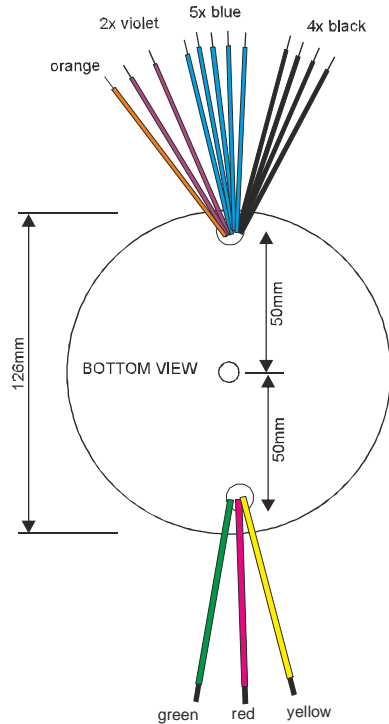


WIDE BANDWIDTH TOROIDAL PUSH-PULL TUBE OUTPUT TRANSFORMER

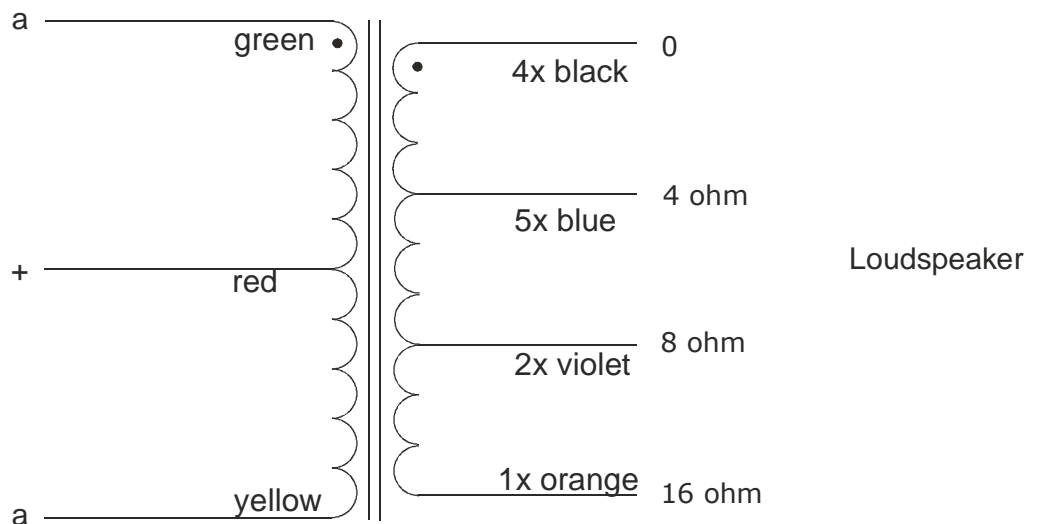
Type and Application	:	VDV-PP300B	
Primary Impedance	:	Raa = 3.453	[kΩ]
Secondary Impedance	:	Rls = 4	[Ω]
Turns Ratio Np/Ns	:	Ratio = 29.382	[]
Ultra Linear Tapping at	:	tap = 0	[%]
-1 dB Frequency Range [Hz to kHz] (3)	:	flf = 1.273	fhf = 46.153
-1 dB Frequency Range [Hz to kHz] (3)	:	fl1 = 0.543	fh1 = 96.715
-3 dB Frequency Range [Hz to kHz] (3)	:	fl3 = 0.276	fh3 = 162.888
Nominal Power (1)	:	Pn = 30	[W]
-3 dB Power Bandwidth starting at	:	fu = 14	[Hz]
Total primary Inductance (2)	:	Lp = 620	[H]
Primary Leakage Inductance	:	lsp = 3.2	[mH]
Effective Primary Capacitance	:	cip = 0.7	[nF]
Total Primary DC Resistance	:	Rip = 137	[Ω]
Total Secondary DC Resistance	:	Ris = 0.161	[Ω]
Tubes Plate Resistance per section	:	ri = 0.7	[kΩ]
Insertion Loss	:	lloss = 0.334	[dB]
Q-factor 2nd order HF roll-off (5)	:	Q = 0.585	[]
HF roll-off Specific Frequency (5)	:	Fo = 203.545	[kHz]
Quality Factor (5)	:	QF = 1.938*10 ⁵	[]
Quality Decade Factor = log(QF) (5)	:	QDF = 5.287	[]
Tuning Factor (5)	:	TF = 3.043	[]
Tuning Decade Factor = log(TF) (5)	:	TDF = 0.483	[]
Frequency Decade Factor (4,5)	:	FDF = 5.77	[]

