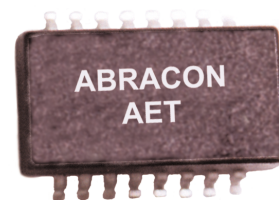


# Multiport E1/T1/ISDN-PRI Transformers



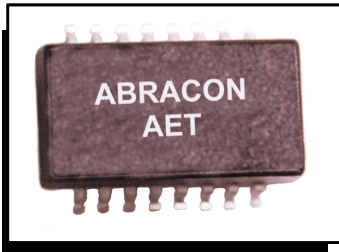
- \* Supports ITU-T G.703 and I.430 Requirements
- \* Excellent Longitudinal Balance
- \* Surface Mountable Configurations
- \* Designs Support Industry Standard Transceiver ICs
- \* Excellent Coupling Coefficient
- \* Operating Temperature Range of -40°C to 85°C Available

## PERFORMANCE SPECIFICATIONS @25

| Part Number          | Turns Ratio ( $\pm 2\%$ ) <sup>1,2</sup> |            | OCL<br>(mH MIN)   | C <sub>ww</sub><br>(pF MAX) | L <sub>L</sub><br>(uH MAX) | Cir. | Pkg. |
|----------------------|------------------------------------------|------------|-------------------|-----------------------------|----------------------------|------|------|
|                      | Tx                                       | Rx         |                   |                             |                            |      |      |
| <b>FOUR PORT</b>     |                                          |            |                   |                             |                            |      |      |
| AET-119              | 1:2                                      | 2CT:1      | 1.2               | 35                          | 0.6                        | 5    | B    |
| AET-120              | 1CT:1                                    | 1:1CT      | 1.2               | 35                          | 0.6                        | 6    | B    |
| APT-108              | 1:2.4                                    | 1:1        | 1.0               | 35                          | 0.6                        | 7    | B    |
| APT-109              | 1:2CT                                    | 1CT:2      | 1.2               | 35                          | 0.6                        | 6    | B    |
| APT-116 <sup>3</sup> | 1:2.42                                   | 1:2.42     | 0.6               | 35                          | 0.6                        | 8    | B    |
| <b>DUAL PORT</b>     |                                          |            |                   |                             |                            |      |      |
| AET-101              | 1CT:2CT                                  | 1CT:2CT    | 1.5 (16-14, 6-8)  | 45                          | 0.6                        | 1    | A    |
| AET-102              | 1CT:2CT                                  | 1CT:1CT    | 1.5 (1-3, 11-9)   | 45                          | 0.5                        | 1    | A    |
| AET-103              | 1CT:1.41CT                               | 1.41CT:1CT | 1.28 (1-3, 11-9)  | 30                          | 0.8                        | 1    | A    |
| AET-104              | 1CT:1.15CT                               | 1.15CT:1CT | 1.5 (1-3, 11-9)   | 45                          | 0.5                        | 1    | A    |
| AET-105              | 1.15CT:1                                 | 1:2CT      | 1.5 (16-14, 6-8)  | 40                          | 0.5                        | 2    | A    |
| AET-106              | 1CT:1.25/1.15                            | 1CT:2CT    | 1.5 (16-14, 6-8)  | 40                          | 0.5                        | 1    | A    |
| AET-107              | 2CT:1CT                                  | 1CT:2CT    | 1.2 (16-14, 6-8)  | 30                          | 0.6                        | 1    | A    |
| AET-108              | 1CT:1CT                                  | 1CT:1.36CT | 1.2 (16-14, 6-8)  | 30                          | 0.6                        | 1    | A    |
| AET-109              | 1CT:1.15CT                               | 1CT:1.15CT | 1.2 (1-3, 6-8)    | 30                          | 0.6                        | 1    | A    |
| AET-110              | 1.15CT:1                                 | 1CT:2CT    | 1.2 (16-14, 6-8)  | 30                          | 0.6                        | 3    | A    |
| AET-111              | 1.41CT:1CT                               | 1.41CT:1CT | 1.0 (16-14, 11-9) | 30                          | 0.6                        | 1    | A    |
| AET-112              | 1CT:2.42CT                               | 1CT:2.42CT | 1.2 (1-3, 6-8)    | 25                          | 0.6                        | 1    | A    |
| AET-113              | 1CT:2CT                                  | 1:1.36CT   | 1.2 (16-14, 6-8)  | 30                          | 0.6                        | 4    | A    |
| AET-114              | 1.36CT:1                                 | 1:2CT      | 1.5 (16-14, 6-8)  | 40                          | 0.5                        | 2    | A    |
| AET-115              | 1CT:2.42CT                               | 1CT:1CT    | 1.0 (1-3, 11-9)   | 30                          | 0.8                        | 1    | A    |
| AET-116              | 1/1.26:1                                 | 1CT:2CT    | 1.2 (16-14, 6-8)  | 30                          | 0.6                        | 3    | A    |
| AET-117              | 1CT:1CT                                  | 1CT:1.5CT  | 1.0 (16-14, 6-8)  | 30                          | 0.6                        | 1    | A    |
| AET-118              | 2CT:1CT                                  | 1:1.36CT   | 1.2 (16-14, 6-8)  | 30                          | 0.6                        | 4    | A    |

