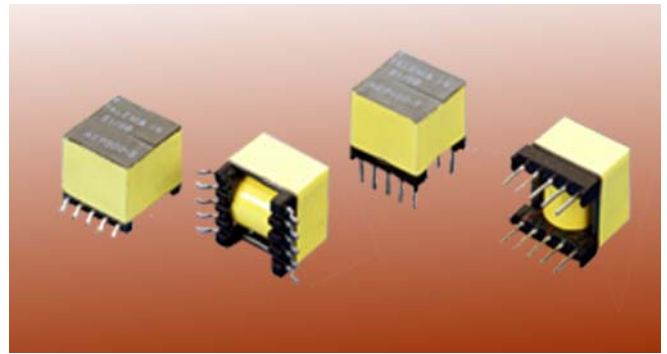




## ADSL Transformers for Globespan Chipsets

### Features

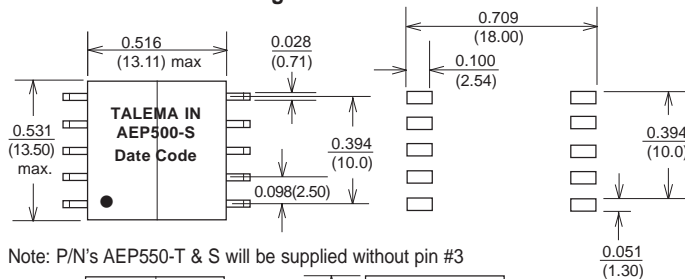
- complies with ANSI and ETSI requirements
- matched to Globespan's DMT G7000, EL-1501, G7266 and G7266RT chipsets
- very low THD
- 1500V minimum isolation
- all materials approved to UL94V-0
- manufactured in ISO-9001:2000, TS-16949:2002 and ISO-14001:2004 certified Talema facility
- fully RoHS compliant and meets lead free reflow level J-STD-020C



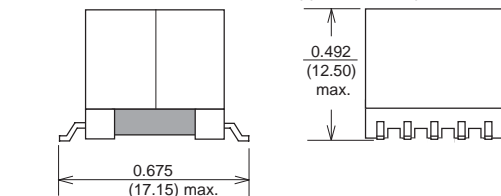
### Electrical Specifications @ 25°C • Operating Temperature -40° to +85°C

Part Number	Package	IC Driver	Turns Ratio $\pm 2\%$ Line : IC	$L_P$ ( $\mu H$ )	$L_L$ ( $\mu H$ ) Max	$C_{ww}$ (pF) Max	DCR (Ohms) Max Line / IC	THD (Linearity) Typical	Longitudinal Balance Min	Insertion Loss Max	Freq. Response Max	Isolation Voltage (Vrms)
AEP500-S	SMD	G7000 CPE	2 : 1	435 $\pm 6\%$	10	40	1.30 / 1.50	-80dB 100kHz	-40dB 20kHz-1.1MHz	0.5dB 722kHz	0.5dB 30kHz-1.1MHz	1500
AEP510-T AEP510-S	TH SMD	G7000 CO	1.4 : 1	441 $\pm 6\%$	6	40	1.05 / 0.85	-70dB 200kHz	-60dB 20kHz-1.1MHz	0.5dB 722kHz	1.0dB 150kHz-1.5MHz	1500
AEP520-T AEP520-S	TH SMD	EL-1501 CPE	1 : 1	407 $\pm 6\%$	10	40	1.40 / 1.20	-85dB 100kHz	-50dB 30kHz-1.1MHz	0.5dB 722kHz	3.0dB 30kHz-2.0MHz	1500
AEP530-T AEP530-S	TH SMD	EL-1501 CPE	1 : 1	407 $\pm 6\%$	10	40	1.40 / 1.20	-85dB 100kHz	-50dB 30kHz-1.1MHz	0.5dB 722kHz	3.0dB 30kHz-2.0MHz	1500
AEP540-T AEP540-S	TH SMD	EL-1501 CO	1 : 1.4	483 $\pm 10\%$	10	50	1.30 / 2.45	-85dB 100kHz	-50dB 30kHz-1.1MHz	0.5dB 722kHz	3.0dB 30kHz-2.0MHz	1500
AEP550-T AEP550-S	TH SMD	G7266 CO	1.41 : 1	474 $\pm 10\%$	12	40	1.10 / 0.85	-80dB 100kHz	-50dB 30kHz-1.1MHz	1.0dB 722kHz	0.5dB 100kHz-1.1MHz	1500
AEP560-S	SMD	G7266RT	2 : 1	440 $\pm 5\%$	6	40	1.90 / 0.95	-80dB 100kHz	-50dB 30kHz-1.1MHz	1.0dB 722kHz	0.5dB 100kHz-1.1MHz	1500
AEP570-S	SMD	Nova	2 : 1	100 $\pm 5\%$	12	50	1.04 / 0.48	-90dB 50kHz	50dB 20kHz-1.1MHz	1.0dB 500kHz	0.5dB 100kHz-1.1MHz	1500

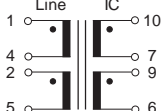
#### Package "S"



Note: P/N's AEP550-T & S will be supplied without pin #3

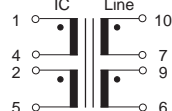


**AEP500-S**  
**AEP510-T & S**  
**AEP530-S**  
**AEP570-S**

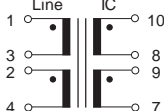


#### Schematic

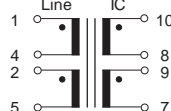
**AEP550-T & S**  
**AEP560-S**



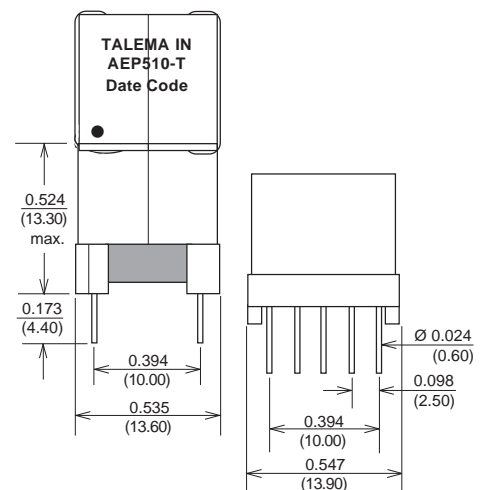
**AEP520-T & S**  
**AEP540-T & S**



**AEP530-T**



#### Package "T"



Dimensions: Inches (Millimeters)  
 Tolerance:  $\pm 0.010$  (0.25)

Weight: 6.8 grams