

TELECOMMUNICATIONS PRODUCTS



Pulse is a leading provider of magnetics for telecom infrastructure equipment, customer premises equipment, audio interface applications, and emerging applications such as VoIP. Our broad portfolio of transformers and integrated transformer modules support T1/E1/ISDN-PRI, T3/E3/STS-1, ISDN-S, ISDN-U, Digital Audio, and DDS.

Package options include surface mount, through hole, single, dual, quad and octal covering standard and extended temperature ranges. Many parts meet ANSI, ITU and ETSI requirements, and many are recognized by UL, TUV, Austel and/or CSA. Numerous models incorporate our patented "Interlock Base" construction, ensuring high reliability.

Please see our "Telecom IC Cross Reference" section that begins on page 18.



TRANSFORMERS

T1/E1/CEPT/ISDN-Pri—SINGLE, DUAL

| Part Number | RoHS-6 Part Number | Turns Ratio | Package L/W/H (in.)* | Data Sheet | Part Number | RoHS-6 Part Number | Turns Ratio | Package L/W/H (in.)* | Data Sheet |
|--|--------------------|---------------|----------------------|------------|--|--------------------|-------------------------|----------------------|------------|
| SINGLE TRANSFORMERS | | | | | 3.0 kV – Reinforced Insulation per IEC 950, THT (continued) | | | | |
| 1.5 kV Isolation, Standard Temperature Range, THT | | | | | | | | | |
| PE-64931 | PE-64931NL | 1:1:1 (1:2CS) | .350 / .500 / .250 | T608 | PE-65832 | PE-65832NL | 1:1.36CT | .558 / .558 / .400 | T608 |
| PE-64933 | PE-64933NL | 1CT:3CT | .350 / .500 / .250 | T608 | PE-65833 | PE-65833NL | 1CT:2CT | .558 / .558 / .400 | T608 |
| PE-64934 | PE-64934NL | 1:1 | .350 / .500 / .250 | T608 | PE-65834 | PE-65834NL | 1:1 | .558 / .558 / .400 | T608 |
| PE-64936 | PE-64936NL | 1CT:1 | .350 / .500 / .250 | T608 | PE-65835 | PE-65835NL | 1CT:2CT | .558 / .558 / .400 | T608 |
| PE-64937 | PE-64937NL | 1:1.36 | .350 / .500 / .250 | T608 | PE-65836 | PE-65836NL | 1CT:3CT:1 | .558 / .558 / .400 | T608 |
| PE-64940 | PE-64940NL | 1:1:1.58 | .350 / .500 / .250 | T608 | PE-65837 | PE-65837NL | 1:1.08:1.36 | .558 / .558 / .400 | T608 |
| PE-64941 | PE-64941NL | 1:1:2 | .350 / .500 / .250 | T608 | PE-65838 | PE-65838NL | 1:1.14 | .558 / .558 / .400 | T608 |
| PE-64942 | PE-64942NL | 1:1:2.62 | .350 / .500 / .250 | T608 | PE-65839 | PE-65839NL | 1:1:1.266 | .558 / .558 / .400 | T608 |
| PE-64943 | PE-64943NL | 1CT:2CT | .350 / .500 / .250 | T608 | PE-68646 | PE-68646NL | 1:1.58:2 | .558 / .558 / .400 | T608 |
| PE-65351 | PE-65351NL | 1:2CT | .350 / .500 / .250 | T608 | PE-68788 | PE-68788NL | 1CT:1.41CT | .558 / .558 / .400 | T608 |
| PE-65363 | PE-65363NL | 1:4CT | .350 / .500 / .250 | T608 | DUAL TRANSFORMERS | | | | |
| PE-65379 | PE-65379NL | 1:1.14CT | .350 / .500 / .250 | T608 | 1.5 kV Isolation, Extended Temperature Range, THT | | | | |
| PE-65388 | PE-65388NL | 1:1.15CT | .350 / .500 / .250 | T608 | PE-68618 | PE-686 18NL | 1CT:1CT & 1CT:3CT:0.25 | 1.000 / .390 / .290 | T608 |
| PE-65389 | PE-65389NL | 1:1:1.266 | .350 / .500 / .250 | T608 | PE-64950 | PE-64950NL | 1CT:1CT & 1CT:3CT:1 | 1.000 / .390 / .290 | T608 |
| PE-65415 | PE-65415NL | 1CT:2CT | .350 / .500 / .250 | T608 | PE-65567 | PE-65567NL | 1:1.15CT & 1:2CT | .800 / .390 / .290 | T608 |
| PE-65558 | PE-65558NL | 1:2.3CT | .350 / .500 / .250 | T608 | PE-65568 | PE-65568NL | 1:1:1.266 & 1:2CT | .800 / .390 / .290 | T608 |
| PE-65586 | PE-65586NL | 1:1.36CT | .350 / .500 / .250 | T608 | PE-65774 | PE-65774NL | 1CT:2CT & 1:1.36CT | .800 / .390 / .290 | T608 |
| PE-65755 | PE-65755NL | 1CT:1CT | .350 / .500 / .250 | T608 | 1.5 kV Isolation, Standard Temperature Range, THT | | | | |
| PE-68644 | PE-68644NL | 1CT:1 | .350 / .500 / .250 | T608 | PE-64951 | PE-64951NL | 1:2CT & 1:2CT | .800 / .390 / .250 | T608 |
| PE-68645 | PE-68645NL | 1:1.36CT | .350 / .500 / .250 | T608 | PE-64952 | PE-64952NL | 1:2CT & 1:1.36CT | .800 / .390 / .250 | T608 |
| T1054 | T1054NL | 1:1.5CT | .350 / .500 / .250 | T608 | PE-64953 | PE-64953NL | 1:2CT & 1:2CT | .800 / .390 / .250 | T608 |
| T1249 | T1249NL | 1:1.26CT | .350 / .500 / .250 | T608 | PE-64954 | PE-64954NL | 1CT:2CT & 1:1 | .800 / .390 / .250 | T608 |
| 1.5 kV Isolation, Extended Temperature Range, THT | | | | | PE-64955 | PE-64955NL | 1.58:2CT & 1.58:1 | .800 / .390 / .250 | T608 |
| PE-68664 | PE-68664NL | 1:1/1.26 | .350 / .500 / .250 | T608 | PE-64956 | PE-64956NL | 2:2CT & 2:1 | .800 / .390 / .250 | T608 |
| PE-65340 | PE-65340NL | 1:1.36 | .350 / .500 / .250 | T608 | PE-64957 | PE-64957NL | 2.62:2CT & 2.62:1 | .800 / .390 / .250 | T608 |
| PE-65770 | PE-65770NL | 1:1.15CT | .350 / .500 / .250 | T608 | PE-65565 | PE-65565NL | 1:1.15CT & 1:2CT | .800 / .390 / .290 | T608 |
| PE-65771 | PE-65771NL | 1CT:2CT | .350 / .500 / .250 | T608 | PE-65566 | PE-65566NL | 1:1:1.266 & 1:2CT | .800 / .390 / .290 | T608 |
| PE-65778 | PE-65778NL | 1CT:1CT | .350 / .500 / .250 | T608 | 1.5 kV Isolation, Standard Temperature Range, BH Package, SMT | | | | |
| PE-68600 | PE-68600NL | 1CT:3CT | .350 / .500 / .250 | T608 | T1136 | T1136NL | 1CT:1CT & 1CT:1.36CT | .505 / .375 / .245 | T608 |
| TX1252 | TX1252NL | 1CT:1 | .350 / .500 / .250 | T608 | T1022 | T1022NL | 1CT:1CT & 1CT:1.5CT | .505 / .375 / .245 | T608 |
| T1229 | T1229NL | 1:1.583CT | .350 / .500 / .250 | T659 | T1190 | T1190NL | 1CT:1.36CT & 1CT:1CT | .505 / .375 / .245 | T654 |
| 1.5 kV Isolation, Extended Temperature Range, SMT | | | | | PE-65861 | PE-65861NL | 1CT:2CT & 1CT:2CT | .505 / .375 / .245 | T608 |
| TX1281 | — | 1CT:1 | .220 / .305 / .200 | T669 | PE-65862 | PE-65862NL | 1CT:2CT & 1:1.36CT | .505 / .375 / .245 | T608 |
| TX1282 | — | 1.14CT:1 | .220 / .305 / .200 | T669 | PE-65865 | PE-65865NL | 1:1.15CT & 1CT:2CT | .505 / .375 / .245 | T608 |
| TX1283 | — | 1.35CT:1 | .220 / .305 / .200 | T669 | PE-65866 | PE-65866NL | 1:1/1.26 & 1CT:2CT | .505 / .375 / .245 | T608 |
| TX1284 | — | 1.26CT:1 | .220 / .305 / .200 | T669 | PE-65870 | PE-65870NL | 1CT:1.15CT & 1CT:1.15CT | .505 / .375 / .245 | T608 |
| TX1491 | — | 1CT:1 | .220 / .305 / .200 | T669 | PE-68678 | PE-68678NL | 1CT:1CT & 1CT:2CT | .505 / .375 / .245 | T608 |
| TX1492 | — | 2CT:1 | .220 / .305 / .200 | T669 | PE-68786 | PE-68786NL | 1CT:1.41CT & 1CT:1.41CT | .505 / .375 / .245 | T608 |
| TX1314 | — | 1:1/1.26 | .300 / .390 / .250 | T678 | T1023 | T1023NL | 1CT:1.41CT & 1CT:1.41CT | .505 / .375 / .245 | T608 |
| TX1315 | — | 1CT:1CT | .300 / .390 / .250 | T678 | T1137 | T1137NL | 1CT:2.42CT & 1CT:2.42CT | .505 / .375 / .245 | T651 |
| TX1320 | — | 1CT:1.36CT | .300 / .390 / .250 | T678 | T1021 | T1021NL | 2CT:1/1.26 & 2CT:1/1.26 | .505 / .375 / .245 | T637 |
| 3.0 kV – Reinforced Insulation per IEC 950, THT | | | | | T1075 | T1075NL | 2CS:1.57/2 & 2CS:1.57/2 | .505 / .375 / .245 | T678 |
| PE-65830 | PE-65830NL | 1:1:1.58 | .558 / .558 / .400 | T608 | T1122 | T1122NL | 1CT:2CT & 1CT:2.3CT | .505 / .375 / .245 | T608 |
| PE-65831 | PE-65831NL | 1:1:2 | .558 / .558 / .400 | T608 | T1121 | T1121NL | 1CT:1.5CT & 1CT:1.5CT | .505 / .375 / .245 | T608 |
| | | | | | T1286 | T1286NL | 1CT:2.4CT & 1CT:2.4CT | .505 / .375 / .245 | T608 |

1. To make a 1CT:1 ratio from a 1CT:2CT ratio, use only one-half the 2CT winding.

*L/W/H is measured on surface mount parts tip to tip (height includes wash area).

