



## **Inductors**

Transformers for information technology  
Transformers reference list

Date:                      October 2008

## Transformers for information technology

### xDSL/IC interface transformers reference list

#### ADSL / ADSL 2+

| Manu-<br>facturer/<br>IC name | IC number                                            | CO<br>or<br>CPE | An-<br>nex    | EPCOS<br>ordering code | Core<br>shape<br><u>SMD</u> | Induc-<br>tance<br>mH | Turns ratio       |
|-------------------------------|------------------------------------------------------|-----------------|---------------|------------------------|-----------------------------|-----------------------|-------------------|
| Broadcom                      |                                                      |                 |               |                        |                             |                       |                   |
| Bladerunner                   | BCM<br>6410, 6420,<br>6411, 6421,<br>6511            | CO              | A             | B78417A1761A003        | EP7                         | 0.43                  | 2:2:1:1           |
|                               |                                                      |                 | B             | B78417A1762A003        | EP7                         | 0.10                  | 2:2:1:1           |
|                               |                                                      |                 | A             | B78417A1763A003        | EP7                         | 0.42                  | 1.41:1.41:1:1     |
|                               |                                                      |                 | B             | B78417A1764A003        | EP7                         | 0.10                  | 1.41:1.41:1:1     |
|                               |                                                      |                 | A             | B78416A1829A003        | EP5XL                       | 0.42                  | 1.41:1.41:1:1     |
|                               |                                                      |                 | B             | B78416A1850A003        | EP5XL                       | 0.10                  | 1.41:1.41:1:1     |
|                               |                                                      |                 | A             | B78417A1934A003        | EP7                         | 0.42                  | 1.41:1.41:1:1     |
|                               |                                                      |                 | A             | B78417A1988A003        | EP7                         | 0.42                  | 1:1:1:1           |
|                               |                                                      |                 | B             | B78417A1993A003        | EP7                         | 0.10                  | 1:1:1:1           |
| Conexant                      |                                                      |                 |               |                        |                             |                       |                   |
| Viking/Atlas                  | G7000 DTM                                            | CPE             | A             | B78421A6603A003        | EP13                        | 0.44                  | 1:1.6:1.6:1       |
| Octane G24                    |                                                      | CO              | A,<br>C, H    | B78417A1939A003        | EPX7/9                      | 1.0                   | 0.9:0.9:1:1       |
|                               |                                                      |                 |               | B78417A2039A003        | EP 7                        | 1.0                   | 0.9:0.9:1:1       |
|                               |                                                      |                 |               | B78416A2005A003        | EPX5                        | 1.075                 | 0.9:0.9:1:1       |
| Infineon                      |                                                      |                 |               |                        |                             |                       |                   |
| Amazon                        | PSB 50501/<br>505/510                                | CPE             | A             | B78421A1928A003        | EP13                        | 1.4                   | 1:1.2:2.4:15:4.15 |
|                               |                                                      |                 | B             | B78421A1905A003        | EP13                        | 0.2                   | 1:3.8/1:2         |
| Danube                        |                                                      | CPE             | A             | B78421A1946A003        | EP13                        | 1.4                   | 1:1.42/1:1        |
|                               |                                                      |                 | B             | B78421A1947A003        | EP13                        | 0.2                   | 1:1.38/1:1        |
| GEMINAX                       | PEF<br>55008,<br>55208,<br>55016,<br>55218,<br>55602 | —               | —             | B78421A1639A003        | EP13                        | 20                    | 1:1               |
|                               |                                                      | —               | —             | B78417A1706A003        | EP7                         | 6.8                   | 1:1               |
|                               |                                                      | —               | —             | B78417A1744A003        | EP7                         | 2.8                   | 1:1               |
|                               |                                                      | —               | —             | B78417A1822A003        | EP7                         | 0.44                  | 1:1               |
|                               |                                                      | —               | —             | B78417A1838A003        | EP7                         | 6.8                   | 1:1               |
|                               |                                                      | CO              | A, I,<br>J, N | B78417A1698A003        | EP7                         | 1.44                  | 1.31:1.31:1:1     |
|                               |                                                      | CO              | A             | B78417A1847A003        | EP7                         | 0.34                  | 1.33:1.33:1:1     |
|                               |                                                      | CO              | B             | B78417A1851A003        | EP7                         | 0.082                 | 1.33:1.33:1:1     |
|                               |                                                      | CO              | A             | B78417A2036A003        | EP7                         | 1.44                  | 1.31:1.31:1:1     |
|                               |                                                      | CO              | A             | B78416A2037A003        | EPX5                        | 1.44                  | 1.31:1.31:1:1     |

