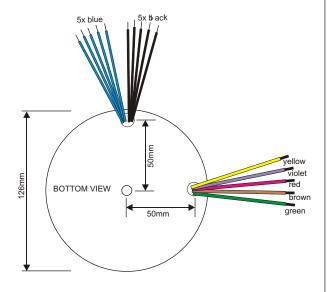
WIDE BANDWIDTH TOROIDAL PUSH-PULL TUBE OUTPUT TRANSFORMER

VDV6040PP = PAT4002: 2 x EL34. Type and Application Primary Impedance Raa 5.879 [k] Secondary Impedance Rls 5 [] Turns Ratio Np/Ns Ratio 34.29 [] Ultra Linear Tapping at [%] 40 tap -.1 dB Frequency Range [Hz to kHz] (3): flf 3.903 fhf 24.035 -1 dB Frequency Range [Hz to kHz] (3): fh1 53.492 -3 dB Requency Range [Hz to kHz] (3): fl3 0.847 fh3 98 828 Nominal Power (1) [W] Pn 40 - 3 dB Power Bandwidth starting at 25 [Hz] Total primary Inductance (2) [H] Lp 535 Primary Leakage Inductance [mH] lsp 3.7 Effective Primary Capacitance [nF] 0.613 cip Total Primary DC Resistance Rip 68.1 [] Total Secondary DC Resistance 0.158 Ris [] Tubes Plate Resistance per section ri 2.65 [k] Insertion Loss 0.184 [dB] Q-factor 2nd order HF roll-off (5) 0.496 [] Q HF roll-off Specific Frequency (5) 155.213 [kHz] Fo 1.446•10⁵ Quality Factor (5) [] Quality Decade Factor = log(QF) (5) QDF 5 16 [] Tuning Factor (5) 0.807 [] Tuning Decade Factor = log(TF) (5) TDF -0.093 []





(1): calculated under the conditions of balancing the DC-currents and the AC-anode voltages of the powertubes driving the transformer

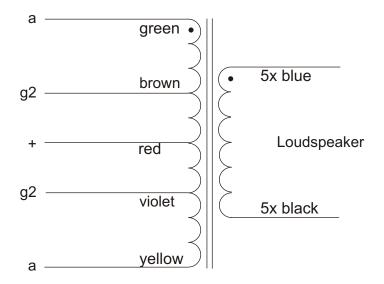
FDF 5.067

- (2): maximum value, measured over secondary, transferred to primary
- (3): calculation at 1 mWatt in RIs; ri and RIs are pure Ohmic

Frequency Decade Factor (4,5)

- (4): defined as FDF = log(fh3/fl3) = number of frequency decades transfered
- 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; design date.....

Always connect the five blue wires together Always connect the five black wires together diameter approx.126mm height approx.65mm Lead length solid leads approx. 200mm fully potted in aluminium black textured shell



[]



Industrieweg 14 NL-7161BX NEEDE	НВ	02-03-2003
The Netherlands		
PO-Box 27		
NL-7160AA NEEDE		
The Netherlands Tel +31 (0)545 28 3456		

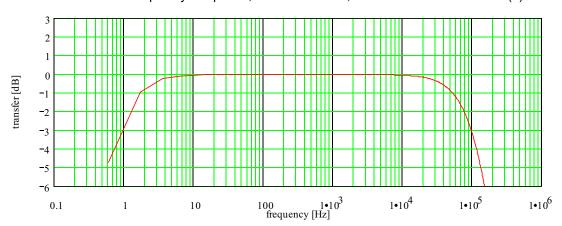
Copyright Amplimo BV

VDV6040PP / PAT4002

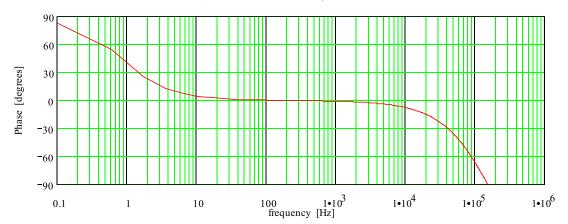
WIDE BANDWITH TOROIDAL PUSH-PULL TUBE OUTPUT TRANSFORMER

WIDE BANDWIDTH TOROIDAL PUSH-PULL TUBE OUTPUT TRANSFORMER; 6040=PAT4002

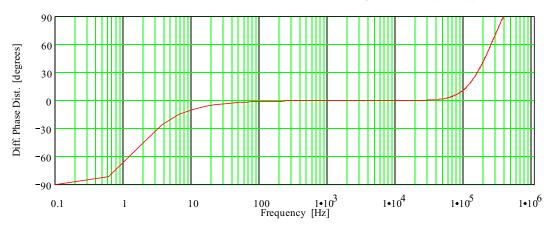




Phase Response; Vertical 30 deg./div; Horizontal .1 Hz to 1 MHz



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. buro Vanderveen