

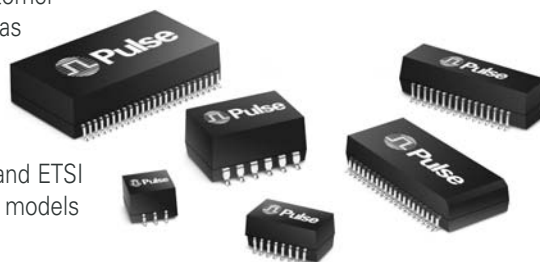
TELECOMMUNICATIONS PRODUCTS



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 ¹ | 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 | T637 |
| 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 | Part Number | RoHS-6 Part Number | Turns Ratio | Package L/W/H (in.)* | Data Sheet |
|--|--------------------|-------------------------|----------------------|------------|---|--------------------|-------------------------|----------------------|------------|
| DUAL TRANSFORMERS (continued) | | | | | 3.0 kV Isolation – Standard Temperature Range, SMT (continued) | | | | |
| 1.5 kV Isolation, Extended Temperature Range, BH Package, SMT | | | | | | | | | |
| T1090 | T1090NL | 1CT:2CT & 1CT:2CT | .505 / .375 / .245 | T608 | T1044 | — | 1CT:2CT & 1CT:1.36CT | .950 / .745 / .395 | T617 |
| T1091 | T1091NL | 1CT:2CT & 1:1.36CT | .505 / .375 / .245 | T608 | T1045 | — | 1CT:2CT & 1CT:2CT | .950 / .745 / .395 | T617 |
| T1076 | T1076NL | 1:1.15CT & 1CT:2CT | .505 / .375 / .245 | T608 | T1047 | — | 1CT:2.3CT & 1CT:2CT | .950 / .745 / .395 | T617 |
| T1092 | T1092NL | 1:1/1.26 & 1CT:2CT | .505 / .375 / .245 | T608 | T1049 | — | 1CT:1/1.26 & 1CT:2CT | .950 / .745 / .395 | T617 |
| T1093 | T1093NL | 1CT:1.15CT & 1CT:1.15CT | .505 / .375 / .245 | T608 | T1082 | — | 1CT:2.42CT & 1CT:2.42CT | .950 / .745 / .395 | T617 |
| T1077 | T1077NL | 1CT:1CT & 1CT:1.5CT | .505 / .375 / .245 | T608 | T1308 | — | 1CT:2.4CT & 1CT:1CT | .675 / .600 / .340 | T666 |
| T1094 | T1094NL | 1CT:1CT & 1CT:2CT | .505 / .375 / .245 | T608 | DUAL TRANSFORMER/CHOKE INTERFACE MODULES | | | | |
| T1144 | T1144NL | 1CT:1CT & 1CT:2.4CT | .505 / .375 / .245 | T608 | 1.5 kV Isolation, Extended Temperature Range, SMT | | | | |
| T1095 | T1095NL | 1CT:1.41CT & 1CT:1.41CT | .505 / .375 / .245 | T608 | T1207 | T1207NL | 1CT:2CT & 1CT:2CT | .675 / .600 / .340 | T660 |
| T1096 | T1096NL | 1CT:1.41CT & 1CT:1.41CT | .505 / .375 / .245 | T608 | T1208 | T1208NL | 1CT:2CT & 1CT:1.36CT | .675 / .600 / .340 | T660 |
| T1097 | T1097NL | 1CT:1CT & 1CT:1.67CT | .505 / .375 / .245 | T608 | T1209 | T1209NL | 1CT:1.15CT & 1CT:2CT | .675 / .600 / .340 | T660 |
| T1146 | T1146NL | 1:2/2.4 & 1:0.79/1 | .505 / .375 / .245 | T608 | T1210 | T1210NL | 1CT:1.26CT & 1CT:2CT | .675 / .600 / .340 | T660 |
| TX1088 | TX1088NL | 1CT:2CT & 1CT:2.42CT | .505 / .375 / .245 | T608 | T1211 | T1211NL | 1CT:1.15CT & 1CT:1.15CT | .675 / .600 / .340 | T660 |
| TX1089 | TX1089NL | 1CT:1CT & 1CT:1CT | .505 / .375 / .245 | T608 | T1212 | T1212NL | 1CT:1CT & 1CT:2CT | .675 / .600 / .340 | T660 |
| TX1099 | TX1099NL | 1CT:1:0.8 & 1CT:1:0.8 | .505 / .375 / .245 | T608 | T1213 | T1213NL | 1CT:1.15CT & 1CT:1CT | .675 / .600 / .340 | T660 |
| TX1287 | TX1287NL | 1CT:2.42CT & 1CT:2.42CT | .505 / .375 / .245 | T608 | T1214 | T1214NL | 1CT:1.36CT & 1CT:1.36CT | .675 / .600 / .340 | T660 |
