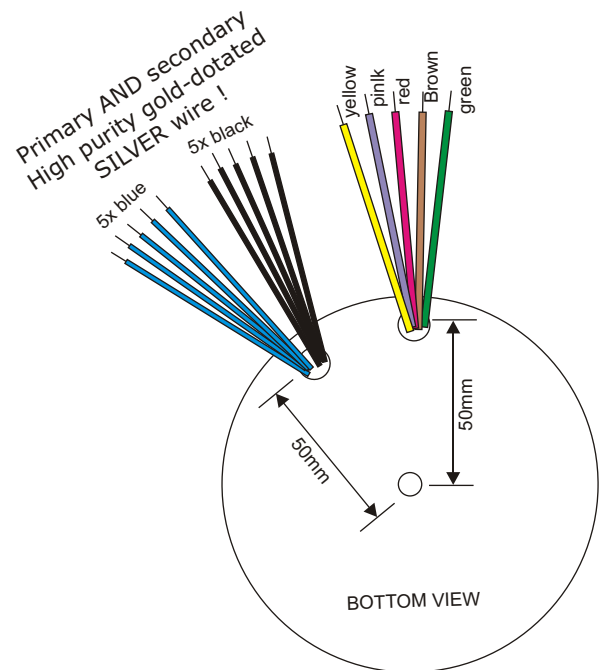


VANDERVEEN WIDE BANDWIDTH TOROIDAL PUSH-PULL OUTPUT TRANSFORMER

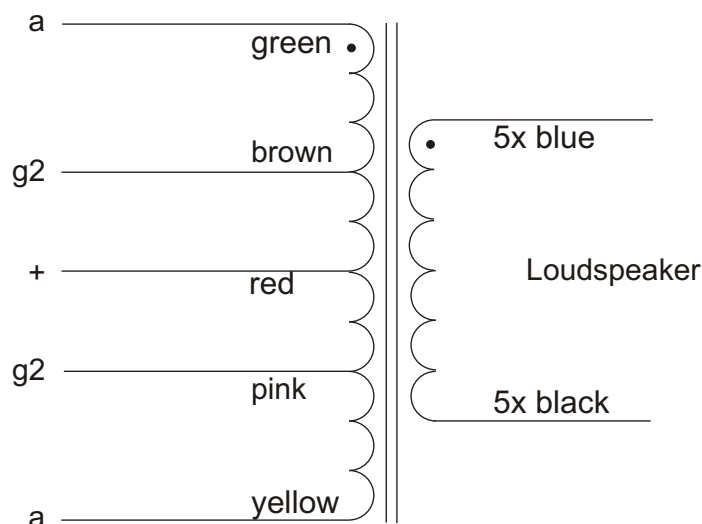
Type and Application	:	VDV2100SIL2PP	
Primary Impedance	:	Raa 1.885	[k]
Secondary Impedance	:	RI s 5	[]
Turns Ratio Np/Ns	:	Ratio 19.417	[]
Ultra Linear Tapping at	:	tap 40	[%]
-1 dB Frequency Range [Hz to kHz] (3):		f1f 1.69	f1f 65.518
-1 dB Frequency Range [Hz to kHz] (3):		f1l 0.721	f1l 128.416
-3 dB Frequency Range [Hz to kHz] (3):		f13 0.367	f13 203.942
Nominal Power (1)	:	Pn 100	[W]
- 3 dB Power Bandwidth starting at	:	fu 20.7	[Hz]
Total primary Inductance (2)	:	Lp 583	[H]
Primary Leakage Inductance	:	lsp 1.06	[mH]
Effective Primary Capacitance	:	cip 0.664	[nF]
Total Primary DC Resistance	:	Rip 97.4	[]
Total Secondary DC Resistance	:	Ris 0.304	[]
Tubes Plate Resistance per section	:	ri 2	[k]
Insertion Loss	:	lloss 0.463	[dB]
Q-factor 2nd order HF roll-off (5)	:	Q 0.625	[]
HF roll-off Specific Frequency (5)	:	Fo 234.215	[kHz]
Quality Factor (5)	:	QF 5.5•10 ⁵	[]
Quality Decade Factor = log(QF) (5)	:	QDF 5.74	[]
Tuning Factor (5)	:	TF 1.011	[]
Tuning Decade Factor = log(TF) (5)	:	TDF 4.642•10 ⁻³	[]
Frequency Decade Factor (4,5)	:	FDF 5.745	[]

