



# AmorphCore series type SA - 25

single ended output transformer

5,000  $\Omega$  to 4 and 8  $\Omega$

optimized for 845 type power triodes in 15 Watt mode  
(750V 80mA condition)

- **Amorphous Metglas™ dual C-core**
- virginal PTFE interlayer dielectric
- vari-lay inter-winding technique
- 10 - 134,000 Hz bandwidth
- 0,26 dB insertion loss

The AmorphCore series “ type SA-25 ” is a single ended output transformer designed around the 845 triode. It makes use of an amorphous double C-core sourced from a leading manufacturer thereby ensuring high quality standards. This particular product is typically used at a moderate 750 Volts plate voltage offering :

“ 15 Watts rms in Class A1 mode ”

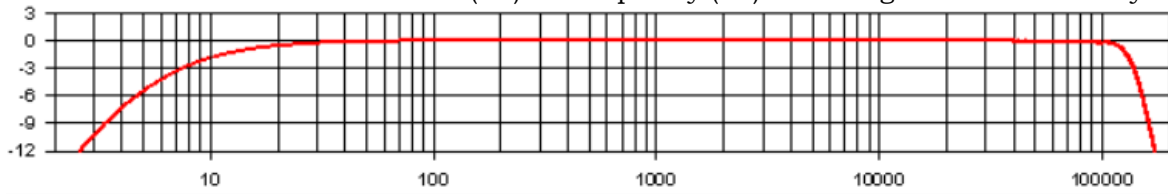
This is about 2 times the power output of a classic 300B design, a welcome feature when mating with somewhat less efficient speaker systems in the 85-90 db/m range

It is as well an attractive challenge for anyone wanting to take a first step into the big transmitting tubes without having to deal with complicated power supply electronics and working voltages over 1,000 Volts.

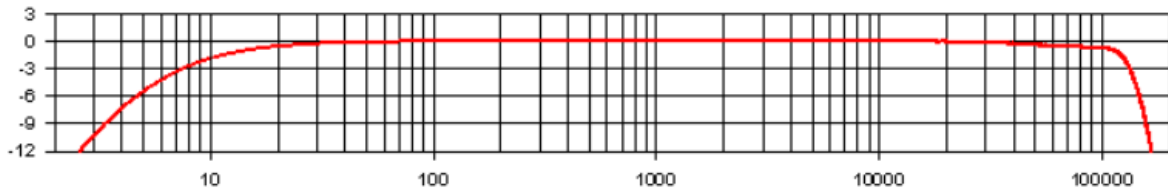
## E L E C T R I C A L D A T A

Primary impedance	5,000 $\Omega$
Secondary load impedance	4 an 8 $\Omega$
Winding ratio (4/8 $\Omega$ )	35.31 / 24.88
Bandwidth (-3 dB @ 1W, sec. grounded)	10 - 134,000 Hz
Core saturation	30 Hz @ 15W rms
Primary inductance	26 Hy
Leakage inductance	7.7 mH
Shunt capacitance sec. grounded	388 pF
Shunt capacitance sec. floating	197 pF
Primary DC resistance	180 $\Omega$
Sec. DC resistance 4/8 Ohm	0.107 / 0.215 $\Omega$
Insertion loss 4/8 Ohm	0.26 / 0.26 dB

level (dB) vs. frequency (Hz) 4 ohm - grounded secondary



level (dB) vs. frequency (Hz) 8 ohm - grounded secondary



Mechanical data & electrical connections

CASE-2

[preliminary new case layout datasheet](#)