- (1): calculated under the conditions of balancing the DC-currents and the AC-anode voltages of the powertubes driving the transformer
- (2): measured at 120Vrms at 60Hz over total primary
- (3): calculation at 1 mWatt in Rls; ri and Rls are pure Ohmic
- (4): defined as FDF = log(fh3/fl3) = number of frequency decades transferred
- (5): ir. Menno van der Veen; Theory and Practise of Wide Bandwidth Toroidal Output Transformers; preprint 3887, 97th AES Convention San Francisco Copyright 1994 Vanderveen; Version 1.7; results date 20-4-2009
- (C): Final specs can deviate 15% or improve without notice

VANDESIGNED BY VANDERVEEN



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



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HB

Aug 2012

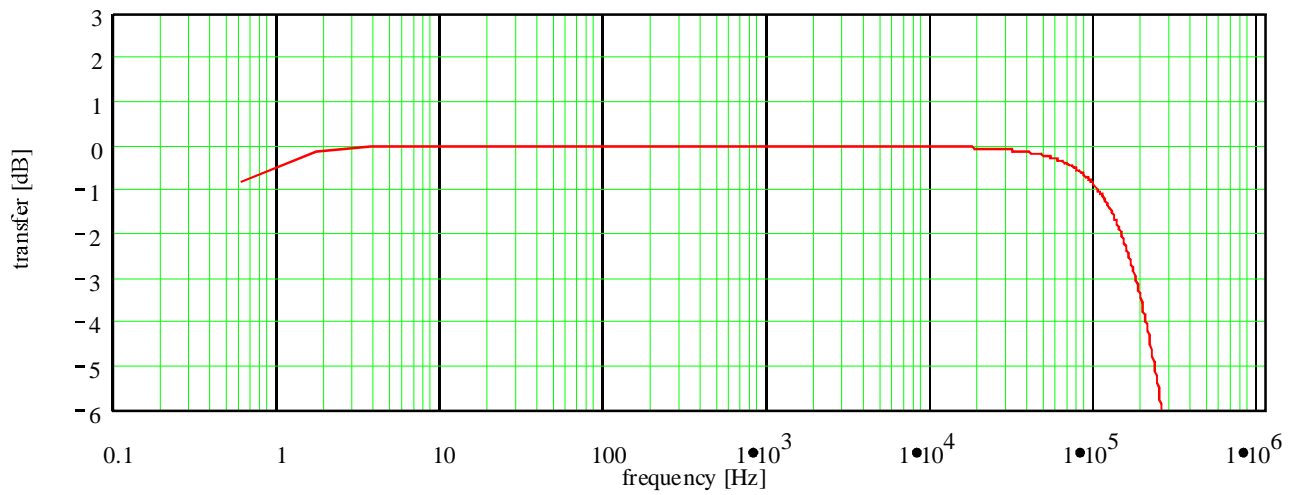
VDV-PP-300B

WIDE BANDWIDTH TOROIDAL
 PUSH-PULL TUBE OUTPUT TRANSFORMER

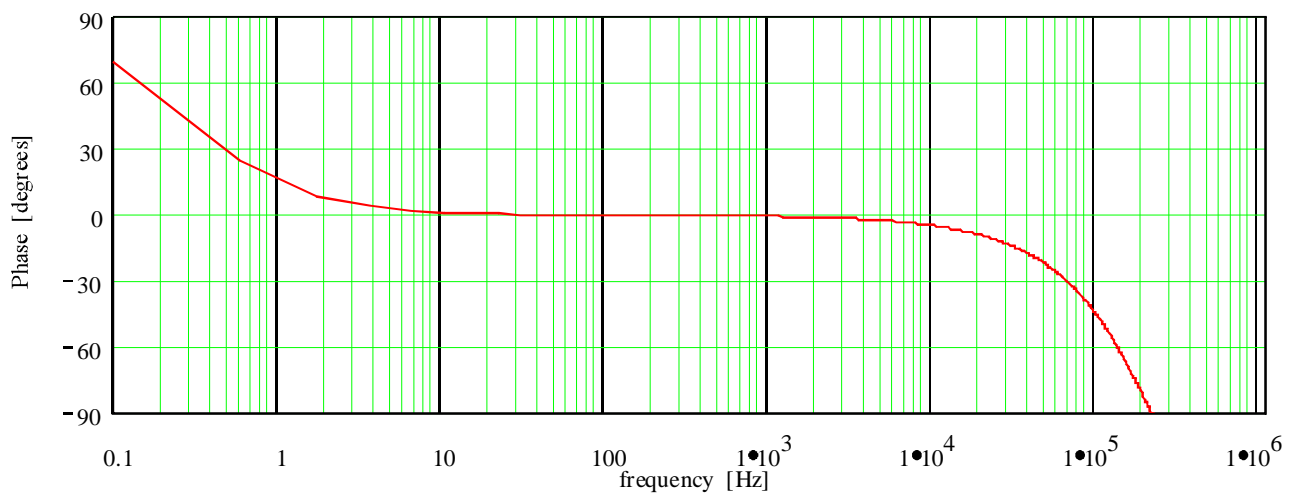
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TOROIDAL PUSH-PULL TUBE OUTPUT TRANSFORMER ; VDV-PP300B

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

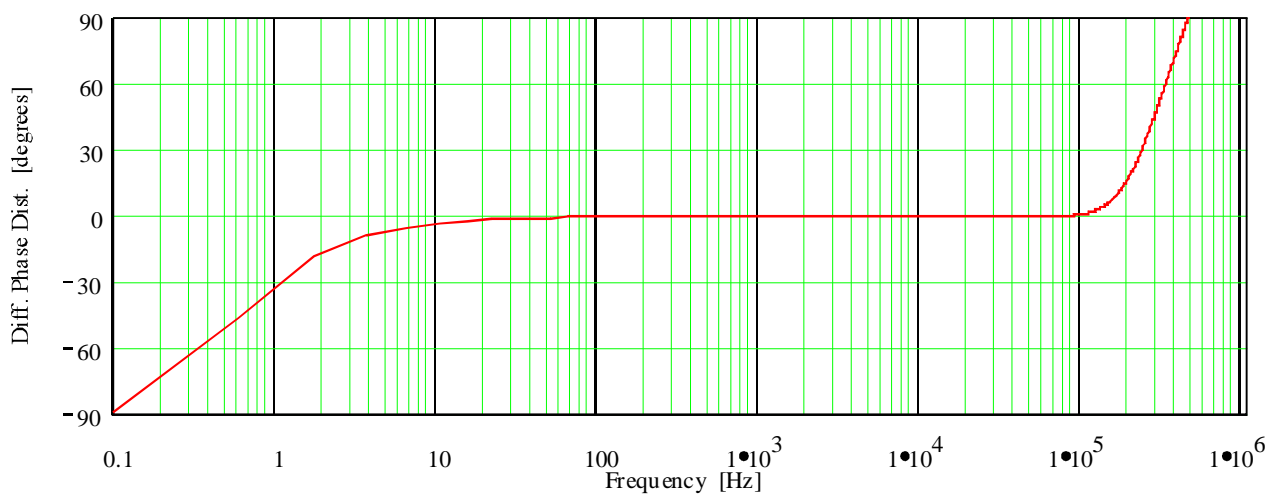


Phase Response; Vertical 30 deg./div; Horizontal .1 Hz to 1 MHz



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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