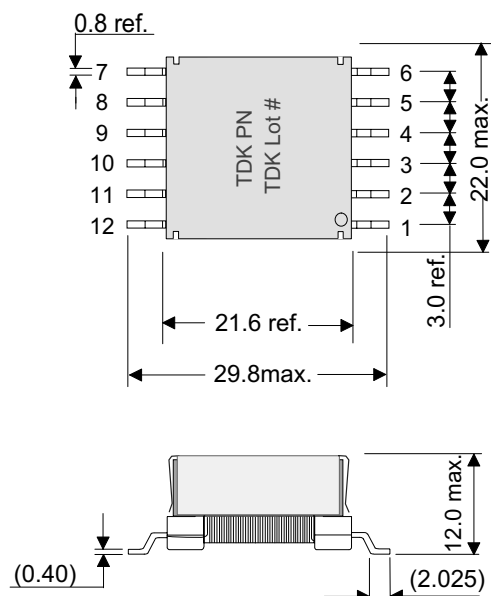
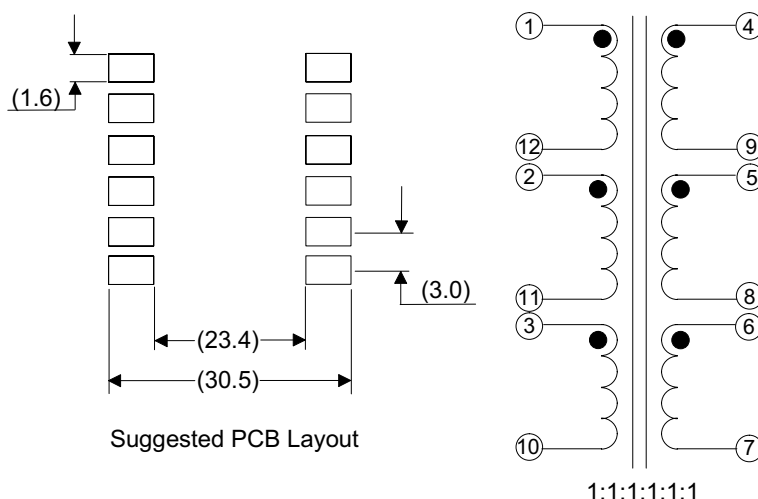


# TDK SMD MULTI WINDING TRANSFORMER PCA20EFD SERIES

## Mechanical



## Schematic



| TDK Part Number  | Inductance<br>$\mu\text{H}$ |                  | *1 Idc 1<br>Amps<br>(Typ.) |           | *2 Idc 2<br>Amps<br>(Typ.) |           | DCR<br>m Ohms<br>( $\pm 15\%$ ) |           | ET Constant<br>$\mu\text{V-S}$<br>(Max.) |           | Leakage<br>Inductance<br>nH<br>(Typ.) |
|------------------|-----------------------------|------------------|----------------------------|-----------|----------------------------|-----------|---------------------------------|-----------|------------------------------------------|-----------|---------------------------------------|
|                  | *3 Parallel                 | *4 Series        | *3 Parallel                | *4 Series | *3 Parallel                | *4 Series | *3 Parallel                     | *4 Series | *3 Parallel                              | *4 Series | Single                                |
| PCA20EFD-U01S003 | 197.3 $\pm 30\%$            | 7.1mH $\pm 30\%$ | 0.2                        | 0.03      | 9.6                        | 1.6       | 7.9                             | 285       | 102                                      | 610       | 160                                   |
| PCA20EFD-U02S002 | 87.7 $\pm 30\%$             | 3.2mH $\pm 30\%$ | 0.3                        | 0.06      | 12.0                       | 2.0       | 5.2                             | 188       | 68                                       | 407       | 109                                   |
| PCA20EFD-U03S003 | 22.3 $\pm 20\%$             | 804 $\pm 20\%$   | 6.7                        | 1.11      | 9.6                        | 1.6       | 7.9                             | 285       | 102                                      | 610       | 160                                   |
| PCA20EFD-U04S002 | 9.9 $\pm 20\%$              | 357 $\pm 20\%$   | 8.6                        | 1.43      | 12.0                       | 2.0       | 5.2                             | 188       | 68                                       | 407       | 109                                   |
| PCA20EFD-U05S003 | 12.0 $\pm 20\%$             | 430 $\pm 20\%$   | 10.9                       | 1.82      | 9.6                        | 1.6       | 7.9                             | 285       | 102                                      | 610       | 160                                   |
| PCA20EFD-U06S002 | 5.3 $\pm 20\%$              | 191 $\pm 20\%$   | 16.1                       | 2.68      | 12.0                       | 2.0       | 5.2                             | 188       | 68                                       | 407       | 109                                   |
| PCA20EFD-U07S003 | 9.6 $\pm 20\%$              | 347 $\pm 20\%$   | 13.3                       | 2.21      | 9.6                        | 1.6       | 7.9                             | 285       | 102                                      | 610       | 160                                   |
| PCA20EFD-U08S002 | 4.3 $\pm 20\%$              | 154 $\pm 20\%$   | 20.5                       | 3.42      | 12.0                       | 2.0       | 5.2                             | 188       | 68                                       | 407       | 109                                   |
| PCA20EFD-U09S003 | 7.6 $\pm 20\%$              | 275 $\pm 20\%$   | 17.2                       | 2.86      | 9.6                        | 1.6       | 7.9                             | 285       | 102                                      | 610       | 160                                   |
| PCA20EFD-U10S002 | 3.4 $\pm 20\%$              | 122 $\pm 20\%$   | 26.2                       | 4.36      | 12.0                       | 2.0       | 5.2                             | 188       | 68                                       | 407       | 109                                   |

## Electrical Specifications @ 23 degrees C

\*1 Idc 1 = Depend on inductance saturation . (-30% reduction from nominal L value)

\*2 Idc 2 = depend on self temperature rise. (40degC typ at specified Idc2)

\*3 Parallel 6 coil connected in parallel

\*4 Series 6 coil connected in series.