SMT - Surface Mount Package THT - Through Hole Package

TELECOMMUNICATIONS PRODUCTS



TRANSFORMERS, TRANSFORMER/CHOKE INTERFACE MODULES

T1/E1/CEPT/ISDN-Pri—SINGLE, DUAL, Quad

| Part Number | RoHS-6 Part Number | Turns Ratio | Package L/W/H (in.)* | Data Sheet |
|--|--------------------|-------------------------|----------------------|------------|
| DUAL TRANSFORMERS (continued) | | | | |
| 1.5 kV Isolation, Extended Temperature Range, BH Package, SMT | | | | |
| T1090 | T1090NL | 1CT:2CT & 1CT:2CT | .505 / .375 / .245 | T608 |
| T1091 | T1091NL | 1CT:2CT & 1:1.36CT | .505 / .375 / .245 | T608 |
| T1076 | T1076NL | 1:1.15CT & 1CT:2CT | .505 / .375 / .245 | T608 |
| T1092 | T1092NL | 1:1/1.26 & 1CT:2CT | .505 / .375 / .245 | T608 |
| T1093 | T1093NL | 1CT:1.15CT & 1CT:1.15CT | .505 / .375 / .245 | T608 |
| T1077 | T1077NL | 1CT:1CT & 1CT:1.5CT | .505 / .375 / .245 | T608 |
| T1094 | T1094NL | 1CT:1CT & 1CT:2CT | .505 / .375 / .245 | T608 |
| T1144 | T1144NL | 1CT:1CT & 1CT:2.4CT | .505 / .375 / .245 | T608 |
| T1095 | T1095NL | 1CT:1.41CT & 1CT:1.41CT | .505 / .375 / .245 | T608 |
| T1096 | T1096NL | 1CT:1.41CT & 1CT:1.41CT | .505 / .375 / .245 | T608 |
| T1097 | T1097NL | 1CT:1CT & 1CT:1.67CT | .505 / .375 / .245 | T608 |
| T1146 | T1146NL | 1:2/2.4 & 1:0.79/1 | .505 / .375 / .245 | T608 |
| TX1088 | TX1088NL | 1CT:2CT & 1CT:2.42CT | .505 / .375 / .245 | T608 |
| TX1089 | TX1089NL | 1CT:1CT & 1CT:1CT | .505 / .375 / .245 | T608 |
| TX1099 | TX1099NL | 1CT:1:0.8 & 1CT:1:0.8 | .505 / .375 / .245 | T608 |
| TX1287 | TX1287NL | 1CT:2.42CT & 1CT:2.42CT | .505 / .375 / .245 | T608 |
| TX1317 | TX1317NL | 1:2CT & 1:2CS | .505 / .375 / .245 | T608 |
| TX1186 | TX1186NL | 1CT:1.58:2 & 1:1.65:2 | .505 / .375 / .245 | T608 |
| TX1187 | TX1187NL | 1CT:2CT & 1:1 | .505 / .375 / .245 | T608 |
| TX1188 | TX1188NL | 1CT:2CT & 1CT:2CT | .505 / .375 / .245 | T608 |
| TX1189 | TX1189NL | 1:1.36CT & 1:2CT | .505 / .375 / .245 | T608 |
| TX1467 | TX1467NL | 1CT:1:1 & 1CT:1:1 | .505 / .375 / .245 | T608 |
| 1.5 kV Isolation, Standard Temperature Range, ANTE Package, SMT | | | | |
| T1131 | T1131NL | 1CT:1 & 1:1.36CT | .675 / .600 / .340 | T608 |
| PE-68861 | PE-68861NL | 1CT:2CT & 1CT:2CT | .675 / .600 / .340 | T608 |
| PE-68862 | PE-68862NL | 1CT:2CT & 1:1.36CT | .675 / .600 / .340 | T608 |
| PE-68863 | PE-68863NL | 1:2CT & 1:1.14CT | .675 / .600 / .340 | T608 |
| PE-68864 | PE-68864NL | 1CT:2CT & 1:1 | .675 / .600 / .340 | T608 |
| PE-68865 | PE-68865NL | 1:1.15CT & 1CT:2CT | .675 / .600 / .340 | T608 |
| PE-68866 | PE-68866NL | 1:1/1.26 & 1:2CT | .675 / .600 / .340 | T608 |
| PE-68869 | PE-68869NL | 1CT:2CT & 1:1.08CT | .675 / .600 / .340 | T608 |
| PE-68836 | PE-68836NL | 1:1/1.26 & 1:1/1.26 | .675 / .600 / .340 | T608 |
| 1.5 kV Isolation, Extended Temperature Range, ANTE Package, SMT | | | | |
| PE-68822 | PE-68822NL | 1CT:2CT & 1:1.36CT | .675 / .600 / .340 | T608 |
| PE-68825 | PE-68825NL | 1:1.15CT & 1CT:2CT | .675 / .600 / .340 | T608 |
| PE-68826 | PE-68826NL | 1:1/1.26 & 1:2CT | .675 / .600 / .340 | T608 |
| PE-68827 | PE-68827NL | 1:1CT & 2:1 | .675 / .600 / .340 | T608 |
| PE-68828 | PE-68828NL | 1CT:1CT & 1CT:1CT | .675 / .600 / .340 | T608 |
| PE-68841 | PE-68841NL | 1CT:2CT & 1CT:2CT | .675 / .600 / .340 | T608 |
| PE-68874 | PE-68874NL | 1CT:1.15CT & 1CT:1.15CT | .675 / .600 / .340 | T608 |
| PE-68877 | PE-68877NL | 1CT:1CT & 1CT:2CT | .675 / .600 / .340 | T608 |
| PE-68881 | PE-68881NL | 1CT:2.3CT & 1CT:2CT | .675 / .600 / .340 | T608 |
| PE-68882 | PE-68882NL | 1:1.15CT & 1CT:1CT | .675 / .600 / .340 | T608 |
| PE-68884 | PE-68884NL | 1CT:1.36CT & 1CT:1.36CT | .675 / .600 / .340 | T608 |
| PE-68887 | PE-68887NL | 1CT:1.41CT & 1CT:1.41CT | .675 / .600 / .340 | T608 |
| TX1277 | TX1277NL | 1CT:1CT & 1CT:2CT | .675 / .600 / .340 | T608 |
| 3.0 kV Isolation – Standard Temperature Range, SMT | | | | |
| T1030 | — | 1CT:1CT & 1CT:1CT | .950 / .745 / .395 | T617 |
| T1081 | — | 1CT:1CT & 1CT:1.5CT | .950 / .745 / .395 | T617 |
| T1031 | — | 1CT:1CT & 1CT:2CT | .950 / .745 / .395 | T617 |
| T1032 | — | 1CT:1.15CT & 1CT:1CT | .950 / .745 / .395 | T617 |
| T1033 | — | 1CT:1.15CT & 1CT:1.15CT | .950 / .745 / .395 | T617 |
| T1034 | — | 1CT:1.15CT & 1CT:2CT | .950 / .745 / .395 | T617 |
| T1035 | — | 1CS:1CS & 1CS:1.36CS | .950 / .745 / .395 | T617 |
| T1038 | — | 1CT:1CT & 1CT:1.36CT | .950 / .745 / .395 | T617 |
| T1036 | — | 1CT:1.36CT & 1CT:1.36CT | .950 / .745 / .395 | T617 |
| T1037 | — | 1CT:1.41CT & 1CT:1.41CT | .950 / .745 / .395 | T617 |
| T1080 | — | 1CT:1.41CT & 1CT:1.41CT | .950 / .745 / .395 | T617 |
| T1039 | — | 1CT:2CT & 1CT:1.08CT | .950 / .745 / .395 | T617 |
| T1043 | — | 1CT:2CT & 1CT:1.14CT | .950 / .745 / .395 | T617 |

3.0 kV Isolation – Standard Temperature Range, SMT (continued)

| | | | | |
|-------|---|-------------------------|--------------------|------|
| T1044 | — | 1CT:2CT & 1CT:1.36CT | .950 / .745 / .395 | T617 |
| T1045 | — | 1CT:2CT & 1CT:2CT | .950 / .745 / .395 | T617 |
| T1047 | — | 1CT:2.3CT & 1CT:2CT | .950 / .745 / .395 | T617 |
| T1049 | — | 1CT:1/1.26 & 1CT:2CT | .950 / .745 / .395 | T617 |
| T1082 | — | 1CT:2.42CT & 1CT:2.42CT | .950 / .745 / .395 | T617 |
| T1308 | — | 1CT:2.4CT & 1CT:1CT | .675 / .600 / .340 | T666 |

