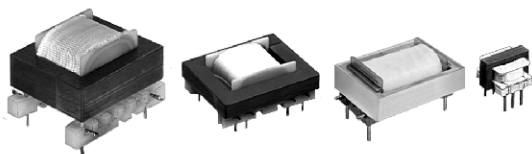


## Transformers Audio, Telephone Coupling



### FEATURES

- Designed to meet FCC Part 68.
- Underwriters Laboratories recognized component (UL Standard 1459, File E147915).
- Canadian Standards Association certified component (CSA Standard C22.2, File LR77313)
- Provide line isolation, impedance matching and line balance.
- Designed and built to meet telephone company requirements for data and voice access on leased private telephone lines or through dial-up switched telephone networks.



**RoHS**  
COMPLIANT

### STANDARD ELECTRICAL SPECIFICATIONS

| MODEL     | IMPEDANCE (OHMS) |           | COUPLING APPLICATION | UNBALANCED DC CURRENT (mA) | RETURN LOSS MIN. (dB) | INSERTION LOSSES at 1kHz (dB) | FREQUENCY RESPONSE REF. at 1kHz (dB) | IMPEDANCE MATCHING | DISTORTION | STYLE | SCHEMATIC NUMBER |
|-----------|------------------|-----------|----------------------|----------------------------|-----------------------|-------------------------------|--------------------------------------|--------------------|------------|-------|------------------|
|           | PRI              | SEC       |                      |                            |                       |                               |                                      |                    |            |       |                  |
| TA-10-08  | 600              | 600       | DATA/VOICE           | 0                          | 26                    | 1.0                           | ± 0.5                                | ± 10 %             | 0.5 %      | C     | 5                |
| TA-10-07  | 600              | 600       | DATA/VOICE           | 0                          | 26                    | 1.0                           | ± 0.5                                | ± 10 %             | 0.5 %      | J     | 5                |
| TA-30-06  | 600              | 600       | DATA/VOICE           | 0-5                        | 14                    | 1.5                           | ± 1.5                                | ± 25 %             | 5.0 %      | J     | 5                |
| TA-10-05  | 600              | 600       | DATA/VOICE           | 0                          | 26                    | .6                            | ± 0.5                                | ± 10 %             | 0.5 %      | B     | 5                |
| TA-30-02  | 600              | 600       | DATA/VOICE           | 0-5                        | 15                    | 1.4                           | ± 1.5                                | ± 25 %             | 5.0 %      | B     | 5                |
| TA-30-03  | 600              | 600       | DATA                 | 0-90                       | 8                     | 2.4                           | ± 1.0                                | ± 25 %             | 5.0 %      | G     | 5                |
| TA-32-02  | 600              | 600       | DATA/VOICE           | 0-80                       | 11                    | 1.2                           | ± 1.5                                | ± 25 %             | 5.0 %      | M     | 13               |
| TA-40-01* | 600              | 600       | DATA/VOICE           | 0-90                       | 14                    | 1.7                           | ± 2.0                                | ± 20 %             | 0.5 %      | N     | 13               |
| TA-33-02  | 600              | 600       | DATA/VOICE           | 0-100                      | 8                     | 1.6                           | ± 1.5                                | ± 25 %             | 5.0 %      | E     | 15               |
| TA-30-04  | 600              | 600 CT    | DATA                 | 0-90                       | 8                     | 2.4                           | ± 1.0                                | ± 25 %             | 5.0 %      | H     | 9                |
| TA-10-04  | 600 CT           | 600 CT    | DATA/VOICE           | 0                          | 26                    | .6                            | ± 0.5                                | ± 10 %             | 0.5 %      | A     | 4                |
| TA-30-01  | 600 CT           | 600 CT    | DATA/VOICE           | 0-5                        | 15                    | 1.4                           | ± 1.5                                | ± 25 %             | 5.0 %      | A     | 4                |
| TA-31-01  | 600 SPLIT        | 600       | DATA/VOICE           | 0-50                       | 8                     | 1.4                           | ± 1.5                                | ± 25 %             | 5.0 %      | K     | 11               |
| TA-32-03  | 600 SPLIT        | 600       | DATA/VOICE           | 0-80                       | 11                    | 1.2                           | ± 1.5                                | ± 25 %             | 5.0 %      | L     | 14               |
| TA-13-01  | 600              | 600 SPLIT | DATA/VOICE           | 0-75                       | 13                    | 1.2                           | ± 0.5                                | ± 10 %             | 0.5 %      | E     | 7                |
| TA-33-01  | 600              | 600 SPLIT | DATA/VOICE           | 0-100                      | 8                     | 1.6                           | ± 1.5                                | ± 25 %             | 5.0 %      | E     | 7                |
| TA-10-01  | 600              | 600/600   | DATA/VOICE HYBRID    | 0                          | 26                    | .8                            | ± 0.5                                | ± 10 %             | 0.5 %      | A     | 1                |
| TA-30-05  | 600              | 600/600   | DATA/VOICE HYBRID    | 0-5                        | 14                    | 1.4                           | ± 1.5                                | ± 25 %             | 5.0 %      | A     | 10               |
| TA-11-01  | 600              | 600/600   | DATA/VOICE HYBRID    | 0                          | 26                    | .8                            | ± 0.5                                | ± 10 %             | 0.5 %      | D     | 1                |
| TA-30-07  | 600              | 900       | DATA/VOICE           | 0-5                        | 14                    | 1.5                           | ± 1.5                                | ± 25 %             | 5.0 %      | J     | 2                |
| TA-10-02  | 600              | 900       | DATA/VOICE           | 0                          | 26                    | .7                            | ± 0.5                                | ± 10 %             | 0.5 %      | B     | 2                |
| TA-32-01  | 600/900          | 600       | DATA/VOICE           | 0-100/0-120                | 8                     | 1.4                           | ± 1.5                                | ± 25 %             | 5.0 %      | L     | 12               |
| TA-14-01  | 600              | 600/900   | DATA/VOICE           | 0-100/0-120                | 14                    | .5                            | ± 0.5                                | ± 10 %             | 0.5 %      | F     | 8                |
| TA-10-06  | 900              | 900       | DATA/VOICE           | 0                          | 26                    | .7                            | ± 0.5                                | ± 10 %             | 0.5 %      | A     | 6                |
| TA-10-03  | 4k               | 600       | DATA/VOICE           | 0                          | 22                    | .7                            | ± 0.5                                | ± 10 %             | 0.5 %      | B     | 3                |
| TA-23-01  | 600              | 600 SPLIT | DATA/VOICE           | 0-75                       | 13                    | 1.2                           | ± 0.5                                | ± 10 %             | 0.5 %      | E     | 16               |

