

# T1/CEPT/ISDN - PRI Carrier Interface Transformers

## EPA1155-X

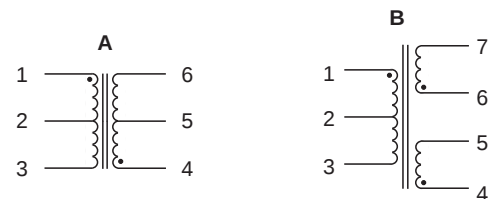
- UL1459 Approved, File # E132261 •
- Single Low Profile Packages •
- Hipot 2000 Vrms •
- Meets CCITT 1.430 Four Wire "S" Interface •
- Longitudinal Balance (10 KHz - 300 KHz) -60 dB Min. •

### Electrical Parameters @ 25°C

| PCA Part Number | OCL (mH Min.) | Interwinding Capacitance (pF Max.) | Leakage Inductance (μH Max.) | Turns Ratio (±5%) | DCR (Ω Typ.) |     | Package & Schematic |
|-----------------|---------------|------------------------------------|------------------------------|-------------------|--------------|-----|---------------------|
| EPA1155-1       | 22            | 100                                | 5                            | 1:1               | 2.5          | 2.5 | A                   |
| EPA1155-2       | 22            | 100                                | 8                            | 1:1.8             | 2.5          | 4.5 | B                   |
| EPA1155-3       | 22            | 100                                | 8                            | 1:2               | 2.5          | 5.0 | A                   |
| EPA1155-4       | 22            | 100                                | 12                           | 1:2.5             | 2.5          | 6.0 | B                   |
| EPA1155-5       | 22            | 100                                | 30                           | 1:2               | 2.5          | 5.0 | A                   |
| EPA1155-12      | 22            | 100                                | 11                           | 1:2               | 2.5          | 5.0 | A                   |

| I.C. Manufacturer | I.C. Part Number | PCA Part Number |                |
|-------------------|------------------|-----------------|----------------|
|                   |                  | Transmit        | Receive        |
| Intel             | 29C53            | EPA1155-2       | EPA1155-4      |
| Mitel             | MT8930           | EPA1155-3       | EPA1155-3      |
| Motorola          | MC145174         | EPA1155-1       | EPA1155-1      |
| Motorola          | MC145175         | EPA1155-1       | EPA1155-1      |
| National          | TP3420           | EPA1155-3       | EPA1155-1      |
| Siemens           | PEB2080          | EPA1155-3       | EPA1155-3      |
| SGS Thompson      | 5420             | EPA1155-3       | EPA1155-1 & -3 |

### Schematics



### Package A Dimensions

| Dim. | (Inches) |      |      | (Millimeters) |       |       |
|------|----------|------|------|---------------|-------|-------|
|      | Min.     | Max. | Nom. | Min.          | Max.  | Nom.  |
| A    | .540     | .560 | .550 | 13.72         | 14.22 | 13.97 |
| B    | .540     | .560 | .550 | 13.72         | 14.22 | 13.97 |
| C    | .380     | .400 | .390 | 9.65          | 10.16 | 9.91  |
| D    | ---      | ---  | .400 | ---           | ---   | 10.16 |
| E    | .025     | .035 | .030 | .635          | .889  | .762  |
| F    | ---      | ---  | .200 | ---           | ---   | .508  |
| G    | ---      | ---  | .400 | ---           | ---   | .400  |
| H    | .017     | .023 | .020 | .432          | .584  | .508  |
| K    | .115     | .125 | .120 | 2.92          | 3.18  | 3.05  |

### Package B Dimensions

| Dim. | (Inches) |      |      | (Millimeters) |       |       |
|------|----------|------|------|---------------|-------|-------|
|      | Min.     | Max. | Nom. | Min.          | Max.  | Nom.  |
| A    | .540     | .560 | .550 | 13.72         | 14.22 | 13.97 |
| B    | .540     | .560 | .550 | 13.72         | 14.22 | 13.97 |
| C    | .380     | .400 | .390 | 9.65          | 10.16 | 9.91  |
| D    | ---      | ---  | .400 | ---           | ---   | 10.16 |
| E    | .025     | .035 | .030 | .635          | .889  | .762  |
| F    | ---      | ---  | .200 | ---           | ---   | .508  |
| G    | ---      | ---  | .400 | ---           | ---   | .400  |
| H    | .017     | .023 | .020 | .432          | .584  | .508  |
| K    | .115     | .125 | .120 | 2.92          | 3.18  | 3.05  |
| L    | ---      | ---  | .400 | ---           | ---   | 10.16 |

