

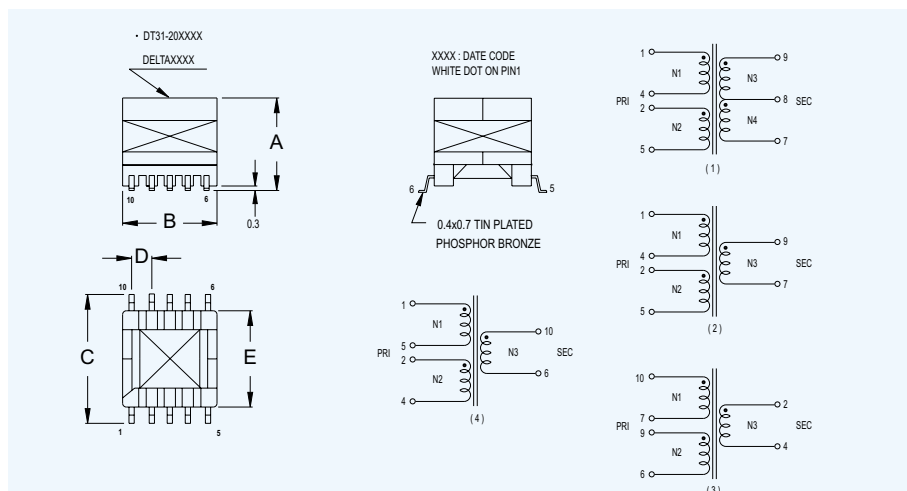


# Telecommunication

## HDSL Transformer

# Transformers

DT31-2010AS  
DT31-2010BS  
DT31-2016AS  
DT31-2005AS



DIMENSIONS IN mm

| A         | B         | C          | D         | E         | F | G |
|-----------|-----------|------------|-----------|-----------|---|---|
| 12.7 MAX. | 14.0 MAX. | 17.10 ±0.2 | 2.54 ±0.2 | 14.0 MAX. |   |   |

### ELECTRICAL CHARACTERISTICS

|           | DT31-2010AS                                            | DT31-2010BS                                             | DT31-2016AS                                              | DT31-2005AS                                            |
|-----------|--------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------|
| T.R       | (PRI:SEC): 2:1 ± 1%<br>@10KHz 0.1V                     | (PRI:SEC): 2:1 ± 1%<br>@10KHz 0.1V                      | (PRI:SEC): 1:1 ± 1%<br>@10KHz 0.1V                       | (PRI:SEC): 2:1 ± 1%<br>@10KHz 0.1V                     |
| L         | PRI: 3.0mH ± 6%<br>@10KHz 0.1V, I <sub>dc</sub> =160mA | PRI: 3.0mH ± 10%<br>@10KHz 0.1V, I <sub>dc</sub> =160mA | PRI: 3.0mH ± 5%<br>@10KHz 0.1V                           | PRI: 3.0mH ± 6%<br>@10KHz 0.1V, I <sub>dc</sub> =100mA |
| L.K       | PRI: 11uH Max.<br>@100KHz 0.1V                         | PRI: 11uH Max.<br>@100KHz 0.1V                          | PRI: 20uH Max.<br>@100KHz 0.1V                           | PRI: 11uH Max.<br>@100KHz 0.1V                         |
| D.C.R     | PRI: 2.5 Ω Max.<br>SEC: 1.0 Ω Max.                     | PRI: 2.5 Ω Max.<br>SEC: 1.0 Ω Max.                      | N1: 0.95 Ω ± 10%<br>N2: 0.95 Ω ± 10%<br>N3: 1.87 Ω ± 10% | PRI: 2.5 Ω Max.<br>SEC: 1.0 Ω Max.                     |
| HI-POT    | 1500 VAC 1 SEC                                         | 1500 VAC 1 SEC                                          | 1500 VAC 1 SEC                                           | 2050 VAC 1 SEC                                         |
| C         | -----                                                  | -----                                                   | -----                                                    | -----                                                  |
| I.L       | 0.4 dB Max. @200KHz                                    | 0.4 dB Max. @200KHz                                     | -----                                                    | 0.4 dB Max. @200KHz                                    |
| L.B       | 53dB Min.<br>@40KHz~200KHz                             | 53dB Min.<br>@40KHz~200KHz                              | 53dB Min.<br>@40KHz~300KHz                               | 53dB Min.<br>@40KHz~200KHz                             |
| FR        | ± 0.1 dB<br>@40KHz~200KHz                              | ± 0.1 dB<br>@40KHz~200KHz                               | -----                                                    | ± 0.1 dB<br>@40KHz~200KHz                              |
| R.L       | 20 dB Min.<br>@40KHz~200KHz                            | 20 dB Min.<br>@40KHz~200KHz                             | -----                                                    | 20 dB Min.<br>@40KHz~200KHz                            |
| T.H.D     | -70 dB Max.<br>@40KHz 14dBm                            | -70 dB Max.<br>@40KHz 14dBm                             | -70 dB Max.<br>@100KHz 5Vp-p                             | -70 dB Max.<br>@40KHz 14dBm                            |
| SCHEMATIC | 3                                                      | 4                                                       | 1                                                        | 2                                                      |

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