

# 701 series

## base drive transformers

### PRODUCT DESCRIPTION

West Coast Magnetics' 701 series base drive transformers are designed to operate from 10 kHz to 500 kHz. These base drive transformers provide 3000 Vac of isolation and a winding configuration which has consistent low leakage inductance qualities. These Base Drive Transformers are available in through hole as well as surface mount packaging with tape and reel.

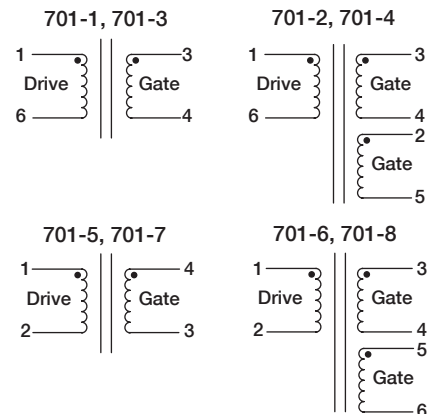
### FEATURES & BENEFITS

SMD tape and reel – 10 kHz to 500 kHz operating range – Low leakage inductance – 3000 Vac interwinding isolation

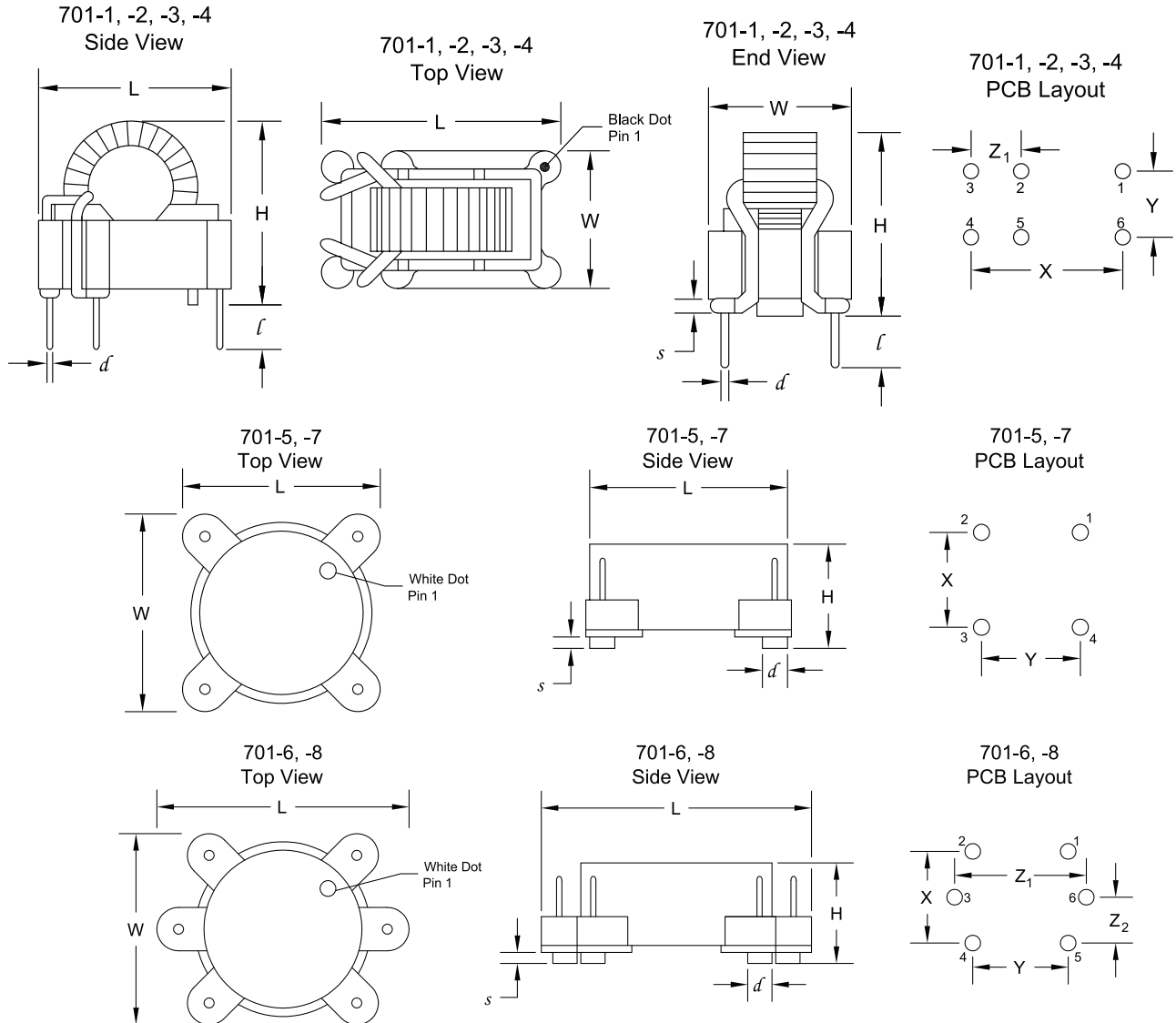
| Product Code | Turns Ratio | Maximum ET<br>(Volt- $\mu$ Sec) <sup>A</sup> | Minimum Drive Inductance<br>( $\mu$ H) | DCR Drive<br>(m $\Omega$ )<br>nom | DCR Gate<br>(m $\Omega$ )<br>nom | Gate-Drive Hypot Vac |
|--------------|-------------|----------------------------------------------|----------------------------------------|-----------------------------------|----------------------------------|----------------------|
| 701-1        | 1:1         | 170                                          | 735                                    | 180                               | 50                               | 3000                 |
| 701-2        | 1:1:1       | 170                                          | 735                                    | 180                               | 100                              | 3000                 |
| 701-3        | 1:1:5       | 126                                          | 400                                    | 55                                | 80                               | 3000                 |
| 701-4        | 1:1.5:1.5   | 126                                          | 400                                    | 55                                | 160                              | 3000                 |
| 701-5        | 1:1         | 118                                          | 590                                    | 310                               | 75                               | 3000                 |
| 701-6        | 1:1:1       | 118                                          | 590                                    | 310                               | 150                              | 3000                 |
| 701-7        | 1:1.5       | 118                                          | 590                                    | 300                               | 210                              | 3000                 |
| 701-8        | 1:1.5:1.5   | 118                                          | 590                                    | 300                               | 420                              | 3000                 |