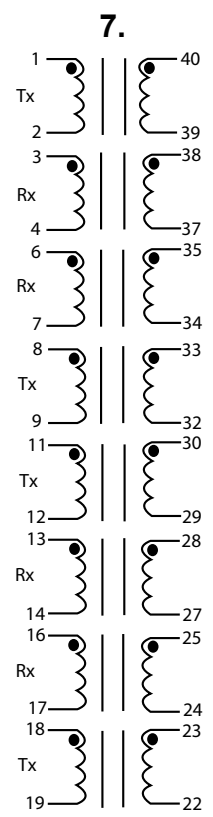
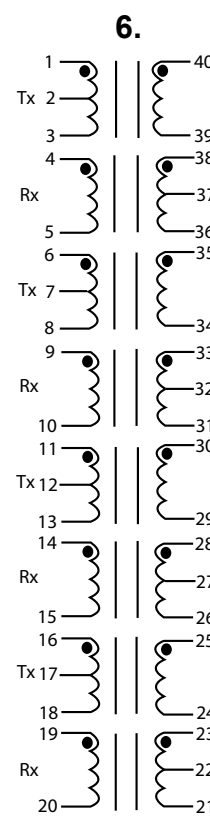
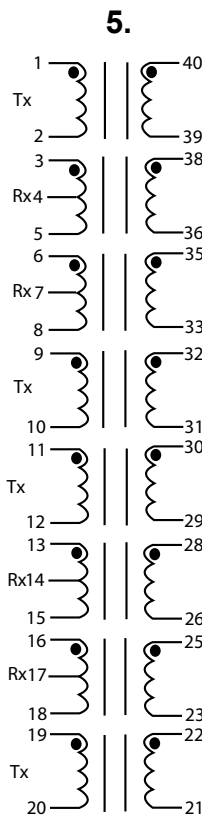
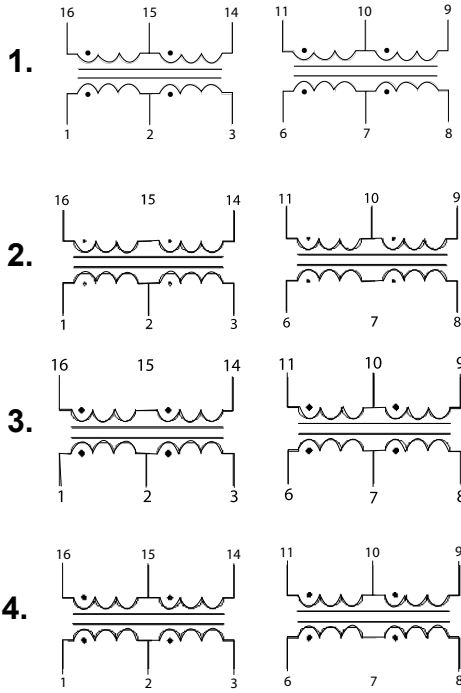
**Test Conditions:** 1. OCL: Open Circuit Inductance is measured at 10 KHz with 100 mV<sub>RMS</sub> across entire winding segment  
2. DWV: 1,500 V<sub>RMS</sub> for 1 minute min: greater isolation voltages available

**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"  
3. Includes IC protective array



# Multiport E1/T1/ISDN-PRI Transformers

## CIRCUITS



## PACKAGES