| TX1317 | TX1317NL | 1:2CT & 1:2CS | .505 / .375 / .245 | T608 | T1215 | T1215NL | 1CT:1.41CT & 1CT:1.41CT | .675 / .600 / .340 | T660 |
| TX1186 | TX1186NL | 1CT:1.58:2 & 1:1.65:2 | .505 / .375 / .245 | T608 | T1216 | T1216NL | 1CT:2.3CT & 1CT:2CT | .675 / .600 / .340 | T660 |
| TX1187 | TX1187NL | 1CT:2CT & 1:1 | .505 / .375 / .245 | T608 | T1217 | T1217NL | 1CT:2.42CT & 1CT:2.42CT | .675 / .600 / .340 | T660 |
| TX1188 | TX1188NL | 1CT:2CT & 1CT:2CT | .505 / .375 / .245 | T608 | T1218 | T1218NL | 1CT:1CT & 1CT:1.36CT | .675 / .600 / .340 | T660 |
| TX1189 | TX1189NL | 1:1.36CT & 1:2CT | .505 / .375 / .245 | T608 | T1219 | T1219NL | 1CT:2.4CT & 1CT:1CT | .675 / .600 / .340 | T660 |
| TX1467 | TX1467NL | 1CT:1:1 & 1CT:1:1 | .505 / .375 / .245 | T608 | T1220 | T1220NL | 1CT:1CT & 1CT:1CT | .675 / .600 / .340 | T660 |
| 1.5 kV Isolation, Standard Temperature Range, ANTE Package, SMT | | | | | QUAD TRANSFORMER/CHOKE INTERFACE MODULES | | | | |
| T1131 | T1131NL | 1CT:1 & 1:1.36CT | .675 / .600 / .340 | T608 | 1.5 kV Isolation, Extended Temperature Range, SMT | | | | |
| PE-68861 | PE-68861NL | 1CT:2CT & 1CT:2CT | .675 / .600 / .340 | T608 | T1176 | T1176NL | 1CT:2.4CT & 1CT:1CT | .690 / .630 / .225 | T662 |
| PE-68862 | PE-68862NL | 1CT:2CT & 1:1.36CT | .675 / .600 / .340 | T608 | TX1192 | TX1192NL | 1CT:2.42CT & 1CT:2.42CT | .690 / .630 / .225 | T662 |
| PE-68863 | PE-68863NL | 1:2CT & 1:1.14CT | .675 / .600 / .340 | T608 | TX1193 | TX1193NL | 1CT:2CT & 1CT:1CT | .690 / .630 / .225 | T662 |
| PE-68864 | PE-68864NL | 1CT:2CT & 1:1 | .675 / .600 / .340 | T608 | TX1194 | TX1194NL | 1CT:1.15CT & 1CT:1.15CT | .690 / .630 / .225 | T662 |
| PE-68865 | PE-68865NL | 1:1.15CT & 1CT:2CT | .675 / .600 / .340 | T608 | TX1195 | TX1195NL | 1CT:1.41CT & 1CT:1.41CT | .690 / .630 / .225 | T662 |
| PE-68866 | PE-68866NL | 1:1/1.26 & 1:2CT | .675 / .600 / .340 | T608 | TX1196 | TX1196NL | 1CT:2CT & 1CT:2CT | .690 / .630 / .225 | T662 |
| PE-68869 | PE-68869NL | 1CT:2CT & 1:1.08CT | .675 / .600 / .340 | T608 | TX1197 | TX1197NL | 1CT:2CT & 1CT:2CT | .690 / .630 / .225 | T662 |
| PE-68836 | PE-68836NL | 1:1/1.26 & 1:1/1.26 | .675 / .600 / .340 | T608 | TX1198 | TX1198NL | 1CT:2.3CT & 1CT:1CT | .690 / .630 / .225 | T662 |
| 1.5 kV Isolation, Extended Temperature Range, ANTE Package, SMT | | | | | QUAD TRANSFORMERS (four transformers per package) | | | | |
| PE-68822 | PE-68822NL | 1CT:2CT & 1:1.36CT | .675 / .600 / .340 | T608 | 1.5 kV Isolation, Extended Temperature Range, SMT | | | | |
| PE-68825 | PE-68825NL | 1:1.15CT & 1CT:2CT | .675 / .600 / .340 | T608 | TX1321 | TX1321NL | 1CT:2.4CT & 1CT:1CT | .690 / .630 / .225 | T662 |
| PE-68826 | PE-68826NL | 1:1/1.26 & 1:2CT | .675 / .600 / .340 | T608 | TX1322 | TX1322NL | 1CT:2.42CT & 1CT:2.42CT | .690 / .630 / .225 | T662 |