DUAL TRANSFORMER/CHOKE INTERFACE MODULES

1.5 kV Isolation, Extended Temperature Range, SMT

| | | | | |
|-------|---------|-------------------------|--------------------|------|
| T1207 | T1207NL | 1CT:2CT & 1CT:2CT | .675 / .600 / .340 | T660 |
| T1208 | T1208NL | 1CT:2CT & 1CT:1.36CT | .675 / .600 / .340 | T660 |
| T1209 | T1209NL | 1CT:1.15CT & 1CT:2CT | .675 / .600 / .340 | T660 |
| T1210 | T1210NL | 1CT:1.26CT & 1CT:2CT | .675 / .600 / .340 | T660 |
| T1211 | T1211NL | 1CT:1.15CT & 1CT:1.15CT | .675 / .600 / .340 | T660 |
| T1212 | T1212NL | 1CT:1CT & 1CT:2CT | .675 / .600 / .340 | T660 |
| T1213 | T1213NL | 1CT:1.15CT & 1CT:1CT | .675 / .600 / .340 | T660 |
| T1214 | T1214NL | 1CT:1.36CT & 1CT:1.36CT | .675 / .600 / .340 | T660 |
| T1215 | T1215NL | 1CT:1.41CT & 1CT:1.41CT | .675 / .600 / .340 | T660 |
| T1216 | T1216NL | 1CT:2.3CT & 1CT:2CT | .675 / .600 / .340 | T660 |
| T1217 | T1217NL | 1CT:2.42CT & 1CT:2.42CT | .675 / .600 / .340 | T660 |
| T1218 | T1218NL | 1CT:1CT & 1CT:1.36CT | .675 / .600 / .340 | T660 |
| T1219 | T1219NL | 1CT:2.4CT & 1CT:1CT | .675 / .600 / .340 | T660 |
| T1220 | T1220NL | 1CT:1CT & 1CT:1CT | .675 / .600 / .340 | T660 |

QUAD TRANSFORMER/CHOKE INTERFACE MODULES

1.5 kV Isolation, Extended Temperature Range, SMT

| | | | | |
|--------|----------|-------------------------|--------------------|------|
| T1176 | T1176NL | 1CT:2.4CT & 1CT:1CT | .690 / .630 / .225 | T662 |
| TX1192 | TX1192NL | 1CT:2.42CT & 1CT:2.42CT | .690 / .630 / .225 | T662 |
| TX1193 | TX1193NL | 1CT:2CT & 1CT:1CT | .690 / .630 / .225 | T662 |
| TX1194 | TX1194NL | 1CT:1.15CT & 1CT:1.15CT | .690 / .630 / .225 | T662 |
| TX1195 | TX1195NL | 1CT:1.41CT & 1CT:1.41CT | .690 / .630 / .225 | T662 |
| TX1196 | TX1196NL | 1CT:2CT & 1CT:2CT | .690 / .630 / .225 | T662 |
| TX1197 | TX1197NL | 1CT:2CT & 1CT:2CT | .690 / .630 / .225 | T662 |
| TX1198 | TX1198NL | 1CT:2.3CT & 1CT:1CT | .690 / .630 / .225 | T662 |
| TX1199 | TX1199NL | 1CT:1.36CT & 1CT:2CT | .690 / .630 / .225 | T662 |
| TX1300 | TX1300NL | 1CT:1.36CT & 1CT:1CT | .690 / .630 / .225 | T662 |
| TX1301 | TX1301NL | 1CT:1.15CT & 1CT:2CT | .690 / .630 / .225 | T662 |
| T1337 | — | 1CT:1CT & 1CT:1CT | .537 / .590 / .245 | T665 |

QUAD TRANSFORMERS (four transformers per package)

1.5 kV Isolation, Extended Temperature Range, SMT

| | | | | |
|--------|----------|-------------------------|--------------------|------|
| TX1321 | TX1321NL | 1CT:2.4CT & 1CT:1CT | .690 / .630 / .225 | T662 |
| TX1322 | TX1322NL | 1CT:2.42CT & 1CT:2.42CT | .690 / .630 / .225 | T662 |
| TX1323 | TX1323NL | 1CT:2CT & 1CT:1CT | .690 / .630 / .225 | T662 |
| TX1324 | TX1324NL | 1CT:1.15CT & 1CT:1.15CT | .690 / .630 / .225 | T662 |
| TX1325 | TX1325NL | 1CT:1.41CT & 1CT:1.41CT | .690 / .630 / .225 | T662 |
| TX1326 | TX1326NL | 1CT:2CT & 1CT:2CT | .690 / .630 / .225 | T662 |
| TX1327 | TX1327NL | 1CT:2CT & 1CT:2CT | .690 / .630 / .225 | T662 |
| TX1328 | TX1328NL | 1CT:2.3CT & 1CT:1CT | .690 / .630 / .225 | T662 |
| TX1329 | TX1329NL | 1CT:1.36CT & 1CT:2CT | .690 / .630 / .225 | T662 |
| TX1330 | TX1330NL | 1CT:1.36CT & 1CT:1CT | .690 / .630 / .225 | T662 |
| TX1331 | TX1331NL | 1CT:1.15CT & 1CT:2CT | .690 / .630 / .225 | T662 |

QUAD TRANSFORMERS (four transformers per package)

1.5 kV Isolation, Standard Temperature Range, SMT

| | | | | |
|-------|---------|------------------|---------------------|------|
| T1001 | T1001NL | 1:1 & 1:1.36 | 1.000 / .425 / .295 | T615 |
| T1005 | T1005NL | 1:1.267 & 1:1.58 | 1.000 / .425 / .295 | T615 |
| T1006 | T1006NL | 1:1 & 1:2CT | 1.000 / .425 / .295 | T615 |
| T1007 | T1007NL | 1:1.15 | 1.000 / .425 / .295 | T615 |
| T1008 | T1008NL | 1:1.364 & 1:2 | 1.000 / .425 / .295 | T615 |
| T1009 | T1009NL | 1:1 & 1:1.265 | 1.000 / .425 / .295 | T615 |
| T1010 | T1010NL | 1:1.36CT | 1.000 / .425 / .295 | T615 |
| T1016 | T1016NL | 1:1.15 & 1:2 | 1.000 / .425 / .295 | T615 |
| T1017 | T1017NL | 1:2.3 & 1:2 | 1.000 / .425 / .295 | T615 |

*L/W/H is measured on surface mount parts tip to tip (height includes wash area).

SMT - Surface Mount Package THT - Through Hole Package

TELECOMMUNICATIONS PRODUCTS



TRANSFORMERS, TRANSFORMER MODULES

| T1/E1/CEPT/ISDN-Pri – Octal | | | | | |
|-----------------------------|--------------------|----------------|----------------|----------------------|------------|
| Part Number | RoHS-6 Part Number | Turns Ratio TX | Turns Ratio RX | Package L/W/H (in.)* | Data Sheet |

OCTAL TRANSFORMERS (eight transformers per package) 1.5 kV Isolation, Standard Temperature Range, SMT

| | | | | | |
|-------|---------|----------|----------|---------------------|------|
| T1063 | T1063NL | 1:1.36 | 1:1.36CT | 1.125 / .640 / .230 | T622 |
| T1064 | T1064NL | 1:1.14 | 1:1.14CT | 1.125 / .640 / .230 | T622 |
| T1065 | T1065NL | 1:2CT | 1:2CT | 1.125 / .640 / .230 | T622 |
| T1066 | T1066NL | 1:2 | 1:2CT | 1.125 / .640 / .230 | T622 |
| T1067 | T1067NL | 1:1.36CT | 1:2CT | 1.125 / .640 / .230 | T622 |
| T1068 | T1068NL | 1:2CT | 1:1CT | 1.125 / .640 / .230 | T622 |
| T1069 | T1069NL | 1CT:1.41 | 1CT:1.41 | 1.125 / .640 / .230 | T622 |
| T1070 | T1070NL | 1:1.15 | 1:2CT | 1.125 / .640 / .230 | T622 |
| T1071 | T1071NL | 1:1/1.26 | 1:2CT | 1.125 / .640 / .230 | T622 |
| T1072 | T1072NL | 1:1.15 | 1:1.15 | 1.125 / .640 / .230 | T622 |
| T1073 | T1073NL | 1:2 | 1:2 | 1.125 / .640 / .230 | T622 |
| T1124 | T1124NL | 1:2CT | 1CT:2 | 1.125 / .640 / .230 | T622 |
| T1125 | T1125NL | 1:1.70 | 1:1.36CT | 1.125 / .640 / .230 | T622 |
| T1129 | T1129NL | 1:1.36CT | 1:1CT | 1.125 / .640 / .230 | T622 |
| T1142 | T1142NL | 1:2.4 | 1:1 | 1.125 / .640 / .230 | T622 |
| T1145 | T1145NL | 1:2/2.4 | 1:0.79/1 | 1.125 / .640 / .230 | T622 |
| T1180 | T1180NL | 1:2.42 | 1:2.42 | 1.125 / .640 / .230 | T622 |
| T1181 | T1181NL | 1:2.1CT | 1:2.1CT | 1.125 / .640 / .230 | T622 |
| T1182 | T1182NL | 1:2.45CT | 1:2.45CT | 1.125 / .640 / .230 | T622 |
| T1078 | T1078NL | 1:1.08 | 1.08CT:1 | 1.125 / .640 / .230 | T622 |

1.5 kV Isolation, Extended Temperature Range, SMT

| | | | | | |
|-------|---------|----------|----------|---------------------|------|
| T1103 | T1103NL | 1:1.36 | 1:1.36CT | 1.125 / .640 / .230 | T622 |
| T1104 | T1104NL | 1:1.14 | 1:1.14CT | 1.125 / .640 / .230 | T622 |
| T1105 | T1105NL | 1:2CT | 1:2CT | 1.125 / .640 / .230 | T622 |
| T1106 | T1106NL | 1:2 | 1:2CT | 1.125 / .640 / .230 | T622 |
| T1107 | T1107NL | 1:1.36CT | 1:2CT | 1.125 / .640 / .230 | T622 |
| T1108 | T1108NL | 1:2CT | 1:1CT | 1.125 / .640 / .230 | T622 |
| T1109 | T1109NL | 1CT:1.41 | 1CT:1.41 | 1.125 / .640 / .230 | T622 |
| T1110 | T1110NL | 1:1.15 | 1:2CT | 1.125 / .640 / .230 | T622 |
| T1111 | T1111NL | 1:1/1.26 | 1:2CT | 1.125 / .640 / .230 | T622 |