\*Reference for TA-40-01 is 1.8kHz. Model TA-3 is the low-cost alternative to Model TA-1. For HOLDING COIL information, refer to MODEL TE/TD.

### ELECTRICAL SPECIFICATIONS

**Power Level:** - 45 dBm to + 7 dBm except TA-40-01  
(- 45 dBm to + 10 dBm)

**Longitudinal Balance:** Per FCC 68.310

60 dB minimum = 200 - 1000 Hz

45 dB minimum = 1000 - 4000 Hz

Dielectric Strength: 1500 V RMS

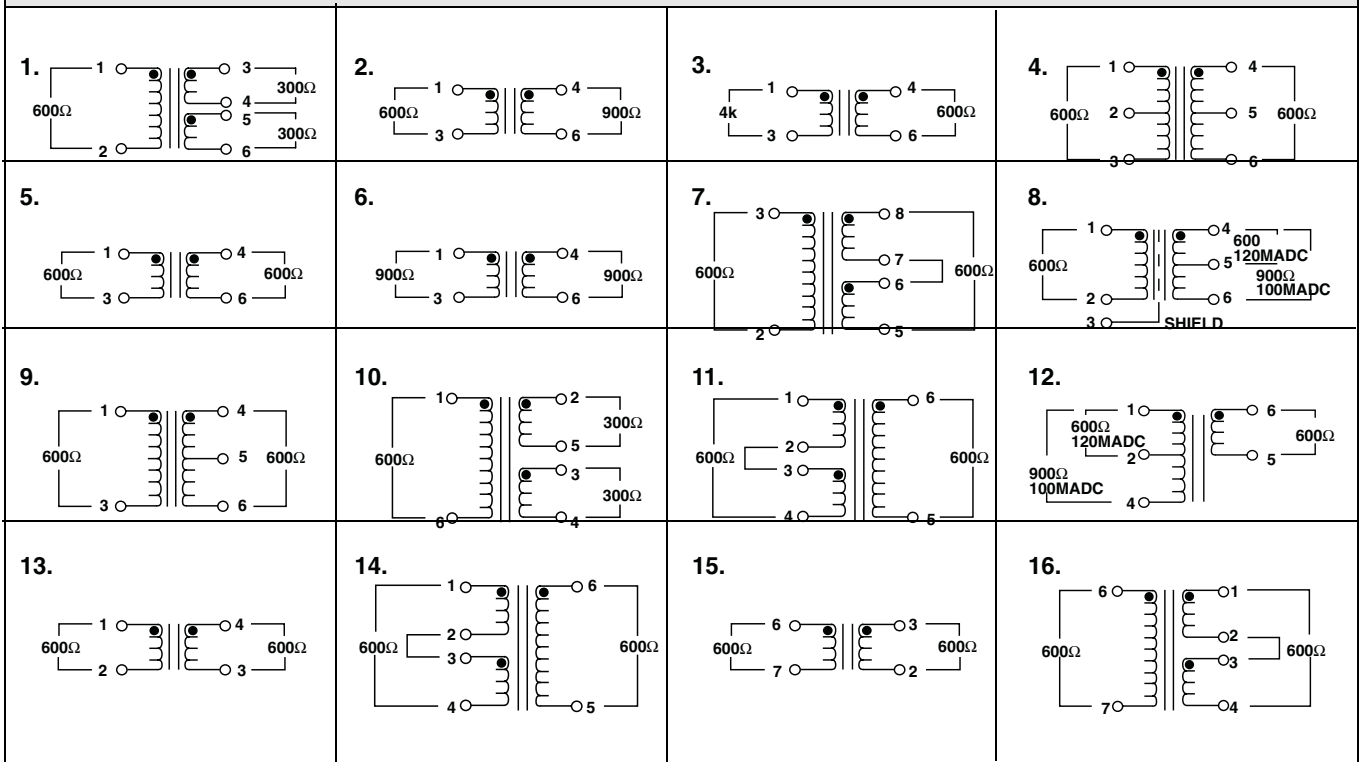
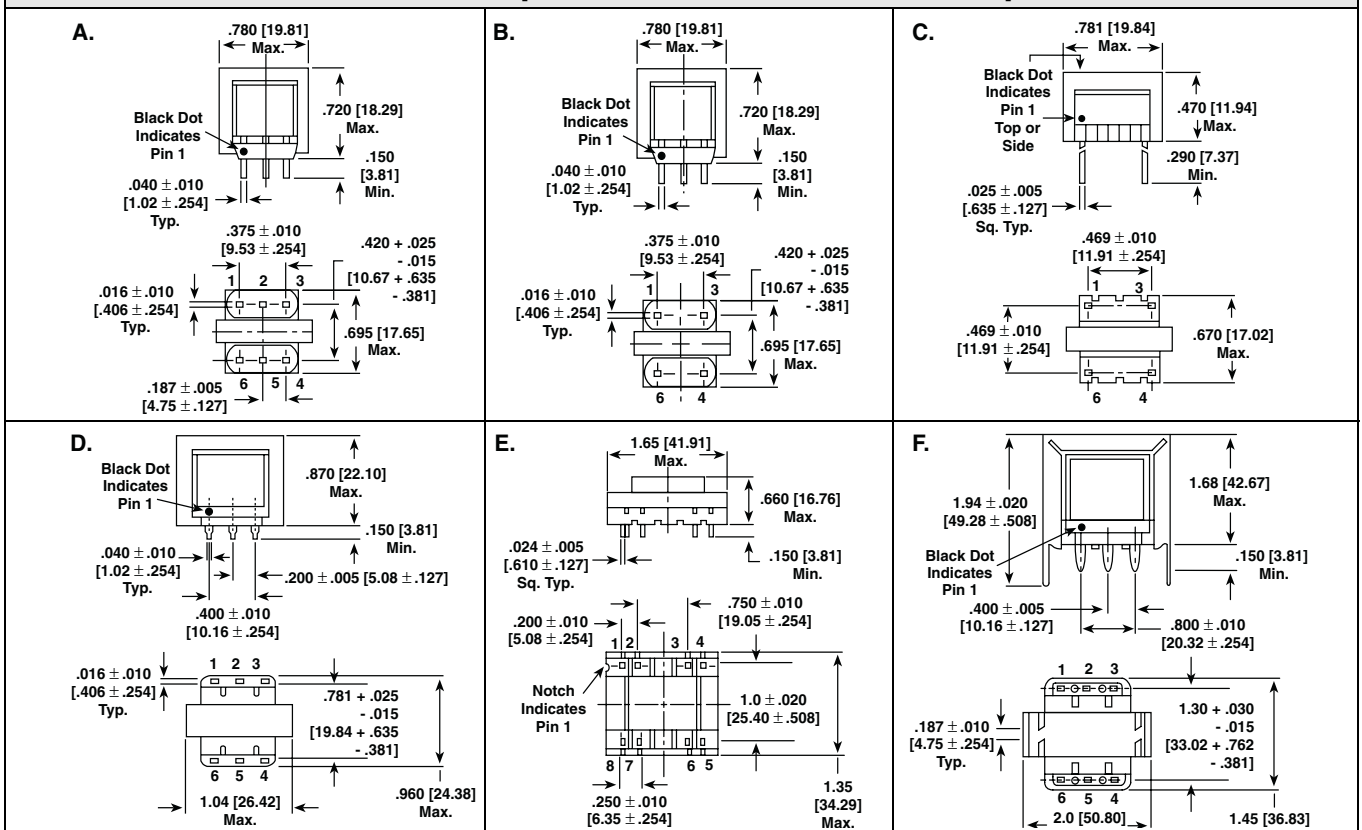
Frequency Range: Data/Voice = 300 to 3500 Hz

