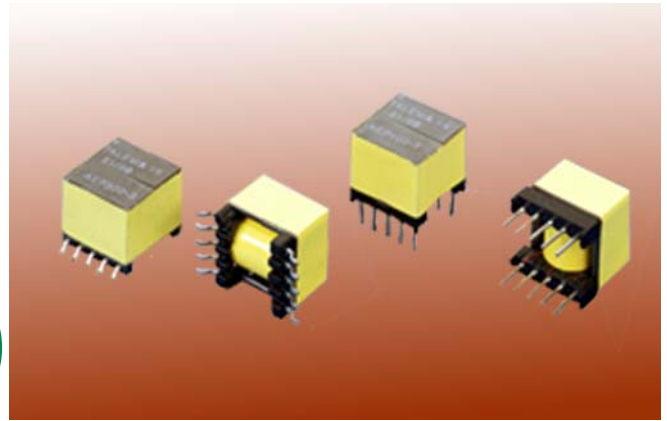




## ADSL Transformers for Motorola's Chipsets

### Features

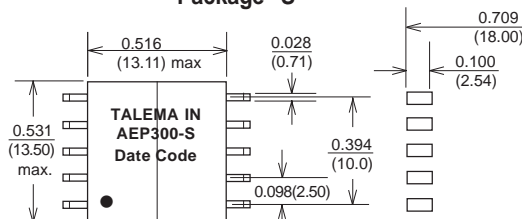
- complies with ANSI and ETSI requirements
- matched to Motorola's MC03AX1456RT, MC03AX1456, MC143460 & MC143462 chipsets
- very low THD
- 1500V minimum isolation
- all material approved to UL94V-0
- excellent quality at competitive price due to high volume production
- manufactured in an ISO-9001:2000, TS-16949:2002 and ISO-14001:2004 certified Talema facility
- fully RoHS compliant and meets lead free reflow level J-STD-020C



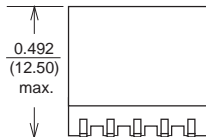
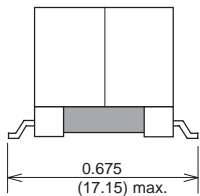
### Electrical Specifications @ 25°C • Operating Temperature -40° to +85°C

| Part Number          | Package   | IC Driver              | Turns Ratio<br>±2%<br>Line : IC | L <sub>P</sub><br>(mH)<br>±5% | L <sub>L</sub><br>(μH)<br>Max | C <sub>ww</sub><br>(pF)<br>Max | DCR<br>(Ohms)<br>Max<br>Line / IC | THD<br>(Linearity)<br>Typical | Longitudinal<br>Balance<br>Min | Insertion<br>Loss<br>Max | Freq.<br>Response<br>Max | Isolation<br>Voltage<br>(Vrms) |
|----------------------|-----------|------------------------|---------------------------------|-------------------------------|-------------------------------|--------------------------------|-----------------------------------|-------------------------------|--------------------------------|--------------------------|--------------------------|--------------------------------|
| AEP300-T<br>AEP300-S | TH<br>SMD | MC03ZX1456RT<br>CPE    | 1 : 1.8                         | 3.96                          | 25                            | 50                             | 4.40 / 8.00                       | -80dB<br>30kHz                | -40dB<br>25kHz-1MHz            | 0.5dB<br>100kHz          | 0.5dB<br>30kHz-1.1MHz    | 1500                           |
| AEP310-T<br>AEP310-S | TH<br>SMD | MC03AX1456<br>CO & CPE | 1.2 : 1                         | 3.96                          | 15                            | 50                             | 4.20 / 3.80                       | -80dB<br>100kHz               | -40dB<br>25kHz-1MHz            | 0.5dB<br>100kHz          | 0.5dB<br>30kHz-1.1MHz    | 1500                           |
| AEP320-T<br>AEP320-S | TH<br>SMD | MC143460/462           | 1.2 : 1                         | 3.96                          | 15                            | 50                             | 2.90 / 2.50                       | -80dB<br>100kHz               | -40dB<br>25kHz-1MHz            | 0.5dB<br>100kHz          | 0.5dB<br>30kHz-1.1MHz    | 1500                           |
| AEP330-T<br>AEP330-S | TH<br>SMD | MC0SAX1456RT<br>CPE    | 1 : 1.8                         | 3.96                          | 25                            | 60                             | 4.40 / 8.00                       | -80dB<br>30kHz                | -40dB<br>25kHz-1MHz            | 0.5dB<br>100kHz          | 0.5dB<br>30kHz-1.1MHz    | 1500                           |

#### Package "S"



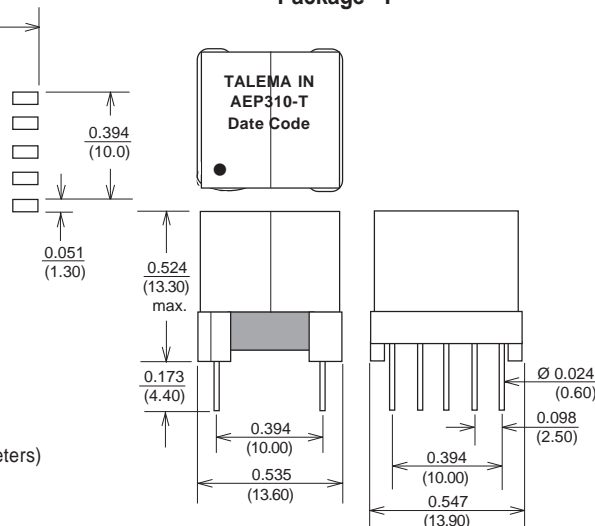
Note: P/N's AEP330-S & T will be supplied without pin #3



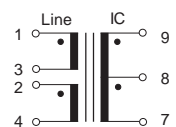
Dimensions: Inches(Millimeters)  
Tolerance: ±0.010 (0.25)

Weight: 6.8 grams

#### Package "T"



#### Schematic AEP300-T & S AEP310-T & S



#### AEP320-T & S AEP330-T & S