| PE-68827 | PE-68827NL | 1:1CT & 2:1 | .675 / .600 / .340 | T608 | TX1323 | TX1323NL | 1CT:2CT & 1CT:1CT | .690 / .630 / .225 | T662 |
| PE-68828 | PE-68828NL | 1CT:1CT & 1CT:1CT | .675 / .600 / .340 | T608 | TX1324 | TX1324NL | 1CT:1.15CT & 1CT:1.15CT | .690 / .630 / .225 | T662 |
| PE-68841 | PE-68841NL | 1CT:2CT & 1CT:2CT | .675 / .600 / .340 | T608 | TX1325 | TX1325NL | 1CT:1.41CT & 1CT:1.41CT | .690 / .630 / .225 | T662 |
| PE-68874 | PE-68874NL | 1CT:1.15CT & 1CT:1.15CT | .675 / .600 / .340 | T608 | TX1326 | TX1326NL | 1CT:2CT & 1CT:2CT | .690 / .630 / .225 | T662 |
| PE-68877 | PE-68877NL | 1CT:1CT & 1CT:2CT | .675 / .600 / .340 | T608 | TX1327 | TX1327NL | 1CT:2CT & 1CT:2CT | .690 / .630 / .225 | T662 |
| PE-68881 | PE-68881NL | 1CT:2.3CT & 1CT:2CT | .675 / .600 / .340 | T608 | TX1328 | TX1328NL | 1CT:2.3CT & 1CT:1CT | .690 / .630 / .225 | T662 |
| PE-68882 | PE-68882NL | 1:1.15CT & 1CT:1CT | .675 / .600 / .340 | T608 | TX1329 | TX1329NL | 1CT:1.36CT & 1CT:2CT | .690 / .630 / .225 | T662 |
| PE-68884 | PE-68884NL | 1CT:1.36CT & 1CT:1.36CT | .675 / .600 / .340 | T608 | TX1330 | TX1330NL | 1CT:1.36CT & 1CT:1CT | .690 / .630 / .225 | T662 |
| PE-68887 | PE-68887NL | 1CT:1.41CT & 1CT:1.41CT | .675 / .600 / .340 | T608 | TX1331 | TX1331NL | 1CT:1.15CT & 1CT:2CT | .690 / .630 / .225 | T662 |
| TX1277 | TX1277NL | 1CT:1CT & 1CT:2CT | .675 / .600 / .340 | T608 | QUAD TRANSFORMERS (four transformers per package) | | | | |
| 3.0 kV Isolation – Standard Temperature Range, SMT | | | | | 1.5 kV Isolation, Standard Temperature Range, SMT | | | | |
| T1030 | — | 1CT:1CT & 1CT:1CT | .950 / .745 / .395 | T617 | T1001 | T1001NL | 1:1 & 1:1.36 | 1.000 / .425 / .295 | T615 |
| T1081 | — | 1CT:1CT & 1CT:1.5CT | .950 / .745 / .395 | T617 | T1005 | T1005NL | 1:1.267 & 1:1.58 | 1.000 / .425 / .295 | T615 |
| T1031 | — | 1CT:1CT & 1CT:2CT | .950 / .745 / .395 | T617 | T1006 | T1006NL | 1:1 & 1:2CT | 1.000 / .425 / .295 | T615 |
| T1032 | — | 1CT:1.15CT & 1CT:1CT | .950 / .745 / .395 | T617 | T1007 | T1007NL | 1:1.15 | 1.000 / .425 / .295 | T615 |
| T1033 | — | 1CT:1.15CT & 1CT:1.15CT | .950 / .745 / .395 | T617 | T1008 | T1008NL | 1:1.364 & 1:2 | 1.000 / .425 / .295 | T615 |
| T1034 | — | 1CT:1.15CT & 1CT:2CT | .950 / .745 / .395 | T617 | T1009 | T1009NL | 1:1 & 1:1.265 | 1.000 / .425 / .295 | T615 |
| T1035 | — | 1CS:1CS & 1CS:1.36CS | .950 / .745 / .395 | T617 | T1010 | T1010NL | 1:1.36CT | 1.000 / .425 / .295 | T615 |
| T1038 | — | 1CT:1CT & 1CT:1.36CT | .950 / .745 / .395 | T617 | T1016 | T1016NL | 1:1.15 & 1:2 | 1.000 / .425 / .295 | T615 |
| T1036 | — | 1CT:1.36CT & 1CT:1.36CT | .950 / .745 / .395 | T617 | T1017 | T1017NL | 1:2.3 & 1:2 | 1.000 / .425 / .295 | T615 |
| 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 | | | | | |