1.5 kV Isolation, Standard Temperature Range, SMT

| | | | | | |
|--------|----------|----------|----------|---------------------|------|
| T1112 | T1112NL | 1:1.15 | 1:1.15 | 1.125 / .640 / .230 | T622 |
| T1113 | T1113NL | 1:2 | 1:2 | 1.125 / .640 / .230 | T622 |
| T1114 | T1114NL | 1:2CT | 1CT:2 | 1.125 / .640 / .230 | T622 |
| T1226 | T1226NL | 1:1.5 | 1.41:1 | 1.125 / .640 / .230 | T622 |
| T1231 | T1231NL | 1:2.4 | 1:1 | 1.125 / .640 / .230 | T622 |
| TX1262 | TX1262NL | 1:2 | 1:2 | 1.125 / .640 / .230 | T622 |
| TX1264 | TX1264NL | 1:2CT | 1CT:1.41 | 1.125 / .640 / .230 | T622 |
| TX1266 | TX1266NL | 1:2 | 1:1 | 1.125 / .640 / .230 | T622 |
| TX1292 | TX1292NL | 1:1.36 | 1:1 | 1.125 / .640 / .230 | T622 |
| TX1294 | TX1294NL | 1:1CT | 1:1CT | 1.125 / .640 / .230 | T622 |
| TX1295 | TX1295NL | 1:1.26CT | 1:1.26CT | 1.125 / .640 / .230 | T622 |
| TX1298 | TX1298NL | 1:1 | 1:1 | 1.125 / .640 / .230 | T622 |
| TX1299 | TX1299NL | 1:2.42 | 1:2.42 | 1.125 / .640 / .230 | T622 |
| TX1341 | TX1341NL | 1:2 | 1:2 | 1.000 / .425 / .295 | T671 |
| TX1342 | TX1342NL | 1:1.15 | 1:1.15 | 1.000 / .425 / .295 | T671 |
| T1343 | T1343NL | 1:1.266 | 1:1.266 | 1.000 / .425 / .295 | T671 |
| TX1344 | TX1344NL | 1:1 | 1:2 | 1.000 / .425 / .295 | T671 |
| TX1470 | TX1470NL | 1:1.41 | 1:1.41 | 1.000 / .425 / .295 | T671 |
| TX1472 | TX1472NL | 1: 2.4 | 1:1 | 1.000 / .425 / .295 | T671 |
| TX1473 | TX1473NL | 1:2 | 1:1 | 1.000 / .425 / .295 | T671 |
| TX1474 | TX1474NL | 1:2.42 | 1:2.42 | 1.000 / .425 / .295 | T671 |
| TX1471 | TX1471NL | 1:1 | 1:1 | 1.000 / .425 / .295 | T671 |

OCTAL TRANSFORMER/CHOKE INTERFACE MODULES

1.5 kV Isolation, Extended Temperature Range, SMT

| | | | | | |
|--------|----------|-----|-----|---------------------|------|
| TX1263 | TX1263NL | 1:2 | 1:2 | 1.125 / .640 / .285 | T682 |
| TX1267 | TX1267NL | 1:2 | 1:1 | 1.125 / .640 / .285 | T682 |

SONET/SDH (STM-1/E4/CMI)

| Part Number | Turns Ratio | Primary Inductance OCL (µH MIN) | Package L/W/H (in.) ¹ | Data Sheet |
|-------------|-------------|---------------------------------|----------------------------------|------------|
|-------------|-------------|---------------------------------|----------------------------------|------------|

DUAL, SMT

| | | | | |
|-----------|---------|----|--------------------|------|
| A7802 | 1:1 | 42 | .500 / .295 / .220 | A103 |
| ST6200QNL | 1CT:1CT | 28 | .455 / .375 / .225 | T692 |

1. **SOIC** = 50 mil pitch leads. Length and width are MAX package dimensions. Height dimensions include the wash area.

| T1/E1 Protection Modules | | | | |
|--------------------------|-------------|---------------------------------|----------------------|------------|
| Part Number | Turns Ratio | Primary Inductance OCL (µH MIN) | Package L/W/H (in.)* | Data Sheet |

OCTAL TRANSFORMER MODULES, 1.5 kV Isolation Extended Temperature Range, Line Side Protection, SMT

| | TX | RX | | | |
|--------|----------|----------|-----|---------------------|------|
| T9030 | 1CT:2 | 1CT:1 | 1.2 | 1.255 / .852 / .305 | T656 |
| TX9031 | 1CT:2.4 | 1:1CT | 1.2 | 1.255 / .852 / .305 | T670 |
| TX9032 | 1CT:1 | 1:1CT | 1.2 | 1.255 / .852 / .305 | T680 |
| TX9033 | 1CT:1.14 | 1.14:1CT | 1.2 | 1.255 / .852 / .305 | T680 |

IC Side Protection, SMT

| | | | | | |
|--------|--------|--------|-----|---------------------|------|
| T9021 | 1:2.42 | 1:2.42 | .6 | 1.125 / .640 / .285 | T657 |
| TX9020 | 1:2.42 | 1:2.42 | 1.2 | 1.125 / .640 / .285 | T677 |
| TX9022 | 1:2.42 | 1:2.42 | 1.2 | 1.125 / .640 / .285 | T677 |
| TX9023 | 1:2 | 1:2 | 1.2 | 1.125 / .640 / .285 | T674 |
| TX9025 | 1:2CT | 1:2 | 1.2 | 1.125 / .640 / .285 | T686 |
| TX9027 | 1:2 | 1:2 | 1.2 | 1.125 / .640 / .285 | T691 |

T3/DS3/E3/STS-1 – Single, Dual, Six Octal, Twelve

SINGLE TRANSFORMERS

| THT | Turns Ratio | Primary Inductance OCL (µH MIN) | Package L/W/H (in.)* | Data Sheet |
|----------|-------------|---------------------------------|----------------------|------------|
| PE-68629 | 1:1 | 40 | .350 / .500 / .250 | T606 |
| PE-65966 | 1:1 | 40 | .300 / .280 / .250 | T606 |
| PE-65863 | 1:1 | 40 | .300 / .400 / .250 | T606 |
| PE-65969 | 1:2CT | 19 | .300 / .280 / .250 | T606 |
| PE-65664 | 1:2CT | 35 | .300 / .400 / .250 | T606 |
| PE-68630 | 1:2CT | 19 | .350 / .500 / .250 | T606 |
| PE-65779 | 1:4CT | 200 | .300 / .400 / .250 | T606 |
| PE-65856 | 1:1.73CT | 50 | .300 / .280 / .250 | T606 |

SMT

| | | | | |
|----------|-------|----|--------------------|------|
| PE-65967 | 1:1 | 40 | .300 / .390 / .250 | T606 |
| PE-65662 | 1:1 | 45 | .300 / .420 / .200 | T606 |
| PE-65968 | 1:2CT | 19 | .300 / .390 / .250 | T606 |
| PE-65661 | 1:2CT | 35 | .300 / .420 / .200 | T606 |

SMT, Extended Temperature Range

| | | | | |
|-------|----------|-----|--------------------|------|
| T3001 | 1:1 | 100 | .300 / .390 / .250 | T619 |
| T3002 | 1:2CT | 40 | .300 / .390 / .250 | T619 |
| T3011 | 1:1 | 100 | .300 / .390 / .250 | T619 |
| T3012 | 1:2CT | 40 | .300 / .390 / .250 | T619 |
| T3027 | 1CT:1CT | 40 | .300 / .390 / .250 | T619 |
| T3029 | 1:1.15CT | 40 | .300 / .390 / .250 | T619 |

DUAL TRANSFORMERS,

SMT, Extended Temperature Range

| | | | | |
|--------|---------------|-----------|--------------------|------|
| T3020 | 1:2CT & 1:1 | 40 & 100 | .505 / .375 / .245 | T655 |
| T3021 | 1:2CT & 1:2CT | 100 & 100 | .505 / .375 / .245 | T655 |
| T3023 | 1:1 & 1:1 | 40 & 40 | .505 / .375 / .245 | T655 |
| TX3025 | 1CT:1CT & 1:1 | 100 & 100 | .505 / .375 / .245 | T655 |
| TX3026 | 1:2CT & 1:1 | 100 & 100 | .505 / .375 / .245 | T655 |

SIX TRANSFORMERS (Triple Port)

SMT, Extended Temperature Range

| | | | | |
|--------|-----|-----|--------------------|------|
| TX3036 | 1:1 | 100 | .537 / .510 / .226 | T672 |
|--------|-----|-----|--------------------|------|

OCTAL TRANSFORMERS (Quad Port)

SMT

| | | | | |
|--------|-------------|----|---------------------|------|
| TX3042 | 1:1 & 1:2CT | 40 | 1.125 / .640 / .230 | T690 |
| TX3045 | 1:1 & 1:2 | 40 | 1.000 / .425 / .295 | T663 |
| TX3047 | 1:1 | 40 | 1.000 / .425 / .295 | T663 |
| T3048 | 1:1 | 40 | 1.000 / .425 / .295 | T663 |
| T3049 | 1:2 | 19 | 1.000 / .425 / .295 | T663 |

TWELVE TRANSFORMERS (Six Port)

SMT, Extended Temperature Range

| | | | | |
|--------|-----|----|---------------------|------|
| TX3051 | 1:1 | 60 | 1.120 / .630 / .280 | T668 |
| TX3052 | 1:2 | 40 | 1.120 / .630 / .280 | T668 |

SMT - Surface Mount Package THT - Through Hole Package

*L/W/H is measured on surface mount parts tip to tip (height includes wash area).

