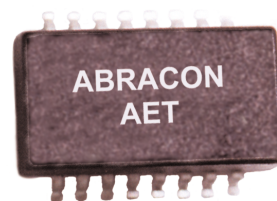


## SINGLE-PORT E1/T1/ISDN-PRI and S-INTERFACE TRANSFORMERS



- \* Supports ITU-T G.703 and I.430 Requirements
- \* Excellent Longitudinal Balance
- \* Surface Mountable Configurations
- \* Designs Support Industry Standard Transceiver ICs
- \* Excellent Coupling Coefficient
- \* Operating Temperature Range of -40°C to 85°C Available

### PERFORMANCE SPECIFICATIONS @25

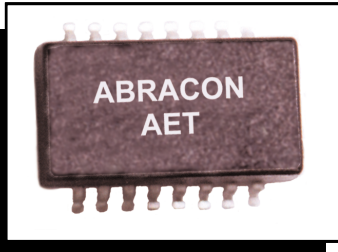
| Part Number             | Turns Ratio <sup>1,2</sup><br>(± 2%) | DCR<br>(Ω MAX) | OCL<br>(mH MIN) | C <sub>ww</sub><br>(pF MAX) | L <sub>L</sub><br>(uH MAX) | Cir. | Pkg. |
|-------------------------|--------------------------------------|----------------|-----------------|-----------------------------|----------------------------|------|------|
| <b>SINGLE PORT</b>      |                                      |                |                 |                             |                            |      |      |
| APT-6015                | 1CT:1                                | 0.7/0.7        | 1.2 (1-3-5)     | 25                          | 0.8                        | 9    | C    |
| APT-6016                | 1CT:2CT                              | 0.7/1.2        | 1.2 (1-3-5)     | 30                          | 0.5                        | 10   | C    |
| APT-6017                | 1:1.4CT                              | 0.7/0.8        | 1.2 (1-5)       | 35                          | 0.8                        | 11   | C    |
| APT-6018                | 1:1/1.26                             | 0.7/0.9        | 1.5 (2-6)       | 40                          | 0.4                        | 9    | C    |
| APT-6019                | 1:1.36CT                             | 0.7/0.9        | 1.2 (1-5)       | 35                          | 0.8                        | 11   | C    |
| APT-6020                | 1:2.3CT                              | 0.7/1.7        | 1.2 (1-5)       | 35                          | 0.5                        | 11   | C    |
| APT-6021                | 1:2CT                                | 0.7/1.2        | 1.2 (2-6)       | 35                          | 0.5                        | 9    | C    |
| <b>S-INTERFACE PORT</b> |                                      |                |                 |                             |                            |      |      |
| AET-125 <sup>3</sup>    | 1:1:2:2                              | 2.4/4.2        | 22.0 (1-4, 5-8) | 85                          | 5.0                        | 12   | E    |
| AET-126                 | 1:1:2:2                              | 2.4/4.2        | 22.0 (1-4)      | 85                          | 5.0                        | 13   | F    |
| AET-201 <sup>4</sup>    | 1CT:1CT                              | 2.4/2.4        | 22.0 (1-2-3)    | 100                         | 5.0                        | 14   | D    |
| AET-202 <sup>4</sup>    | 1:1:2.5:2.5                          | 2.5/5.8        | 22.0 (1-2-3-4)  | 100                         | 40                         | 17   | D    |
| APT-112 <sup>5</sup>    | 1CT:1CT                              | 0.7/0.5        | 1.2 (1-3-5)     | 25                          | 0.8                        | 15   | D    |
| APT-113 <sup>5</sup>    | 1.37CT:1                             | 0.7/0.5        | 1.2 (10-6)      | 35                          | 0.8                        | 16   | D    |

#### Test Conditions:

1. OCL: Open Circuit Inductance measured at 10 KHz with 100 mV<sub>RMS</sub> across the entire winding segment
2. DWV: 1,500 V<sub>RMS</sub> for 1 minute min; greater isolation voltages available

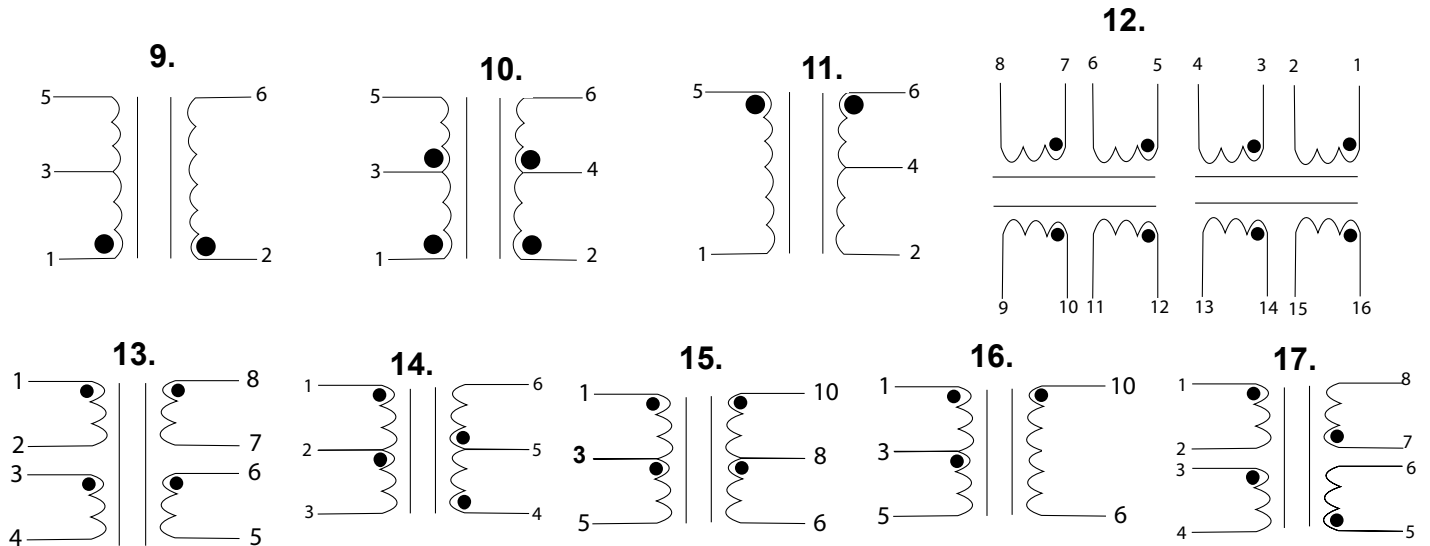
#### Notes:

1. "CT" indicates a center-tapped winding, otherwise, readings are intended to be across the entire winding segment
2. Turns Ratios are specified as: "Transceiver:Media", unless otherwise designated
3. OCL measured at 10 KHz with 100mV<sub>RMS</sub> and I<sub>DC</sub>=1.0 mA
4. DWV rated at 2,000 V<sub>RMS</sub>
5. DWV rated at 3,000 V<sub>RMS</sub>



# SINGLE-PORT E1/T1/ISDN-PRI and S-INTERFACE TRANSFORMERS

## CIRCUITS



## PACKAGES

