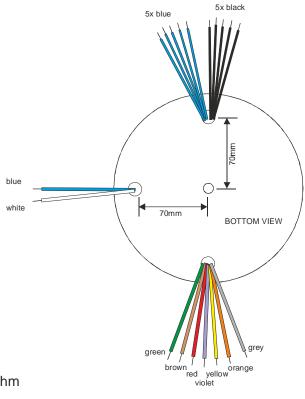
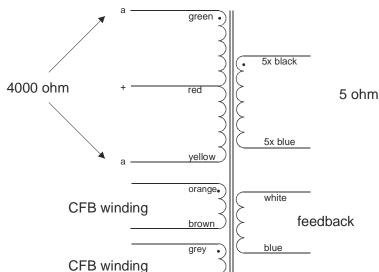
## WIDE BANDWIDTH TOROIDAL PUSH-PULL TUBE OUTPUT TRANSFORMER VDV-1070-UC Raa = 4 Secondary Impedance $[\Omega]$ Rls = 5Turns Ratio Np/Ns Ratio = 28.284[] tap = -100[%] Cathode Feedback Ratio cfb = 100 [%] -.1 dB Frequency Range [Hz to kHz] (3) flf = 0.367fhf = 114.824-1 dB Frequency Range [Hz to kHz] (3) f11 = 0.156fh1 = 249.653-3 dB Requency Range [Hz to kHz] (3) f13 = 0.08fh3 = 441.47Nominal Power (1) Pn = 70 [W] - 3 dB Power Bandwidth starting at : fu = 14 [Hz] Total primary Inductance (2) $Lp = 1.768 \cdot 10^{2}$ Primary Leakage Inductance lsp = 0.971[mH] Effective Primary Capacitance cip = 0.349Total Primary DC Resistance Rip = 67.2Total Secondary DC Resistance Ris = 0.122Tubes Plate Resistance per section ri = 0.53Insertion Loss Iloss = 0.175[dB] Q-factor 2nd order HF roll-off (5) Q = 0.545HF roll-off Specific Frequency (5) Fo = 606.987 [kHz] Quality Factor (5) $OF = 1.82 \cdot 10^{6}$ [ ] Quality Decade Factor = log(QF) (5): ODF = 6.26[ ] Tuning Factor (5) TF = 3.047[ ] Tuning Decade Factor = log(TF) (5) : TDF = 0.484[ ] Frequency Decade Factor (4,5) FDF = 6.744[ ]

Specialist Range Series output transformers for tube amplifiers

Vander Veen

- 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
- (3): calculation at 1 Watt in RIs; ri and RIs are pure Ohmic
  (4): defined as FDF = log(fh3/fB) = number of frequency decades transfered
- (5): 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. Final specs can deviate 15% or improve without notice





violet

info@amplimo.nl

Always connect the five blue wires together Always connect the five black wires together diameter approx.152mm height approx.89mm Lead length solid leads approx. 200mm fully potted in aluminium black textured shell

<b>AMPLIMO</b>

Ν

ndustrieweg 14 NL-7161BX NEEDE The Netherlands	НВ	Jan-2012	
O - B o x 2 7 NL-7160AA NEEDE			
he Netherlands Fel.+31 (0)545 283456 Fax+31 (0)545 283457			

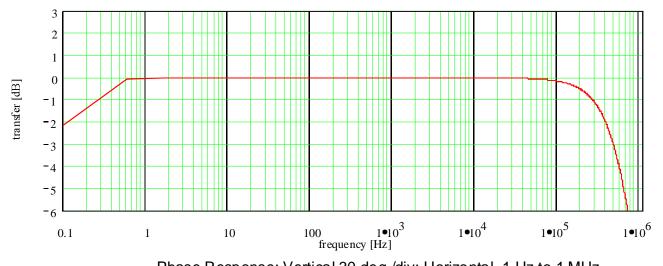
Copyright Amplimo BV

VDV1070UC

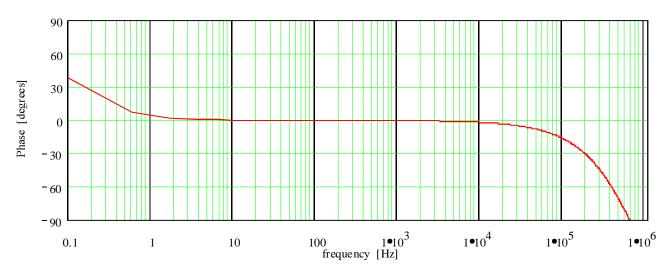
WIDE BANDWITH TOROIDAL SPECIALIST RANGE TUBE OUTPUT TRANSFORMER

## AMPLIMO TOROIDAL PUSH-PULL TRANSFORMER; VDV-1070-UC; reference specs

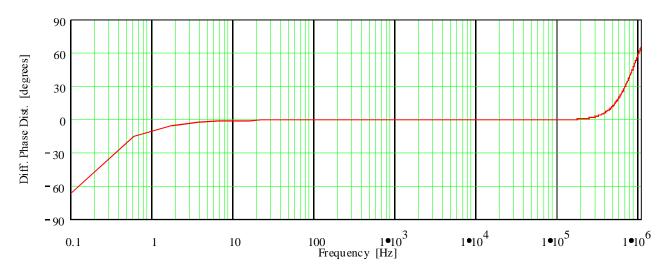
## Frequency Response; Vertical 1 dB/div; Horizontal .1 Hz to 1 MHz (3)



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



(C): Copyright 1994: Ir. bureau Vanderveen