



AmorphCore series type SA - 15

single ended output transformer

6100 Ω to 4 and 8 Ω

optimized for GM70 type power triodes in 30 Watt mode (1000V 100mA condition)

- **Amorphous Metglas™ dual C-core**
- virginal PTFE interlayer dielectric
- vari-lay inter-winding technique
- 7 - 103,000 Hz bandwidth
- 0,22 dB insertion loss

The AmorphCore series " type SA-15 " is a single ended output transformer designed around the GM70 triode. It makes use of an oversized amorphous double C-core sourced from a leading manufacturer thereby ensuring high quality standards. This particular product is typically used at 1000 Volts plate voltage offering :

" 30 Watts rms in Class A1 mode "

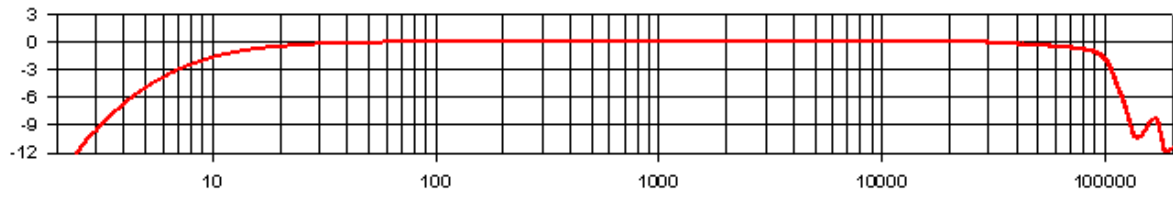
This is about the power output of a quadruple 300B design, meaning that this tube is capable of driving normal efficiency speakers with authority.

The tube owes the midrange of a 300B but with the tonal balance of a 2A3, while bass control is excellent.

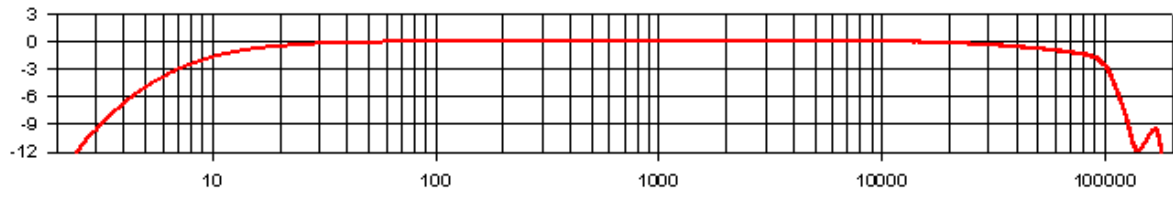
E L E C T R I C A L D A T A

Primary impedance	6100 Ω
Secondary load impedance	4 an 8 Ω
Winding ratio (4/8 Ω)	39.05 / 27.56
Bandwidth (-3 dB @ 1W, sec. grounded)	7 - 103,000 Hz
Core saturation	22 Hz @ 30W rms
Primary inductance	45 Hy
Leakage inductance	8.6 mH
Shunt capacitance sec. grounded	467 pF
Shunt capacitance sec. floating	234 pF
Primary DC resistance	188 Ω
Sec. DC resistance 4/8 Ohm	0.082 / 0.167 Ω
Insertion loss 4/8 Ohm	0.22 / 0.22 dB

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



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



Mechanical data & electrical connections

CASE-3

[preliminary new case layout datasheet](#)