## Transformers for information technology

### xDSL/IC interface transformers reference list

#### ADSL / ADSL 2+

| Manu-<br>facturer/<br>IC name | IC number                                            | CO<br>or<br>CPE | An-<br>nex    | EPCOS<br>ordering code | Core<br>shape<br><u>SMD</u> | Induc-<br>tance<br>mH | Turns ratio   |
|-------------------------------|------------------------------------------------------|-----------------|---------------|------------------------|-----------------------------|-----------------------|---------------|
| GEMINAX                       | PEF<br>55008,<br>55208,<br>55016,<br>55218,<br>55602 | CO              | A             | B78417A1911A003        | EP7                         | 1.4                   | 2.6:2.6:1:1   |
|                               |                                                      | —               | —             | B78551A1908A003        | TP-<br>Module               | 6.8                   | 1:1           |
|                               |                                                      | CO              | A, I,<br>J, N | B78416A1991A003        | EPX5                        | 1.44                  | 1.31:1.31:1:1 |
|                               |                                                      | CO              | B             | B78416A1992A003        | EPX5                        | 0.082                 | 1.33:1.33:1:1 |
| Texas Instruments             |                                                      |                 |               |                        |                             |                       |               |
| AC6                           | AC6                                                  | CO              | A             | B78417A1765A003        | EP7                         | 0.4                   | 1.93:1.93:1:1 |

#### SHDSL

| Manu-<br>facturer/<br>IC name         | IC number                                                                               | CO<br>or<br>CPE | EPCOS<br>ordering code | Core<br>shape/<br>Mounting | Induc-<br>tance<br>mH | Turns ratio       |
|---------------------------------------|-----------------------------------------------------------------------------------------|-----------------|------------------------|----------------------------|-----------------------|-------------------|
| Infineon                              |                                                                                         |                 |                        |                            |                       |                   |
| SDFE-x<br>and So-<br>crates<br>family | PEF 21624,<br>22624, 24624,<br>21627, 22627,<br>24627, 21628,<br>22628, 24628,<br>24625 | CO/CPE          | B78418A1960A003        | EPX9<br><u>SMD</u>         | 3.0                   | 2.25:2.25:0.5:0.5 |
|                                       |                                                                                         | CO/CPE          | B78421A1852A003        | EP13<br><u>SMD</u>         | 3.0                   | 2.25:2.25:1       |
|                                       |                                                                                         |                 | B78421P1853A005        | EP13<br>PTH                | 3.0                   | 2.25:2.25:1       |
|                                       |                                                                                         |                 | B78418A1974A003        | EPX9<br><u>SMD</u>         | 3.0                   | 2.25:2.25:1       |
| Socrates                              | PEF 22622,<br>22623, 24622                                                              | CO/CPE          | B78421A1801A003        | EP13<br><u>SMD</u>         | 3.0                   | 1.62:1.62:1:1     |