TELECOMMUNICATIONS PRODUCTS



TRANSFORMERS, TRANSFORMER MODULES

ISDN U-Interface ¹

| Part Number | Turns Ratio | | | OCL Line Side (mH MIN) | Package L/W/H (in.)* | Data Sheet |
|-------------|-------------|----------|-------------|------------------------|----------------------|------------|
| | 1.5-2.0 kV | 2.5 kV | 3 kV | | | |
| THT | | | | | | |
| PE-65575 | — | PE-68669 | 1.65:1 | 13.0 - 18.0 | 1.100 / .750 / .430 | T603 |
| PE-65578 | — | — | 1.32:1 | 7.0 - 8.3 | 1.100 / .750 / .430 | T603 |
| PE-65579 | — | — | 2.00:1 | 25.5 - 28.5 | 1.100 / .950 / .450 | T603 |
| PE-65581 | — | — | 1.50:1 | 14.2 - 15.8 | 1.100 / .950 / .450 | T603 |
| PE-65583 | PE-68631 | — | 1.50:1 | 25.6 - 28.4 | 1.100 / .950 / .450 | T603 |
| PE-65584 | PE-68681 | — | 1.50:1 | 25.6 - 28.4 | 1.100 / .950 / .450 | T603 |
| PE-68628 | PE-68668 | — | 1.25:1 | 26.5 - 29.5 | 1.100 / .950 / .450 | T603 |
| T4008 | — | — | 1.50:1 | 73.0 - 98.0 | 1.050 / .900 / .1050 | T616 |
| PT4084 | — | — | 1:0.75:0.75 | 85.0 | .800 / 1.020 / .675 | PT4084 |
| PT5031 | — | — | 1:1.25 | 14.5 | .800 / 1.020 / .675 | PT5031 |
| PT5062 | — | — | 1:1.6CT | 27.0 | .800 / 1.020 / .675 | PT5062 |
| PT5065 | — | — | 1:1.33CT | 27.0 | .800 / 1.020 / .675 | PT5065 |
| T4022 | — | — | 1.6CS:1CT | 8.41 - 2.60 | .760 / .870 / .450 | T625 |

1. Echo Cancellation Hybrid units PE-36005 and PE-36005W are also available.

| Part Number | Turns Ratio | Primary Inductance OCL (mH MIN) | Package L/W/H (in.)* | Data Sheet |
|-------------|-------------|---------------------------------|----------------------|------------|
| SMT | | | | |
| T4001 | 1.25:1 | 26.5 - 30.0 | .760 / .870 / .500 | T614 |
| T4002 | 1.65:1 | 15.0 - 18.0 | .760 / .870 / .500 | T614 |
| T4004 | 1.50:1 | 25.6 - 28.4 | .760 / .870 / .500 | T614 |
| T4006 | 1.50:1 | 14.2 - 15.8 | .760 / .870 / .500 | T614 |
| T4031 | 1.65CS:1CT | 13.0 - 18.0 | .695 / .530 / .485 | T624 |
| T4032 | 1.25CS:1CT | 11.9 - 16.1 | .695 / .530 / .485 | T624 |
| T4033 | 1.25CS:1CT | 26.6 - 29.4 | .695 / .530 / .485 | T624 |
| T4043 | 2CS:1CS | 13.5 - 16.5 | .695 / .530 / .485 | T624 |
| T4067 | 1.32CS:1 | 7.5 - 8.3 | .695 / .530 / .485 | T624 |

1. Echo Cancellation Hybrid units PE-36005 and PE-36005W are also available.

ISDN S-Interface — Single, Dual

| Part Number | Turns Ratio | Primary Inductance OCL (mH MIN) | Package L/W/H (in.)* | Data Sheet |
|-------------|-------------|---------------------------------|----------------------|------------|
|-------------|-------------|---------------------------------|----------------------|------------|

SINGLE TRANSFORMERS, 1.5 kV ISOLATION

PCMIA Type 2, SMT

| | | | | |
|-------|-------|----|--------------------|------|
| T5002 | 1:1 | 22 | .492 / .670 / .167 | T631 |
| T5003 | 1:2 | 22 | .492 / .670 / .167 | T631 |
| T5004 | 1:2.5 | 22 | .492 / .670 / .167 | T631 |

SINGLE TRANSFORMERS, 2.0 kV ISOLATION

THT

| | | | | |
|----------|-------|----|--------------------|------|
| PE-64993 | 1:1 | 22 | .560 / .560 / .400 | T604 |
| PE-64994 | 1:1.8 | 22 | .560 / .560 / .400 | T604 |
| PE-64995 | 1:2 | 22 | .560 / .560 / .400 | T604 |
| PE-64996 | 1:2.5 | 22 | .560 / .560 / .400 | T604 |
| PE-64998 | 1:2.5 | 22 | .560 / .560 / .400 | T604 |
| PE-64999 | 1:2 | 22 | .560 / .560 / .400 | T604 |

DUAL TRANSFORMERS, 2.0 kV ISOLATION

THT

| | | | | |
|----------|---------------|----|--------------------|------|
| PE-65492 | 1:1 & 1:2 | 22 | .920 / .560 / .400 | T604 |
| PE-65493 | 1:1 & 1:1 | 22 | .920 / .560 / .400 | T604 |
| PE-65495 | 1:2 & 1:2 | 22 | .920 / .560 / .400 | T604 |
| PE-65498 | 1:2.5 & 1:2.5 | 22 | .920 / .560 / .400 | T604 |
| PE-65499 | 1:2 & 1:2 | 22 | .920 / .560 / .400 | T604 |

SMT

| | | | | |
|----------|-----------------------|----|--------------------|--------|
| PE-65792 | 1:1 & 1:2 | 22 | .950 / .720 / .390 | T604 |
| PE-65793 | 1:1 & 1:1 | 22 | .950 / .720 / .390 | T604 |
| PE-65795 | 1:2 & 1:2 | 22 | .950 / .720 / .390 | T604 |
| PE-65798 | 1:2.5 & 1:2.5 | 22 | .950 / .720 / .390 | T604 |
| PE-65799 | 1:2 & 1:2 | 22 | .950 / .720 / .390 | T604 |
| ST5048 | 1CS:2.5CS & 1CS:2.5CS | 22 | .987 / .575 / .340 | ST5048 |
| ST5069 | 1CS:2CS & 1CS:2CS | 22 | .987 / .575 / .340 | ST5069 |

ISDN S-Interface — Single, Dual (continued)

| Part Number | Turns Ratio | Primary Inductance OCL (mH MIN) | Package L/W/H (in.)* | Data Sheet |
|-------------|-------------|---------------------------------|----------------------|------------|
|-------------|-------------|---------------------------------|----------------------|------------|

DUAL TRANSFORMERS, 2.0 kV ISOLATION (continued)

Low Profile, SMT

| | | | | |
|-------|---------------|----|--------------------|------|
| T5005 | 1:2.5 & 1:2.5 | 22 | .950 / .720 / .295 | T613 |
| T5006 | 1:2 & 1:2 | 22 | .950 / .720 / .295 | T613 |
| T5007 | 1:2 & 1:2 | 22 | .950 / .720 / .295 | T613 |
| T5008 | 1:1 & 1:1 | 22 | .950 / .720 / .295 | T613 |
| T5009 | 1:1 & 1:2 | 22 | .950 / .720 / .295 | T613 |
| T5010 | 1:1.8 & 1:1.8 | 22 | .950 / .720 / .295 | T613 |

SINGLE TRANSFORMERS, 3.0 kV ISOLATION

Reinforced Insulation per IEC 950, THT

| | | | | |
|----------|---------|----|--------------------|------|
| PE-68992 | 1:2CT | 22 | .750 / .750 / .500 | T604 |
| PE-68993 | 1:1 | 22 | .750 / .750 / .500 | T604 |
| PE-68995 | 1:2 | 22 | .750 / .750 / .500 | T604 |
| PE-68998 | 1:2.5 | 22 | .750 / .750 / .500 | T604 |
| PE-68999 | 1:2 | 22 | .750 / .750 / .500 | T604 |
| T5035 | 1CT:2CT | 30 | .578 / .648 / .565 | T636 |

DUAL TRANSFORMERS, 3.0 kV ISOLATION

SMT

| | | | | |
|-------|---------------|----|---------------------|------|
| T5042 | 1:2 & 1:2 | 22 | 1.092 / .726 / .430 | T638 |
| T5043 | 1:2.5 & 1:2.5 | 22 | 1.092 / .726 / .430 | T638 |

ISDN S-Interface Modules, Transformer & Choke

| Part Number | Turns Ratio | Pri. Inductance OCL (mH MIN) | OCL (mH MIN) | | Package L/W/H (in.)* | Data Sheet |
|-------------|-------------|------------------------------|--------------|-------|----------------------|------------|
| | | | Transformer | Choke | | |

THT

| | | | | | |
|-------|-----------------------|----|------|---------------------|------|
| T5011 | 1CT:1CT & 1CT:1CT | 30 | 4.70 | 1.150 / .420 / .590 | T632 |
| T5012 | 1CT:2CT & 1CT:2CT | 30 | 4.70 | 1.150 / .420 / .590 | T632 |
| T5013 | 1CT:2.5CT & 1CT:2.5CT | 30 | 4.70 | 1.150 / .420 / .590 | T632 |
| T5015 | 1:2CT & 1:2CT | 30 | 4.70 | 1.150 / .420 / .590 | T632 |

SMT

| | | | | | |
|--------|-----------------------|----|------|---------------------|--------|
| T5034 | 1CT:2CT & 1CT:2CT | 30 | 4.70 | 1.170 / .660 / .320 | T635 |
| T5037 | 1CT:2.5CT & 1CT:2.5CT | 30 | 4.70 | 1.170 / .660 / .320 | T635 |
| T5038 | 1CT:2CT & 1CT:2CT | 30 | 0.47 | 1.170 / .660 / .320 | T635 |
| T5039 | 1CT:2.5CT & 1CT:2.5CT | 30 | 0.47 | 1.170 / .660 / .320 | T635 |
| ST5201 | 1CS:2CS & 1CS:2CS | 22 | 0.42 | .987 / .575 / .340 | ST5201 |
| T5049 | 1CT:1CT & 1CT:1CT | 30 | 4.70 | 1.170 / .660 / .320 | T635 |