Note A: Based on 50% bipolar square wave, 2500 gauss maximum, Drive Side.

### 701 Series Schematics



Dimensions:  $\frac{\text{inches}}{\text{mm}}$



| Product Code | L     | W     | H     | s     | l     | d      | X     | Y     | Z <sub>1</sub> | Z <sub>2</sub> |
|--------------|-------|-------|-------|-------|-------|--------|-------|-------|----------------|----------------|
| 701-1        |       |       |       |       |       |        |       |       |                |                |
| 701-2        | 0.800 | 0.450 | 0.800 | 0.080 | 0.175 | 0.025* | 0.700 | 0.350 | 0.200          | NA             |
| 701-3        | 20.3  | 11.4  | 20.3  | 2.0   | 4.4   | 0.6    | 17.8  | 8.9   | 5.1            |                |
| 701-4        |       |       |       |       |       |        |       |       |                |                |
| 701-5        | 0.650 | 0.650 | 0.325 | 0.030 | NA    | 0.070  | 0.495 | 0.495 | NA             | NA             |
| 701-7        | 16.5  | 16.5  | 8.3   | 0.8   |       | 1.8    | 12.6  | 12.6  |                |                |
| 701-6        | 0.830 | 0.650 | 0.325 | 0.030 | NA    | 0.070  | 0.495 | 0.495 | 0.700          | 0.248          |
| 701-8        | 21.1  | 16.5  | 8.3   | 0.8   |       | 1.8    | 12.6  | 12.6  | 17.8           | 6.3            |

\* square pin

Note: All materials of construction minimum Class B 130° C rated.