- (1): calculated under the conditions of balancing the DC-currents and the AC-anode voltages of the power tubes driving the transformer
 (2): maximum value, measured over secondary, transfered to primary
 (3): calculation at 1 mWatt in RI s; ri and RI s are pure Ohmic
 (4): defined as $FDF = \log(fh3/f13)$ = 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; design date.....

DESIGNED BY
VANDERVEEN



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



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HB

08-11-2003

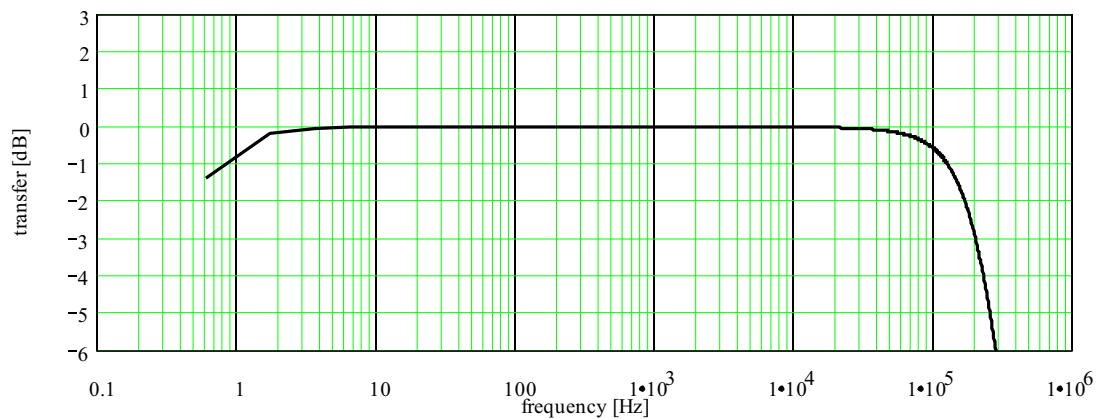
VDV2100SIL2PP

Wide bandwidth toroidal
 push-pull tube output transformer
 with pure SILVER windings

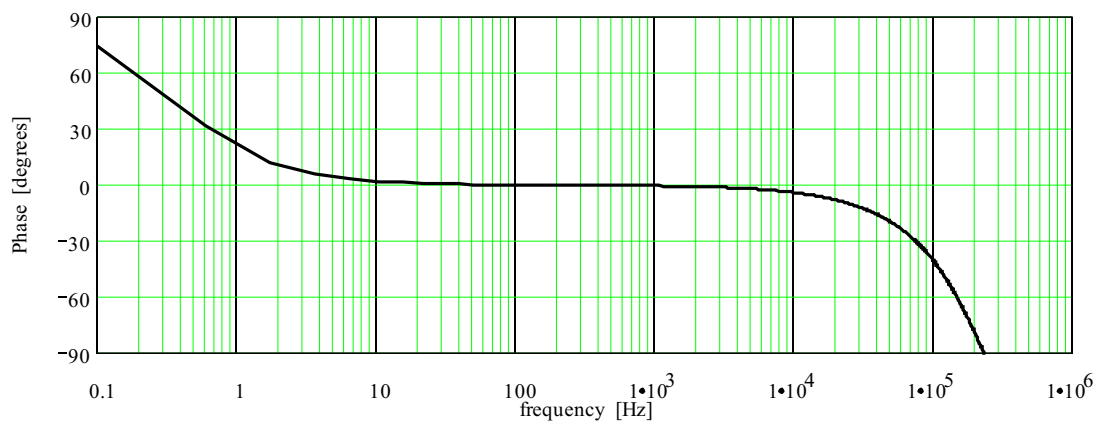
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VANDERVEEN TOROIDAL PUSH-PULL OUTPUT TRANSFORMER ; VDV2100SIL2PP

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