Echelon® & Digital Audio, Single

| Part Number | Turns Ratio | Primary Inductance OCL (mH MIN) | Package L/W/H (in.)* | Data Sheet |
|-------------|-------------|---------------------------------|----------------------|------------|
|-------------|-------------|---------------------------------|----------------------|------------|

THT

| | | | | |
|--------------------|---------|-----------|--------------------|------|
| T6074 ¹ | 1:1 | .225 | .350 / .500 / .250 | T688 |
| T6075 | 1:1 | .225 | .350 / .500 / .250 | T688 |
| PE-65948 | 1CT:1CT | 3.5 - 6.5 | .350 / .500 / .250 | T602 |
| PE-65612 | 1:1 | 2.5 | .350 / .500 / .250 | T601 |

SMT

| | | | | |
|----------|---------|-----------|--------------------|------|
| PE-65848 | 1CS:1CS | 3.5 - 6.5 | .480 / .600 / .340 | T602 |
| PE-65812 | 1:1 | 2.5 | .480 / .600 / .340 | T601 |

1. With shield

DDS / Switched 56

SMT

| | | | | |
|-------|---------|----|--------------------|------|
| T7002 | 1CT:1CT | 40 | .530 / .695 / .485 | T629 |
| T7006 | 1CT:1CT | 40 | .410 / .525 / .365 | T629 |

Audio / Voice Band

SMT

| Isolation Voltage | | | | |
|-------------------|-----|------|--------------------|------|
| T6003 | 1:1 | 1500 | .530 / .695 / .485 | T628 |

SMT - Surface Mount Package THT - Through Hole Package

*L/W/H is measured on surface mount parts tip to tip (height includes wash area).

TELECOM IC CROSS REFERENCE



IC CROSS REFERENCE

| ISDN U-Interface | | | | | | |
|--|-------------------------|-------|-----------------------|--------------------|----------|----------|
| IC Manufacturer/ IC Part Number | Recommended Transformer | | | | | |
| | 1.5 kV | | 2 kV | | 2.5 kV | 3 kV |
| | THT | SMT | THT | SMT | | |
| Alcatel (Microelectronics) | | | | | | |
| MTC20276 | — | T4043 | — | — | — | — |
| AKM | | | | | | |
| AK5204 | T4022 | — | — | — | — | — |
| Infineon Technologies (Siemens) | | | | | | |
| PEB 2091 | PT5031 | T4031 | PE-65575 | T4002 | — | PE-68669 |
| PEB 8091/8191 | — | T4031 | PE-65575 | T4002 | — | PE-68669 |
| PEB 2090/20901 | — | T4067 | PE-65578 | — | — | — |
| PEB 24902/11 | — | T4031 | PE-65575 | T4002 | — | PE-68669 |
| PSB 21910/11 | — | T4031 | PE-65575 | T4002 | — | PE-68669 |
| PEB 2491 | — | T4032 | — | — | — | — |
| PEB 20901 | — | T4067 | PE-65578 | — | — | — |
| PEB 2095 | — | — | — | — | — | — |
| PSB 2196 | — | — | — | — | — | — |
| Lucent Technologies | | | | | | |
| T7234 | PT4084 | — | T4008 | — | — | — |
| Motorola | | | | | | |
| MC145472 | — | — | PE-65579 | — | — | — |
| MC145572 | PT5062 | T4033 | PE-68628 ¹ | T4001 ² | PE-68668 | — |
| National Semiconductor | | | | | | |
| TP3410 | PT5065 | — | PE-65583 | — | PE-68631 | — |
| | — | — | PE-65584 | T4004 | — | — |
| Thomson | | | | | | |
| SD 5411 | — | — | PE-65581 | T4006 | PE-68631 | — |

1. **Small package** for North American applications available.
See **T618** data sheet.

2. **Suitable** for use in North America only.

| Echelon® & Digital Audio | | | |
|--------------------------|-----------------|----------|-------------|
| IC Manufacturer | IC Part Number | Single | |
| | | SMT | THT |
| Echelon® | 3120™ 1.25 Mbps | PE-65848 | PE-65948 |
| | 3150™ 1.25 Mbps | PE-65848 | PE-65948 |
| AKM | AK4101 | PE-65812 | PE-65612 |
| | AK4102 | PE-65812 | PE-65612 |
| | AK4103 | PE-65812 | PE-65612 |
| Cirrus Logic | CS8401/2/3/4 | PE-65812 | PE-65612 |
| | CS8405/8415 | PE-65812 | PE-65612 |
| | CS8413/14/27 | PE-65812 | PE-65612 |
| | CS8406/8416 | — | T6074/T6075 |
| Realtek | ALS300+ | PE-65812 | PE-65612 |

| DDS/Switched 56 | | |
|-----------------|----------------|-------------------------|
| IC Manufacturer | IC Part Number | Recommended Transformer |
| | | Dual SMT |
| Intel | LXT 441 | T7002 |
| Intel | LXT 441 | T7006 |

| SONET/SDH (STM-1/E4/CMI) DUAL TRANSFORMERS | | |
|--|----------------------|-------------------------|
| IC Manufacturer | IC Part Number | Recommended Transformer |
| | | Single SMT |
| AMCC | S3015, S3016, S3031B | A7802 |
| Intel | LXT6155 | ST6200QNL |

| ISDN S-Interface | | | | | | | | |
|--|--------------------------------------|------------|----------|-----------------------------|---------------------------------|----------------------|--------------------|---------|
| IC Manufacturer/ Part Number | Dual SMT | Single THT | Dual THT | Dual SMT Module 1.5kVRMS | THT Module w/ Choke 1.5kVRMS | Single THT 3kVRMS | Dual SMT 3kVRMS | PCMCIA |
| | TX & RX | TX & RX | TX & RX | TX & RX | TX & RX | TX & RX | TX & RX | TX & RX |
| Alcatel (Microelectronics) | | | | | | | | |
| MTC2072, MTC20172 | PE-65795/T5007 ^{LP} /ST5069 | PE-64995 | PE-65495 | T5034/T5038/ST5201 | T5015/T5012 | PE-68995/T5035 | T5042 | T5003 |
| MTC20276/77 | PE-65795/T5007 ^{LP} /ST5069 | PE-64995 | PE-65495 | T5034/T5038/ST5201 | T5015/T5012 | PE-68995/T5035 | T5042 | T5003 |
| AMD | | | | | | | | |
| AM79C30/32 | PE-65799/T5006 ^{LP} | PE-64999 | PE-65499 | T5034/T5038/ST5201 | T5015/T5012 | PE-68995/T5035 | T5042 | T5003 |
| Cologne Chip Design | | | | | | | | |
| HFC-SXX | PE-65795/T5007 ^{LP} /ST5069 | PE-64995 | PE-65495 | T5034/T5038/ST5201 | T5015/T5012 | PE-68999/T5035 | T5042 | T5003 |
| Infineon Technologies (Siemens) | | | | | | | | |
| PEB2080/81/84/85/86 | PE-65795/T5007 ^{LP} /ST5069 | PE-64995 | PE-65495 | T5034/T5038/ST5201 | T5015/T5012 | PE-68995/T5035 | T5042 | T5003 |
| PSB2115/86 | PE-65795/T5007 ^{LP} /ST5069 | PE-64995 | PE-65495 | T5034/T5038/ST5201 | T5015/T5012 | PE-68995/T5035 | T5042 | T5003 |
| PSB21381/82/83/84 | PE-65793/T5008 ^{LP} /ST5048 | PE-64993 | PE-65493 | T5049 | T5011 | PE-68993 | — | T5002 |
| PEB3018/86, PSB3186 | PE-65793/T5008 ^{LP} /ST5048 | PE-64993 | PE-65493 | T5049 | T5011 | PE-68993 | — | T5002 |
| PEB8090/91, PEB8190/91 | — | — | — | T5034/T5038/ST5201 | T5015/T5012 | PE-68995/T5035 | T5042 | — |
| Intel | | | | | | | | |
| 29C53 | PE-65795/T5010 ^{LP} /ST5069 | PE-64995 | PE-65495 | T5034/T5038/ST5201 | T5015/T5012 | PE-68995/T5035 | T5042 | T5003 |
| Lucent Technologies | | | | | | | | |
| T7234, T7254 | PE-65798/T5005 ^{LP} | PE-64998 | PE-65498 | T5037/T5039 | T5013 | PE-68998 | T5043 | T5004 |
| T7250/56/59 | PE-65798/T5005 ^{LP} | PE-64998 | PE-65498 | T5037/T5039 | T5013 | PE-68998 | T5043 | T5004 |
| T7901/03 | PE-65795/T5007 ^{LP} /ST5069 | PE-64995 | PE-65495 | T5034/T5038/ST5201 | T5015/T5012 | PE-68995/T5035 | T5042 | T5003 |
| Mitel | | | | | | | | |
| MT8930/31 | PE-65795/T5007 ^{LP} /ST5069 | PE-64995 | PE-65495 | T5034/T5038/ST5201 | T5015/T5012 | PE-68995/T5035 | T5042 | T5003 |
| Motorola | | | | | | | | |
| MC145474/475 | PE-65793/T5008 ^{LP} /ST5048 | PE-64993 | PE-65493 | T5049 | T5011 | PE-68993 | — | T5002 |
| MC145574 | PE-65798/T5005 ^{LP} | PE-64998 | PE-65498 | T5037/T5039 | T5013 | PE-68998 | T5043 | T5004 |
| National Semiconductor | | | | | | | | |
| TP3420/21 | PE-65795/T5007 ^{LP} /ST5069 | PE-64995 | PE-65495 | T5034/T5038/ST5201 | T5015/T5012 | PE-68995/T5035 | T5042 | T5003 |
| SGS Thomson | | | | | | | | |
| ST5420/21 | PE-65795/T5007 ^{LP} /ST5069 | PE-64995 | PE-65495 | T5034/T5038/ST5201 | T5015/T5012 | PE-68995/T5035 | T5042 | T5003 |
| Yamaha | | | | | | | | |
| 7405B, YTD421 | PE-65795/T5007 ^{LP} /ST5069 | PE-64995 | PE-65495 | T5034/T5038/ST5201 | T5015/T5012 | PE-68995/T5035 | T5042 | T5003 |

NOTE: LP = Low Profile

*L/W/H is measured on surface mount parts tip to tip (height includes wash area).