*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 |
|-------------|--------------------|----------------|----------------|----------------------|------------|
| 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.

SMT - Surface Mount Package THT - Through Hole Package

*L/W/H is measured on surface mount parts tip to tip (height includes 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 | 1:1.4:1CT | 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

| | | | | |
|----------|----------|-----|--------------------|------|
| PE-68629 | 1:1 | 40 | .350 / .500 / .250 | T606 |
| PE-65966 | 1:1 | 40 | .300 / .280 / .250 | T606 |
| PE-65663 | 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 |

TELECOMMUNICATIONS PRODUCTS



TRANSFORMERS, TRANSFORMER MODULES

ISDN U-Interface ¹

| Part Number | ISDN U-Interface ¹ | | | 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/.900/1.050 | 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 | | | | |
| PCMCIA 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 | Octal | 6 Xfmrs | Dual SMT | Single SMT | | | | Single THT | | Single THT 3 kVRMS | |
|------------------------------------|---------------|-------------|-----------------|-----------------|----------------|----------|----------------|----------|------------|----------|-----------------------|----------|
| | Ext. Temp. | Xfmrs | Ext. Temp. | Ext. Temp. | Standard Temp. | | Extended Temp. | | TX | RX | TX | RX |
| | TX & RX | TX & RX | 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 & MULTI-PORT 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 |
| | | XRT5894/5897/5997 | | 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 |
| XRT81L2782L24,82D20 | | | 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-68887 | 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 | |
| | LX T 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 | 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 | 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 | 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/Q348/349/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 Rl | T1190 | T1091 | PE-68862 | PE-68822 | T1218 | PE-64937 | PE-64936 | |
| BT8370/5/6 | Low Power | PE-65865 | T1076 | — | 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 | |

