MONOLITH MAGNETICS

AmorphCore series type ITA-03/60

Interstage transformer

1:1

Non-Bifilar wound interstage transformer

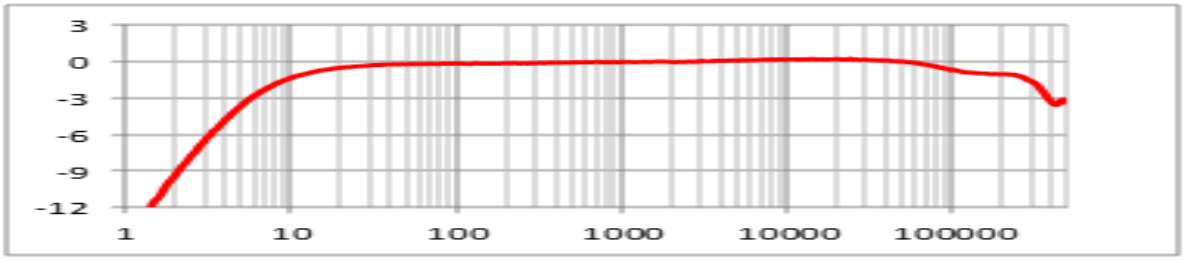
- Amorphous Metglas™ dual C-core
- Non-Bifilar winding scheme
- For high current low impedance driver tubes
- Driving large power tubes: 845, 211, GM-70
- Allows A2 operation
- 9 – 370,000 Hz bandwidth
- 60 mA nominal DC current

The AmorphCore series " type ITA-03/60" is an interstage transformer that makes use of a substantial amorphous double C-core sourced from a leading manufacturer thereby ensuring high quality standards. Interstage coupling, if applied correctly, results in the most efficient coupling of the driver stage to the power tube and also has the benefit of substantially reduced supply voltages.
Typically, a bifilar wound transformer is used for that purpose such as our excellent IT-01. It features outstanding technical performance with stellar frequency response but there is a limit with respect to the anode voltage that can be applied at the primary side because the P/S wires being close together over a substantial length. This model circumvents this problem and allows the use of higher anode voltages in a safe way and also sports impressive numbers in the datasheet. Typical bandwidth is around 59Hz ... > 300 kHz when using a 300B to drive a GM-70 power tube. Typical driver tubes are 300B, 2A3, 6EM7, KT-88 etc ..

ELECTRICAL DATA

Winding ratio	1:1
Bandwidth (-3 dB @ 1W, sec. grounded)	9 – 370,000 Hz
Core saturation	24 Hz @ 100 Vrms
Primary inductance	17 Hy
Leakage inductance	0.20 mH
Shunt capacitance sec. grounded	64 pF
Shunt capacitance sec. floating	55 pF
Primary DC resistance	285 Ω
Sec. DC resistance	285 Ω
Maximum recommended P/S DC voltage	750 V

level (dB) vs. frequency (Hz) 700R generator resistance
100K // 100 pF load resistance



Bandwidth for various Rgen
RL=100K //100pF, secondary grounded

Rgen (ohm)	f-3dB (Hz) LF	f-3dB (kHz) HF
700	9.3	370
1500	18.9	230

Mechanical data & electrical connections

CASE-1
preliminary new case layout datasheet