SMT - Surface Mount Package THT - Through Hole Package

TELECOM IC CROSS REFERENCE



IC CROSS REFERENCE

T3/DS3/E3/STS-1

| IC Manufacturer/ IC Part Number | 12 Xfmrs Ext. Temp. | Octal Xfmrs | 6 Xfmrs Ext. Temp. | Dual SMT Ext. Temp. | Single SMT | | | | Single THT | | Single THT 3 kVRMS | |
|------------------------------------|------------------------|----------------|-----------------------|------------------------|----------------|----------|----------------|----------|------------|----------|-----------------------|----------|
| | | | | | Standard Temp. | | Extended Temp. | | TX | RX | TX | RX |
| | | | | | TX | RX | TX | RX | | | | |
| Exar | | | | | | | | | | | | |
| XRT75xxx | TX3051 | T3048 | TX3036 | TX3025 | PE-65967 | PE-65967 | T3001 | T3001 | PE-65966 | PE-65966 | PE-68629 | PE-68629 |
| XRT73L00/2/3/4/6/12 | TX3051 | T3048 | TX3036 | TX3025 | PE-65967 | PE-65967 | T3001 | T3001 | PE-65966 | PE-65966 | PE-68629 | PE-68629 |
| XRT73LC03A/04A,R12 | TX3051 | T3048 | TX3036 | TX3025 | PE-65967 | PE-65967 | T3001 | T3001 | PE-65966 | PE-65966 | PE-68629 | PE-68629 |
| XRT7300/7302 | TX3051 | T3048 | TX3036 | TX3025 | PE-65967 | PE-65967 | T3001 | T3001 | PE-65966 | PE-65966 | PE-68629 | PE-68629 |
| Infineon Technologies | | | | | | | | | | | | |
| PEB3452/3460 | — | — | — | — | — | — | T3027 | T3011/01 | — | — | — | — |
| Maxim (Dallas Semi) | | | | | | | | | | | | |
| DS3181/2/3/4 | TX3052 | T3049 | — | — | PE-65968 | PE-65968 | T3002 | T3002 | PE-65969 | PE-65969 | PE-68630 | PE-68630 |
| DS3150/1/2/3/4 | TX3052 | T3049 | — | — | PE-65968 | PE-65968 | T3002 | T3002 | PE-65969 | PE-65969 | PE-68630 | PE-68630 |
| Mindspeed | | | | | | | | | | | | |
| CN28333/332/331 | TX3051 | T3048 | TX3036 | TX3025 | PE-65967 | PE-65967 | T3001 | T3001 | PE-65966 | PE-65966 | PE-68629 | PE-68629 |
| M28335/M28356 | TX3051 | T3048 | TX3036 | TX3025 | PE-65967 | PE-65967 | T3001 | T3001 | PE-65966 | PE-65966 | PE-68629 | PE-68629 |
| M28354/3/2 | TX3051 | T3048 | TX3036 | TX3025 | PE-65967 | PE-65967 | T3001 | T3001 | PE-65966 | PE-65966 | PE-68629 | PE-68629 |
| TDK Semiconductor | | | | | | | | | | | | |
| 78P2342/43/44 | TX3051/TX3052 | TX3045 | T3020 or TX3026 | PE-65968 | PE-65967 | T3002 | T3001 | PE-65969 | PE-65966 | PE-68630 | PE-68629 | — |
| 78P2241B | TX3051/TX3052 | TX3045 | T3020 or TX3026 | PE-65968 | PE-65967 | T3002 | T3001 | PE-65969 | PE-65966 | PE-68630 | PE-68629 | — |
| 78P7200/7200L | TX3051/TX3052 | TX3045 | T3020 or TX3026 | PE-65968 | PE-65967 | T3002 | T3001 | PE-65969 | PE-65966 | PE-68630 | PE-68629 | — |
| 78P7203L/7204L | TX3051/TX3052 | TX3045 | T3020 or TX3026 | PE-65968 | PE-65967 | T3002 | T3001 | PE-65969 | PE-65966 | PE-68630 | PE-68629 | — |
| 78P2362/2361 | TX3051/TX3052 | TX3045 | T3020 or TX3026 | PE-65968 | PE-65967 | T3002 | T3001 | PE-65969 | PE-65966 | PE-68630 | PE-68629 | — |
| Transwitch | | | | | | | | | | | | |
| MRT TXC-02050 | TX3051/TX3052 | TX3045 | — | T3020 or TX3026 | PE-65968 | PE-65967 | T3002 | T3001 | PE-65969 | PE-65966 | PE-68630 | PE-68629 |
| ART TXC-02020 | TX3051 | T3048 | — | TX3025 | PE-65967 | PE-65967 | T3001 | T3001 | PE-65966 | PE-65966 | PE-68629 | PE-68629 |
| ARTE TXC-02021 | TX3051 | T3048 | — | TX3025 | PE-65967 | PE-65967 | T3001 | T3001 | PE-65966 | PE-65966 | PE-68629 | PE-68629 |
| DART TXC-2030, DS3 | TX3051 | T3048 | — | TX3025 | PE-65967 | PE-65967 | T3001 | T3001 | PE-65966 | PE-65966 | PE-68629 | PE-68629 |
| DART TXC-2030, E3 | TX3051/TX3052 | T3049/T3048 | — | T3020 or TX3026 | PE-65968 | PE-65967 | T3002 | T3001 | PE-65969 | PE-65966 | PE-68630 | PE-68629 |
| DS3LIM-SN, TXC20153G | TX3051 | T3048 | — | TX3025 | PE-65967 | PE-65967 | T3001 | T3001 | PE-65966 | PE-65966 | PE-68629 | PE-68629 |
| E3LIM TXC-20163 | TX3051/TX3052 | T3049/T3048 | — | T3020 or TX3026 | PE-65968 | PE-65967 | T3002 | T3001 | PE-65969 | PE-65966 | PE-68630 | PE-68629 |

*L/W/H is measured on surface mount parts tip to tip (height includes wash area).