Read across →

TELECOM IC CROSS REFERENCE



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

| SINGLE THT | | DUAL THT | | REINFORCED 3 kVRMS | | | QUAD SMT | | OCTAL SMT | PROTECTION MODULES | | |
|---------------|----------|----------|----------|--------------------|----------|----------|---------------|-------|-----------|--------------------|----------|----------|
| EXTENDED TEMP | | STD TEMP | EXT TEMP | STANDARD TEMP | | DUAL SMT | STANDARD TEMP | | STD TEMP | EXT TEMP | STD TEMP | EXT TEMP |
| TX | RX | TX | RX | TX | RX | TX & RX | TX | RX | TX & RX | TX & RX | TX & RX | TX & RX |
| PE-65771 | PE-65771 | PE-64951 | — | PE-65835 | PE-65835 | T1045 | T1006 | T1006 | T1065 | T1105 | — | — |
| PE-65770 | PE-65771 | PE-65565 | PE-65567 | PE-65838 | PE-65835 | T1034 | T1007 | T1006 | T1070 | T1110 | — | — |
| PE-68664 | PE-65771 | PE-65566 | PE-65568 | PE-65839 | PE-65835 | T1049 | T1009 | T1006 | T1068 | T1108 | — | — |
| PE-68664 | PE-65771 | PE-65566 | PE-65568 | PE-65839 | PE-65835 | T1049 | T1009 | T1006 | T1068 | T1108 | — | — |
| PE-65771 | PE-65771 | PE-64951 | — | PE-65838 | PE-65835 | T1045 | T1006 | T1006 | T1073 | T1113 | — | — |
| PE-65770 | PE-65770 | — | — | PE-65838 | PE-65838 | T1033 | T1007 | T1007 | T1064 | T1104 | — | — |
| PE-65771 | — | PE-64951 | PE-65568 | PE-65835 | PE-65835 | T1031 | T1006 | T1006 | T1068 | T1108 | — | — |
| PE-65771 | PE-65771 | PE-64951 | — | PE-65835 | PE-65835 | T1081 | — | — | — | — | — | — |
| PE-65770 | PE-65771 | PE-65565 | PE-65567 | PE-65838 | PE-65835 | T1034 | T1007 | T1006 | T1070 | T1110 | — | — |
| PE-65771 | PE-65771 | PE-64951 | — | PE-65835 | PE-65835 | T1045 | T1006 | T1006 | T1065 | T1105 | — | — |
| PE-65770 | PE-65770 | — | — | PE-65838 | PE-65838 | T1033 | T1007 | T1007 | T1064 | T1104 | — | — |
| PE-65771 | PE-65771 | PE-64951 | — | PE-65835 | PE-65835 | T1045 | T1006 | T1006 | T1065 | T1105 | — | — |
| PE-65771 | PE-65771 | PE-64951 | — | PE-65835 | PE-65835 | T1045 | T1006 | T1006 | T1065 | T1105 | — | — |
| PE-68664 | PE-65778 | PE-65566 | PE-65568 | PE-65839 | PE-65834 | T1049 | T1009 | T1009 | T1071 | T1111 | — | — |
| PE-65771 | PE-65771 | PE-64951 | — | PE-65835 | PE-65835 | T1045 | T1006 | T1006 | T1065 | T1105 | — | — |
| PE-65771 | PE-65778 | PE-64951 | — | PE-65835 | PE-65834 | T1031 | T1006 | T1006 | T1068 | T1108 | — | — |
| PE-65771 | PE-65778 | PE-64951 | — | PE-65835 | PE-65834 | T1031 | T1006 | T1006 | T1068 | T1108 | — | — |
| PE-65771 | PE-65778 | PE-64951 | — | PE-65835 | PE-65834 | T1031 | T1006 | T1006 | T1068 | T1108 | — | — |
| PE-65771 | PE-65778 | PE-64951 | — | PE-65835 | PE-65834 | T1031 | T1006 | T1006 | T1068 | T1108 | — | — |
| PE-65340 | PE-65771 | PE-64952 | PE-65774 | PE-65837 | PE-65835 | T1044 | T1008 | T1008 | T1067 | T1107 | — | — |
| PE-65771 | PE-65771 | PE-64951 | — | PE-65835 | PE-65835 | T1045 | T1006 | T1006 | T1124 | T1114 | — | — |
| PE-65771 | PE-65771 | PE-64951 | — | PE-65835 | PE-65835 | T1045 | T1006 | T1006 | T1124 | T1114 | — | — |
| PE-65771 | PE-65778 | PE-64951 | — | PE-65835 | PE-65834 | T1031 | T1006 | T1006 | T1068 | T1108 | — | — |