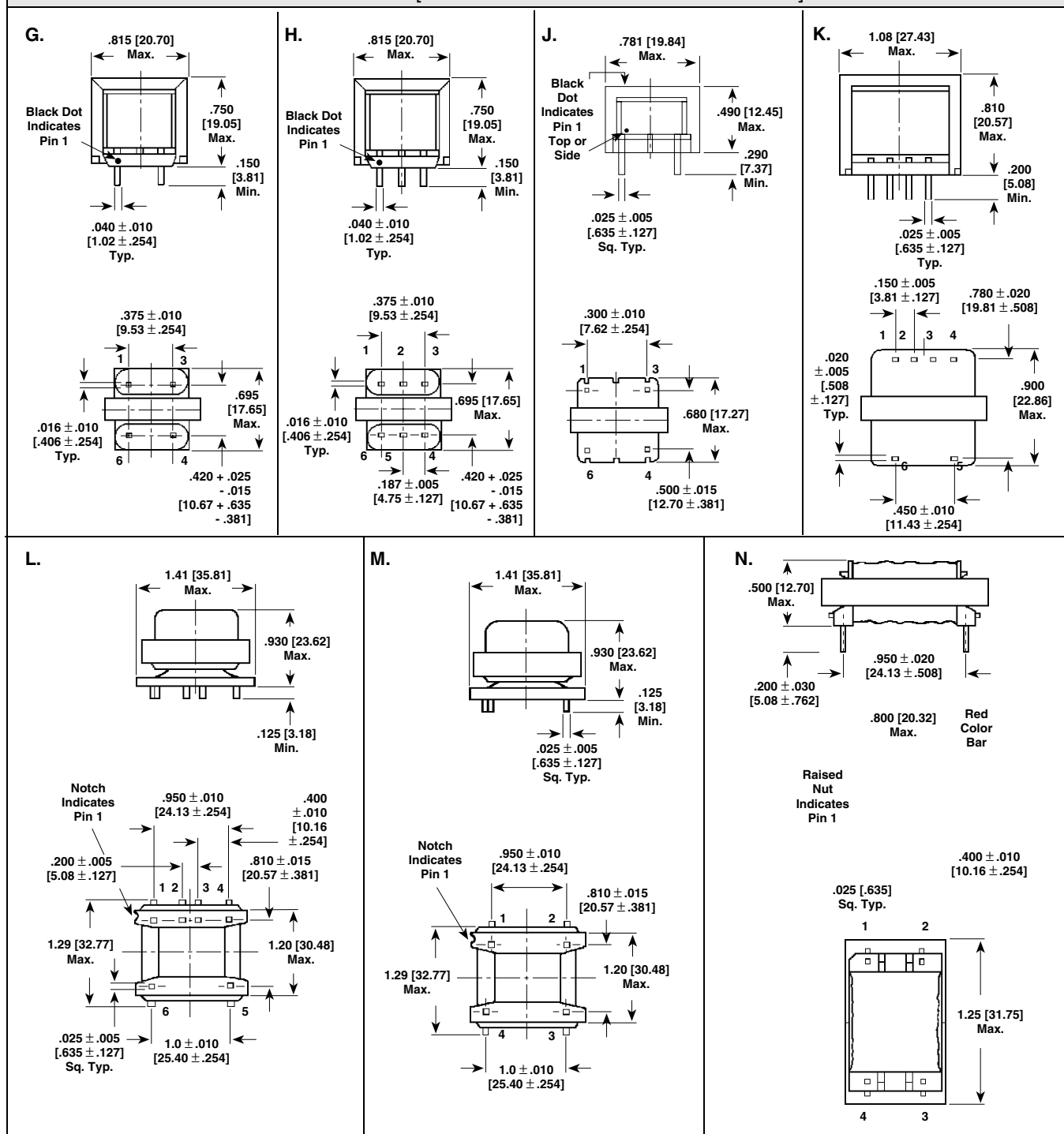
Data = 800 to 3500 Hz

### MECHANICAL SPECIFICATIONS

**Coating:** Impregnated with polyester varnish

**Terminals:** Precision spaced PC type plug-in terminals

**SCHEMATICS**

**DIMENSIONAL CONFIGURATIONS** [Numbers in brackets indicate millimeters]


**DIMENSIONAL CONFIGURATIONS** [Numbers in brackets indicate millimeters]

**PART MARKING**

- Vishay Dale  
- Date code  
- Model



ORDERING INFORMATION

|       |       |             |              |                                  |
|-------|-------|-------------|--------------|----------------------------------|
| TA    | 10    | 01          | EB           | e2                               |
| MODEL | STYLE | DASH NUMBER | PACKAGE CODE | JEDEC LEAD (Pb)-FREE<br>STANDARD |

GLOBAL PART NUMBER





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