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#### VDSL

| Manu-<br>facturer/<br>IC name | IC number                                                      | CO<br>or<br>CPE | An-<br>nex | EPCOS<br>ordering code | Core<br>shape<br><u>SMD</u> | Induc-<br>tance<br>mH | Turns ratio |
|-------------------------------|----------------------------------------------------------------|-----------------|------------|------------------------|-----------------------------|-----------------------|-------------|
| Broadcom                      |                                                                |                 |            |                        |                             |                       |             |
| Bladerunner                   | BCM<br>6505, 6506,<br>6510, 6526,<br>6511, 6512,<br>6516, 6526 | CO              | A          | B78417A1907A003        | EP7                         | 0.43                  | 2:2:1:1     |
|                               |                                                                |                 | B          | B78417A1959A003        | EP7                         | 0.10                  | 2:2:1:1     |
|                               |                                                                |                 | A          | B78417A2035A003        | EP7                         | 0.42                  | 2.5:2.5:1:1 |
|                               |                                                                |                 | A          | B78416A2044A003        | EPX5                        | 0.42                  | 2.5:2.5:1:1 |
|                               |                                                                |                 | B          | B78416A2045A003        | EPX5                        | 0.10                  | 2.5:2.5:1:1 |
| Conexant                      |                                                                |                 |            |                        |                             |                       |             |
| Accelity                      |                                                                | CO              | A          | B78417A7325A003        | EP7                         | 0.8                   | 1:2         |
| Ikanos                        |                                                                |                 |            |                        |                             |                       |             |
| CO2                           | CO2                                                            | CO              | A          | B78417A1860A003        | EP7                         | 0.22                  | 3:1         |
| Infineon                      |                                                                |                 |            |                        |                             |                       |             |
| VINAX                         | PEF<br>88102,<br>88208,<br>88204                               | CO              | A, F       | B78417A1973A003        | EP7                         | 0.47                  | 4:3         |
|                               |                                                                |                 | A, F       | B78551A2009A003        | TC-<br>Module               | 0.47                  | 4:3         |
|                               |                                                                |                 | F          | B78416A1944A003        | EP5XL                       | 0.082                 | 4:3         |
|                               |                                                                |                 | B          | B78417A1922A003        | EP7                         | 0.27                  | 4:3         |
|                               |                                                                |                 | B          | B78417A1982A003        | EP7                         | 0.27                  | 4:3         |
|                               |                                                                | CPE             | A, F       | B78421A2008A003        | EP13                        | 0.47                  | 2:1         |
|                               |                                                                | CO              | A, F       | B78417A2020A003        | EP7                         | 0.47                  | 1:1         |
|                               |                                                                |                 | B          | B78417A2021A003        | EP7                         | 0.27                  | 1:1         |
|                               |                                                                |                 | B          | B78416A2049A003        | EPX5                        | 0.27                  | 4:3         |
|                               |                                                                |                 | A, F       | B78416A2050A003        | EPX5                        | 0.47                  | 4:3         |
|                               | PEB 83000<br>PSB 80170                                         | CPE             | B          | B78417A1937A003        | EP7                         | 0.27                  | 4:3         |
|                               |                                                                |                 | A, F       | B78417A1967A003        | EP7                         | 0.47                  | 4:3         |

## Transformers for information technology

### ISDN/IC interface transformers reference list

#### U<sub>K0</sub> / 2B1Q

| Manufacturer/<br>IC number                                    | EPCOS<br>ordering code | Core shape/<br>Mounting | Inductance<br>mH | Turns ratio |
|---------------------------------------------------------------|------------------------|-------------------------|------------------|-------------|
| <b>AMD</b>                                                    |                        |                         |                  |             |
| AM2091                                                        | B78386P1114A005        | RM6/PTH                 | 14.5             | 0.8:0.8:1   |
|                                                               | B78386P1116A005        | RM6/PTH                 | 13.3             | 1.6:1.6:1:1 |
|                                                               | B78388P1254A005        | RM8/PTH                 | 14.5             | 0.8:0.8:1   |
| <b>Infineon</b>                                               |                        |                         |                  |             |
| PSB 24902, 24911,<br>8091, 8191                               | B78386P1114A005        | RM6/PTH                 | 14.5             | 0.8:0.8:1   |
|                                                               | B78386P1116A005        | RM6/PTH                 | 13.3             | 1.6:1.6:1:1 |
|                                                               | B78388P1254A005        | RM8/PTH                 | 14.5             | 0.8:0.8:1   |
| Q-Smint<br>PEF 80912, 80913,<br>81912, 81913,<br>82912, 82913 | B78386P1580A005        | RM6/PTH                 | 14.44            | 1:1:1       |
|                                                               | B78421P1582A005        | EP13/PTH                | 14.47            | 1:1:1       |
|                                                               | B78421A1720A003        | EP13/ <b>SMD</b>        | 14.47            | 1:1:1       |

