | 0.24  | 0.86  | 0.90  | 0.84  | 3.50  | 3.60  | 3.50  | $\Omega$  |
| DC Resistance (max.)<br>Secondary 1 Winding | 0.23        | 0.22  | 0.12  | 0.83  | 0.76  | 0.38  | 3.40  | 3.10  | 1.60  |           |
| DC Resistance (max.)<br>Secondary 2 Winding | —           | 0.28  | 0.15  | —     | 1.10  | 0.50  | —     | 4.20  | 2.00  |           |
| Package Style                               | 1           |       |       |       |       |       |       |       |       |           |

Note : All data taken at  $T_A = 25^\circ\text{C}$ .

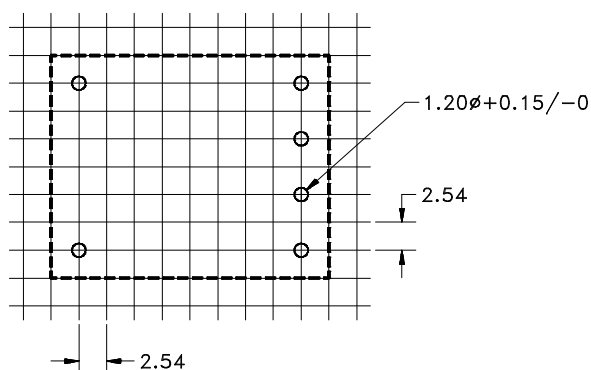
## outline dimensions

8 Pin DIP package style

1



## recommended footprint details



All dimensions in mm XX.X ±0.50, XX.XX ±0.25