| PE-65771 | PE-65778 | PE-64951 | — | PE-65835 | PE-65834 | T1031 | T1006 | T1006 | T1068 | T1108 | — | — |
| PE-65771 | PE-65778 | PE-64951 | — | PE-65835 | PE-65834 | T1031 | T1006 | T1006 | T1068 | T1108 | — | — |
| — | — | — | — | — | PE-68788 | PE-68788 | T1037 | — | T1069 | T1109 | — | — |
| — | — | — | — | — | PE-68788 | PE-68788 | T1080 | — | T1069 | T1109 | — | — |
| — | — | — | — | — | — | — | — | — | T1142 | T1231 | — | TX9031 |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| PE-65771 | PE-65771 | PE-64951 | — | PE-65835 | PE-65835 | T1045 | T1006 | T1006 | T1065 | T1105 | — | — |
| PE-65771 | PE-65771 | PE-64951 | — | PE-65835 | PE-65835 | T1045 | T1006 | T1006 | T1065 | T1105 | — | — |
| PE-65770 | PE-65771 | PE-65565 | PE-65567 | PE-65838 | PE-65835 | T1034 | T1016 | T1016 | T1070 | T1110 | — | — |
| PE-68664 | PE-65771 | PE-65566 | PE-65568 | PE-65839 | PE-65835 | T1049 | T1009 | T1009 | T1071 | T1111 | — | — |
| — | — | — | — | — | — | T1047 | — | — | — | — | — | — |
| PE-65771 | PE-65778 | PE-64954 | — | PE-65835 | PE-65834 | T1031 | T1006 | T1006 | T1068 | T1108 | — | — |
| PE-68600 | PE-65778 | — | PE-64950 | PE-65836 | PE-65834 | — | — | — | — | — | — | — |
| PE-65771 | PE-65778 | PE-64954 | — | PE-65835 | PE-65834 | T1031 | T1006 | T1006 | T1068 | T1108 | — | — |
| PE-65771 | PE-65771 | PE-64951 | — | PE-65835 | PE-65835 | T1045 | T1006 | T1006 | T1065 | T1105 | — | — |
| — | — | — | — | — | — | T1047 | — | — | — | — | — | — |
| PE-65770 | PE-65771 | PE-65565 | PE-65567 | PE-65838 | PE-65835 | T1034 | T1016 | T1016 | T1070 | T1110 | — | — |
| PE-65771 | PE-65771 | PE-64951 | — | PE-65835 | PE-65835 | T1045 | T1006 | T1006 | T1065 | T1105 | — | — |
| PE-65340 | PE-65771 | PE-64952 | PE-65771 | PE-65832 | PE-65835 | T1035 | T1001 | T1001 | T1067 | T1107 | — | — |
| PE-68664 | PE-65771 | PE-65566 | PE-65568 | PE-65839 | PE-65835 | T1049 | T1009 | T1009 | T1071 | T1111 | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| PE-65771 | PE-65778 | PE-64951 | — | PE-65835 | PE-65835 | T1030 | — | T1006 | T1065 | T1105 | — | — |
| PE-65771 | PE-65778 | PE-64954 | — | PE-65835 | PE-65834 | T1031 | T1006 | T1006 | T1068 | T1108 | — | — |
| PE-65770 | PE-65771 | PE-65565 | PE-65567 | PE-65838 | PE-65835 | T1034 | T1016 | T1016 | T1070 | T1110 | — | — |
| — | — | — | — | — | — | T1047 | — | — | — | — | — | — |
| PE-65771 | PE-65778 | PE-64954 | — | PE-65835 | PE-65834 | T1031 | T1006 | T1006 | T1068 | T1108 | — | — |
| PE-65770 | PE-65771 | PE-65565 | PE-65567 | PE-65838 | PE-65835 | T1034 | T1016 | T1016 | T1070 | T1110 | — | — |
| — | — | PE-65565 | — | — | — | T1047 | — | — | — | — | — | — |
| PE-65771 | PE-65778 | PE-64954 | — | PE-65835 | PE-65834 | T1031 | T1006 | T1006 | T1068 | T1108 | — | — |
| PE-65771 | PE-65771 | PE-64951 | — | PE-65835 | PE-65835 | T1045 | T1006 | T1006 | T1124 | T1114 | T9030 | T9030 |
| PE-65778 | PE-65778 | PE-64951 | — | PE-65835 | PE-65835 | T1030 | T1006 | T1006 | T1068 | T1108 | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — |
| PE-65340 | PE-65771 | PE-64952 | PE-65774 | PE-65832 | PE-65835 | T1044 | T1008 | T1008 | T1067 | T1107 | — | — |