#### U<sub>K0</sub> / 4B3T

| Manufacturer/<br>IC number                                    | EPCOS<br>ordering code | Core shape/<br>Mounting | Inductance<br>mH | Turns ratio   |
|---------------------------------------------------------------|------------------------|-------------------------|------------------|---------------|
| <b>AMD</b>                                                    |                        |                         |                  |               |
| AM 20902                                                      | B78386P1115A005        | RM6/PTH                 | 5.5              | 0.66:0.66:1   |
|                                                               | B78386P1127A005        | RM6/PTH                 | 7.7              | 1.32:1.32:1:1 |
| <b>Infineon</b>                                               |                        |                         |                  |               |
| PSB 8090, 20902,<br>24901, 24902                              | B78386P1115A005        | RM6/PTH                 | 5.5              | 0.66:0.66:1   |
|                                                               | B78386P1127A005        | RM6/PTH                 | 7.7              | 1.32:1.32:1:1 |
| T-Smint<br>PEF 80902, 80903,<br>81902, 81903,<br>82902, 82903 | B78386P1648A005        | RM6/PTH                 | 7.61             | 0.8:0.8:1     |
|                                                               | B78421P1649A005        | EP13/PTH                | 7.57             | 0.8:0.8:1     |
|                                                               | B78421A1721A003        | EP13/ <b>SMD</b>        | 7.57             | 0.8:0.8:1     |
| <b>Mietec</b>                                                 |                        |                         |                  |               |
| MTC2071                                                       | B78386P1115A005        | RM6/PTH                 | 5.5              | 0.66:0.66:1   |
| MTC2072                                                       | B78386P1127A005        | RM6/PTH                 | 7.7              | 1.32:1.32:1:1 |

## Transformers for information technology

### ISDN/IC interface transformers reference list

S<sub>0</sub>

| Manufacturer/<br>IC number                                               | EPCOS<br>ordering code | Core shape/<br>Mounting | Inductance<br>mH | Turns ratio |
|--------------------------------------------------------------------------|------------------------|-------------------------|------------------|-------------|
| AMD                                                                      |                        |                         |                  |             |
| AM79C30A, AM79C32A                                                       | B78510P1365A005        | R10/PTH                 | > 22             | 1:1:2:2     |
|                                                                          | B78510P6622A005        | R10 amorph/<br>PTH      | > 30             | 2:2:1:1     |
| Infineon                                                                 |                        |                         |                  |             |
| PEB/PSB 2080, 2081,<br>2084, 2085, 2086, 2115,<br>2186, 8090, 8091, 8191 | B78510P1365A005        | R10/PTH                 | > 22             | 1:1:2:2     |
|                                                                          | B78510P6622A005        | R10 amorph/<br>PTH      | > 30             | 2:2:1:1     |
| PEB/PSB 21381,<br>21382, 21383, 21384                                    | B78510A1452A003        | R10/ <u>SMD</u>         | > 22             | 1:1:1:1     |
| Mietec                                                                   |                        |                         |                  |             |
| MTC 2072, 20276                                                          | B78510P1365A005        | R10/PTH                 | > 22             | 1:1:2:2     |
|                                                                          | B78510P6622A005        | R10 amorph/<br>PTH      | > 30             | 2:2:1:1     |