WIDE BANDWIDTH TOROIDAL PUSH-PULL TUBE OUTPUT TRANSFORMER Specialist Range Series Type and Application VDV-2100-SSCR reference specs. Primary Impedance $[k\Omega]$ Raa = 2.011output transformers for Secondary Impedance Rls = 4 $[\Omega]$ Turns Ratio Np/Ns Ratio = 22.421[] tube amplifiers UL-tap: tap = 40[%] Cathode Feedback Ratio [%] cfb = 0-.1 dB Frequency Range [Hz to kHz] (3) flf = 2.581fhf = 113.157-1 dB Frequency Range [Hz to kHz] (3) fl1 = 1.101 fh1 = 147.645Vanderveen -3 dB Requency Range [Hz to kHz] (3) f13 = 0.56fh3 = 195.062Nominal Power (1) [W] Pn = 100- 3 dB Power Bandwidth starting at : [Hz] $f_{11} = 14$ Total primary Inductance (2) IH1Lp = 389Primary Leakage Inductance 1sp = 1.91[mH] Effective Primary Capacitance cip = 0.604[nF] Total Primary DC Resistance Rip = 49.8Total Secondary DC Resistance Ris = 0.116Tubes Plate Resistance per section Insertion Loss Iloss = 0.227[dB] Q-factor 2nd order HF roll-off (5) Q = 0.756[] HF roll-off Specific Frequency (5) [kHz] Fo = 183.271 $QF = 2.037 \cdot 10^5$ Quality Factor (5) [] Quality Decade Factor = log(QF) (5): ODF = 5.309[] 6x black 6x blue Tuning Factor (5) TF = 1.709[] Tuning Decade Factor = log(TF) (5): TDF = 0.233[] Frequency Decade Factor (4,5) FDF = 5.542[] (1): calculated under the conditions of balancing the DC-currents and the AC-anode voltages of the powertubes driving the transformer (2): measured at 230Vrms at 50Hz over total primary calculation at 1 Watt in Rls; ri and Rls are pure Ohmic (3): defined as FDF = log(fh3/fl3) = number of frequency decades transfered (4): ir. Menno van der Veen; Theory and Practise of Wide Bandwidth Toroidal Output Transformers; preprint 3887, 97th AES Convention San Francisco (C): Copyright 1994 Vanderveen; Version 1.7; results date 29-08-2011. orange Final specs can deviate 15% or improve without notice 55mm BOTTOM VIEW 6x blue yellow green 2000 ohm 4 ohm yellow orange. Always connect the six blue wires together Always connect the six black wires together Screen 6x black diameter approx.153mm height approx.89mm Lead length solid leads approx. 200mm violet fully potted in aluminium black textured shell Industrieweg Jan-2012 NEEDE NL-7161BX The Netherlands VDV2100SSCR P O - B o x NL-7160AA NEEDE The Netherlands Tel.+31 (0)545 283456 WIDE BANDWITH TOROIDAL Fax+31 (0)545 283457 AMPLIMO SPECIALIST RANGE

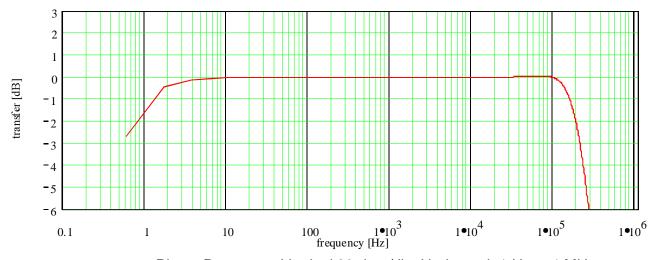
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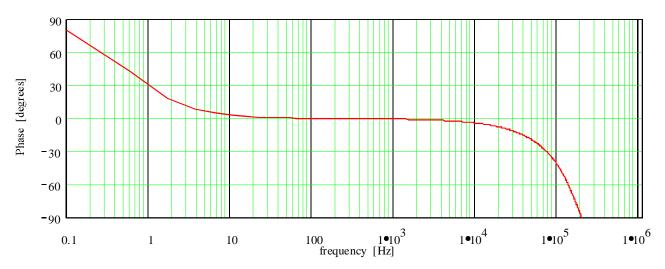
TUBE OUTPUT TRANSFORMER

AMPLIMO TOROIDAL PUSH-PULL TRANSFORMER; VDV-2100-SSCR; reference specs

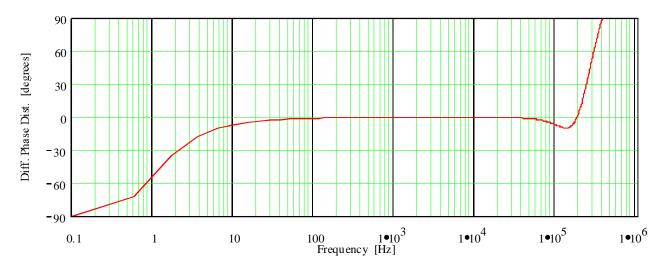
Frequency Response; Vertical 1 dB/div; Horizontal .1 Hz to 1 MHz (3)



Phase Response; Vertical 30 deg./div; Horizontal .1 Hz to 1 MHz



Differential Phase Distortion; vert. 30 deg./div; hor .1 Hz to 1 MHz See: W.M.Leach, Differential Time Delay..; JAES sept.89 pp.709-715



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