SMT - Surface Mount Package THT - Through Hole Package

TELECOM IC CROSS REFERENCE



IC CROSS REFERENCE: T1/E1/CEPT/ISDN-Pri FOR SINGLE & MULTIPOINT PORT ICs

| IC MFR. | IC PART NO. / COMMENT | DUAL SMT (BH) | | DUAL SMT (AN) | | DUAL SMT XFMR/CHOKE | SINGLE THT | | |
|---------------------------------------|----------------------------|---------------|----------|---------------|----------|---------------------|---------------|----------|----------|
| | | STD TEMP | EXT TEMP | STD TEMP | EXT TEMP | EXT TEMP | STANDARD TEMP | | |
| | | TX & RX | TX & RX | TX & RX | TX & RX | TX & RX | TX | RX | |
| Cirrus Logic (Crystal) | 61577 | T1 & E1 | PE-65861 | T1090 | PE-68861 | PE-68841 | T1207 | PE-65351 | PE-65351 |
| | 61304A/5A/535A/574A/75 | T1 | PE-65865 | T1076 | PE-68865 | PE-68825 | T1209 | PE-65388 | PE-65351 |
| | 61304A/5A/535A/574A/75 | 75 E1 | PE-65866 | T1092 | PE-65866 | PE-68826 | T1212 | PE-65389 | PE-65351 |
| | 61304A/5A/535A/574A/75 | 120 E1 | PE-65866 | T1092 | PE-65866 | PE-68826 | T1210 | PE-65389 | PE-65351 |
| | 61884 | T1/E1/J1 | PE-65861 | TX1188 | PE-68861 | PE-68841 | T1207 | PE-65351 | PE-65351 |
| | 61582, 61583 | | PE-65870 | T1093 | PE-68874 | PE-68874 | T1211 | PE-65388 | PE-65388 |
| | 61310, 61581 | | PE-68678 | T1094 | PE-68877 | PE-68877 | T1212 | PE-65351 | PE-64936 |
| | 61310, 61581 | Host | T1022 | T1077 | T1022 | — | — | PE-65351 | PE-65351 |
| | 61880, 61881 | | PE-65865 | T1076 | PE-68865 | PE-68825 | T1209 | PE-65388 | PE-65351 |
| | 61584/84A | IQ3 | PE-65861 | T1090 | PE-68861 | PE-68841 | T1207 | PE-65351 | PE-65351 |
| 61584/82/83/A | IQ5 | PE-65870 | T1093 | PE-68874 | PE-68874 | T1211 | PE-65388 | PE-65388 | |
| Exar | XRT5683A, XRT59L91 | | PE-65861 | T1090 | PE-68861 | PE-68841 | T1207 | PE-65415 | PE-65415 |
| | XRT5894/5897/597 | | PE-65861 | T1090 | PE-65861 | PE-68841 | T1207 | PE-65415 | PE-65415 |
| | XRTT5793/94 | | PE-65866 | T1092 | PE-68866 | PE-68826 | T1220 | PE-65389 | PE-64934 |
| | XRT81L27/82L24, 82D20 | | PE-65861 | T1090 | PE-68861 | PE-68841 | T1207 | PE-65415 | PE-65415 |
| | XRT83L30/4/8/314, 86L38 | | PE-68678 | T1094 | PE-68877 | PE-68877 | T1212 | PE-65415 | PE-64934 |
| | XRT83SL30/4/8/314 | | PE-68678 | T1094 | PE-68877 | PE-68877 | T1212 | PE-65415 | PE-64934 |
| | XRT86L30/32/34/38 | | PE-68678 | T1094 | PE-68877 | PE-68877 | T1212 | PE-65415 | PE-64934 |
| T5684, XRT7288, 82D20 | | PE-65862 | T1091 | PE-68862 | PE-68822 | T1208 | PE-64937 | PE-65351 | |
| IDT | 82V2048, 82V2058 | | TX1188 | TX1188 | PE-68861 | PE-68841 | T1207 | PE-65415 | PE-65415 |
| | 82V2044/48/48L/54/58 | | TX1188 | TX1188 | PE-68861 | PE-68841 | T1207 | PE-65415 | PE-65415 |
| | 82V2041E/2E/4E/8E | | PE-68678 | T1094 | PE-68877 | PE-68877 | T1212 | PE-65415 | PE-64934 |
| | 82V2081/2/4/8 | | PE-68678 | T1094 | PE-68877 | PE-68877 | T1212 | PE-65415 | PE-64934 |
| 82P2281/2/4/8 | | PE-68678 | T1094 | PE-68877 | PE-68877 | T1212 | PE-65415 | PE-64934 | |
| Infineon Technologies (Siemens) | PEB 2254/55 | E1/T1 & J1 | PE-68786 | T1095 | PE-68887 | PE-68897 | T1215 | — | — |
| | PEB 2254/55 | E1/T1 & J1 | T1023 | T1096 | PE-68887 | PE-68887 | T1215 | — | — |
| | PEB 22504, 22554, 2256 | 3.3V | T1144 | T1144 | — | — | T1219 | — | — |
| | PEB22554 | 75 E1 | T1146 | T1146 | — | — | — | — | — |
| Intel | LXT 300/301 | | PE-65861 | T1090 | PE-68861 | PE-68841 | T1207 | PE-65351 | PE-65351 |
| | LXT 304/305/307 | T1, E1 | PE-65861 | T1090 | PE-68861 | PE-68841 | T1207 | PE-65351 | PE-65351 |
| | LXT 304/305/307 | T1 | PE-65865 | T1076 | PE-68865 | PE-68825 | T1209 | PE-65388 | PE-65351 |
| | LXT 304/305/307 | 75E1, 120E1 | PE-65866 | T1092 | PE-68866 | PE-68826 | T1212 | PE-65389 | PE-65351 |
| | LXT 304/305/307 | DSX-1, D4 | T1122 | — | PE-68881 | PE-68881 | T1216 | PE-65558 | PE-65351 |
| | LXT 310/317/318 | | PE-68678 | T1094 | PE-68877 | PE-68877 | T1212 | PE-65351 | PE-64936 |
| | LXT 312/ 313/ 315 | | — | — | — | — | — | PE-64936 | PE-64936 |
| | LXT 331 | T1, E1 | PE-68678 | T1094 | PE-68877 | PE-68877 | T1212 | PE-65351 | PE-64936 |
| | LXT 331, LXT 332 | | PE-65861 | T1090 | PE-68861 | PE-68841 | T1207 | PE-65351 | PE-65351 |
| | LXT 331, LXT 332 | | T1122 | — | — | PE-68881 | T1216 | PE-65558 | PE-65351 |
| | LXT 331, LXT 332 | | PE-65865 | T1076 | PE-68865 | PE-68825 | T1209 | PE-65388 | PE-65351 |
| | LXT 334, LXT 335 | T1/E1 | PE-65861 | T1090 | PE-68861 | PE-68841 | T1207 | PE-65351 | PE-65351 |
| | LXT 334, LXT 335 | 120/75 E1 | PE-65862 | T1091 | PE-68862 | PE-68822 | T1218 | PE-65586 | PE-65351 |
| | LXT 334, LXT 335 | 75 E1 | PE-65866 | T1092 | PE-68866 | PE-68826 | — | PE-65389 | PE-65351 |
| | LXT 334, LXT 335 | | T1022 | T1077 | — | — | — | T1054 | PE-64936 |
| | LXT 336 | | PE-65861 | T1090 | PE-68828 | PE-68828 | T1220 | — | PE-65351 |
| | LXT 350, LXT 351, LXT 359 | T1, E1 | PE-68678 | T1094 | PE-68877 | PE-68877 | T1212 | PE-65351 | PE-64936 |
| | LXT 350, LXT 351 | | PE-65865 | T1076 | PE-68865 | PE-68825 | T1209 | PE-65388 | PE-65351 |
| | LXT 350, LXT 351 | 120 E1 | T1122 | — | — | PE-68881 | T1216 | PE-65558 | PE-65351 |
| | LXT 360/361/362/363 | T1, E1 | PE-68678 | T1094 | PE-68877 | PE-68877 | T1212 | PE-65351 | PE-64936 |
| | LXT 360/361/362/363 | | PE-65865 | T1076 | PE-68865 | PE-68825 | T1209 | PE-65388 | PE-65351 |
| | LXT 360, LXT361 | 120 E1 | T1122 | — | — | PE-68881 | T1216 | PE-65558 | PE-65351 |
| | LXT 380/381/384/386/388 | T1/E1 | PE-68678 | T1094 | PE-68877 | PE-68877 | T1212 | PE-65351 | PE-64936 |
| LXT 380/381/384/386/388 | T1/E1 | PE-65861 | T1090 | PE-68861 | PE-68841 | — | PE-65351 | PE-65351 | |
| LXT 3104, LXT 3108 | | PE-65861 | T1090 | PE-68861 | PE-68841 | T1220 | PE-64936 | PE-64936 | |
| LXT 3104, LXT 3108 | | TX1099 | TX1099 | — | — | — | — | — | |
| Agere (Lucent) | T7288, T290A | CEPT | PE-65862 | T1091 | PE-68862 | PE-68822 | T1208 | PE-65586 | PE-65415 |
| | T7289A | DS1 | PE-65865 | T1076 | PE-68865 | PE-68825 | T1209 | PE-65379 | PE-65351 |
| | T7630, T7688, T7690, T7698 | CEPT | — | — | PE-68884 | PE-68884 | T1214 | PE-65586 | PE-65586 |
| | T7630, T7689, T7690, T7698 | DS1 | PE-65870 | T1093 | PE-68874 | PE-68874 | T1211 | PE-65379 | PE-65379 |
| | T7693, T7697 | CEPT | T1137 | TX1287 | — | — | T1217 | — | — |
| | TLIU04C1 | DS1 | PE-65870 | T1093 | PE-68874 | PE-68874 | T1211 | PE-65379 | PE-65379 |
| | TLIU04C1 | CEPT | — | — | PE-68884 | PE-68884 | T1214 | PE-65586 | PE-65586 |
| Maxim (Dallas) | DS2196, 2155, 2149, 21448 | | PE-68678 | T1094 | TX1277 | TX1277 | T1212 | PE-65351 | PE-64936 |
| | DS2151/2152/2153/2154 | | PE-65865 | T1076 | PE-68865 | PE-68825 | T1213 | PE-65388 | PE-64936 |
| | DS2151/2152/2153/2154 | | T1136 | T1091 | PE-68862 | PE-68822 | T1218 | PE-65586 | PE-64936 |
| | DS2148/Q48/Q348/Q349/Q59 | 3V | PE-68678 | T1094 | TX1277 | TX1277 | T1212 | PE-65351 | PE-64936 |
| | DS2148/Q48 | 5V | T1136 | T1091 | PE-68862 | PE-68822 | T1218 | PE-65586 | PE-64936 |
| | DS21352/Q352, DS21354/Q354 | | PE-68678 | T1094 | TX1277 | TX1277 | T1212 | PE-65351 | PE-64936 |
| | DS21552/Q552, DS21554/Q554 | | PE-65865 | T1076 | PE-68865 | PE-68825 | T1213 | PE-65388 | PE-64936 |
| | DS21552/Q552, DS21554/Q554 | | T1136 | T1091 | PE-68862 | PE-68822 | T1218 | PE-65586 | PE-64936 |
| | DS26502/3 | | PE-68678 | T1094 | TX1277 | TX1277 | T1212 | PE-65351 | PE-64936 |
| | DS21455/8 | | PE-68678 | T1094 | TX1277 | TX1277 | T1212 | PE-65351 | PE-64936 |
| | DS26528 | | PE-68678 | T1094 | TX1277 | TX1277 | T1212 | PE-65351 | PE-64936 |
| Mindspeed | BT8510 | T1/E1 | PE-65866 | T1092 | PE-68866 | PE-68826 | T1212/T1210 | PE-65389 | PE-65351 |
| | BT8510 | T1/E1 | T1021 | T1092 | T1021 | PE-68826 | T1212/T1210 | PE-65389 | PE-65351 |
| | CN8380/28380 | | — | — | — | — | — | — | — |
| | BT8370/5/6 | Better RI | T1190 | T1091 | PE-68862 | PE-68822 | T1218 | PE-64937 | PE-64936 |
| | BT8370/5/6 | Low Power | PE-65865 | T1076 | PE-68825 | PE-68825 | T1213 | PE-65388 | PE-64936 |
| PMC-Sierra | PM4341/6341/4314 | | PE-65862 | T1091 | PE-68862 | PE-68822 | T1208 | PE-64937 | PE-65351 |
| | PM4318/4319 | | PE-65861 | T1090 | PE-68861 | PE-68841 | T1207 | PE-65351 | PE-65351 |
| | PM4323/4325 | | PE-65861 | T1090 | PE-68861 | PE-68841 | T1207 | PE-65351 | PE-65351 |
| | PM4329 | | — | — | — | — | — | — | — |
| | PM4351/4354 | COMET | T1137 | TX1287 | — | — | T1217 | — | — |
| Zarlink (Mitel) | MT9071, MT9076 | | T1137 | TX1287 | — | — | T1217 | — | — |
| | MT9076, MT9075 | | T1144 | T1144 | — | — | T1219 | — | — |
| | MT9074, MT9075 | | PE-68678 | T1094 | PE-68877 | PE-68877 | T1212 | PE-65351 | PE-64934 |
| | MT9074, MT9075 | | — | — | — | — | — | — | — |

Read across →