| PE-65770 | PE-65771 | PE-65565 | PE-65567 | PE-65838 | PE-65835 | T1034 | T1007 | T1006 | T1070 | T1110 | — | — |
| PE-65340 | PE-65340 | — | — | PE-65832 | PE-65832 | T1036 | T1010 | T1010 | T1063 | T1103 | — | — |
| PE-65770 | PE-65770 | — | — | PE-65838 | PE-65838 | T1033 | T1007 | T1007 | T1064 | T1104 | — | — |
| — | — | — | — | — | — | — | — | — | — | T1180 | — | — |
| PE-65770 | PE-65770 | — | — | PE-65838 | PE-65838 | T1033 | T1007 | T1007 | T1064 | T1104 | — | — |
| PE-65340 | PE-65340 | — | — | PE-65832 | PE-65832 | T1036 | T1010 | T1010 | T1063 | T1103 | — | — |
| PE-65771 | PE-65778 | PE-64951 | PE-65568 | PE-65838 | PE-65838 | T1031 | T1006 | T1006 | T1068 | T1108 | — | — |
| PE-65770 | PE-65778 | PE-65565 | PE-65567 | PE-65838 | PE-65834 | T1032 | T1007 | T1006 | T1070 | T1110 | — | — |
| PE-65340 | PE-65778 | PE-64952 | PE-65774 | PE-65832 | PE-65834 | T1038 | T1001 | T1001 | TX1292 | TX1292 | — | — |
| PE-65771 | PE-65778 | PE-64951 | PE-65568 | PE-65838 | PE-65838 | T1031 | T1006 | T1006 | T1068 | T1108 | — | — |
| PE-65340 | PE-65778 | PE-65565 | PE-65567 | PE-65838 | PE-65834 | T1032 | T1007 | T1006 | T1070 | T1110 | — | — |
| PE-65771 | PE-65778 | PE-64951 | PE-65568 | PE-65838 | PE-65834 | T1038 | T1001 | T1001 | TX1292 | TX1292 | — | — |
| PE-65771 | PE-65778 | PE-64951 | PE-65568 | PE-65838 | PE-65838 | T1031 | T1006 | T1006 | T1068 | T1108 | — | — |
| PE-65771 | PE-65778 | PE-64951 | PE-65568 | PE-65838 | PE-65838 | T1031 | T1006 | T1006 | T1068 | T1108 | — | — |
| PE-65771 | PE-65778 | PE-64951 | PE-65568 | PE-65838 | PE-65838 | T1031 | T1006 | T1006 | T1068 | T1108 | — | — |
| PE-65771 | PE-65778 | PE-64951 | PE-65568 | PE-65838 | PE-65838 | T1031 | T1006 | T1006 | T1068 | T1108 | — | — |
| PE-68664 | PE-65771 | PE-65566 | PE-65568 | PE-65839 | PE-65835 | T1049 | T1009 | T1006 | T1071 | T1111 | — | — |
| PE-68664 | PE-65771 | PE-65566 | PE-65568 | PE-65839 | PE-65835 | T1049 | T1009 | T1006 | T1071 | T1111 | — | — |
| — | — | — | — | — | — | — | — | T1006 | T1071 | T1111 | — | — |
| PE-65340 | PE-65771 | PE-64952 | PE-65774 | PE-65832 | PE-65834 | T1038 | T1006 | T1001 | T1067 | T1107 | — | — |
| PE-65770 | PE-65771 | PE-65565 | PE-65567 | PE-65838 | PE-65834 | T1032 | T1006 | T1007 | T1070 | T1110 | — | — |
| PE-65340 | PE-65771 | PE-64952 | PE-65774 | PE-65832 | PE-65835 | T1044 | T1008 | T1008 | T1067 | T1107 | — | — |
| PE-65771 | PE-65771 | PE-64951 | — | PE-65835 | PE-65835 | T1045 | T1006 | T1006 | T1073 | T1113 | — | TX9023 |
| PE-65771 | PE-65771 | PE-64951 | — | PE-65835 | PE-65835 | T1045 | T1006 | T1006 | T1073 | T1113 | — | TX9023 |
| — | — | — | — | — | — | — | — | — | — | — | — | TX9027 |
| — | — | — | — | — | — | T1082 | — | — | — | — | — | TX9020 |
| — | — | — | — | — | — | — | — | — | T1180 | TX1299 | T9021 | — |
| — | — | — | — | — | — | — | — | — | T1180 | — | — | — |
| PE-65771 | PE-65778 | PE-64954 | PE-65568 | PE-65835 | PE-65834 | T1031 | — | — | T1142 | T1231 | — | — |
| — | — | — | — | — | — | — | — | — | T1068 | T1108 | — | — |

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