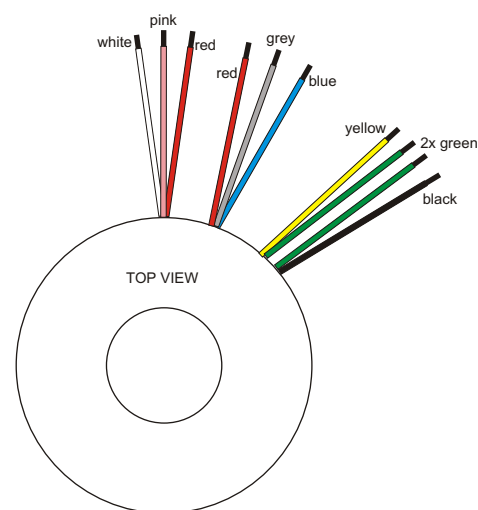


WIDE BANDWIDTH TORODAL PUSH-PULL TUBE OUTPUT TRANSFORMER

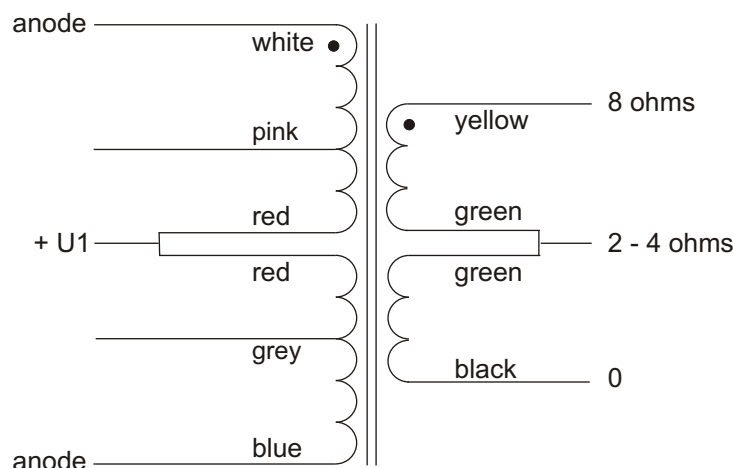
Type and Application	:	XC462: VDV-UL dedicated design.	
Primary Impedance	:	Raa 2.47	[k]
Secondary Impedance	:	Rls 8	[]
Turns Ratio Np/Ns	:	Ratio 17.57	[]
Ultra Linear Tapping at	:	tap 33	[%]
-1 dB Frequency Range [Hz to kHz] (3):		flf 2.528	fhf 48.137
-1 dB Frequency Range [Hz to kHz] (3):		fl1 1.078	fh1 77.549
-3 dB Frequency Range [Hz to kHz] (3):		fl3 0.549	fh3 111.535
Nominal Power (1)	:	Pn 100	[W]
-3 dB Power Bandwidth starting at	:	fu 20	[Hz]
Total primary Inductance (2)	:	Lp 452	[H]
Primary Leakage Inductance	:	lsp 3.35	[mH]
Effective Primary Capacitance	:	cip 0.954	[nF]
Total Primary DC Resistance	:	Rip 112.8	[]
Total Secondary DC Resistance	:	Ris 0.126	[]
Tubes Plate Resistance per section	:	ri 2	[k]
Insertion Loss	:	lloss 0.259	[dB]
Q-factor 2nd order HF roll-off (5)	:	Q 0.689	[]
HF roll-off Specific Frequency (5)	:	Fo 114.542	[kHz]
Quality Factor (5)	:	QF 1.349·10 ⁵	[]
Quality Decade Factor = log(QF) (5)	:	QDF 5.13	[]
Tuning Factor (5)	:	TF 1.507	[]
Tuning Decade Factor = log(TF) (5)	:	TDF 0.178	[]
Frequency Decade Factor (4,5)	:	FDF 5.308	[]

DESIGNED BY
VANDERVEEN



- (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, transferred to 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 derVeen; Theory and Practice 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 two red wires together
 Always connect the two green wires together
 Diameter approx. 113mm
 Height approx. 60mm
 Lead length approx. 200mm
 Lead type solid
 Mounting kit supplied



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HB

27-2-2003

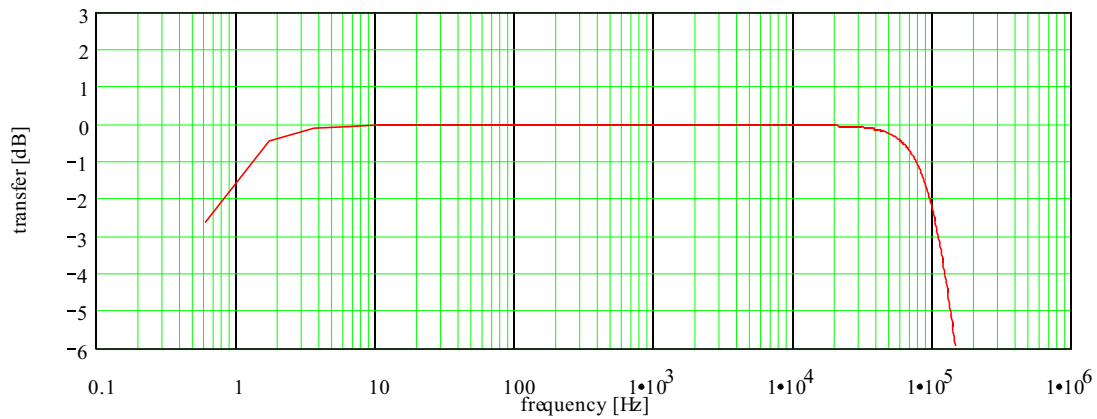
XC462

wide bandwidth toroidal
 tube output transformer

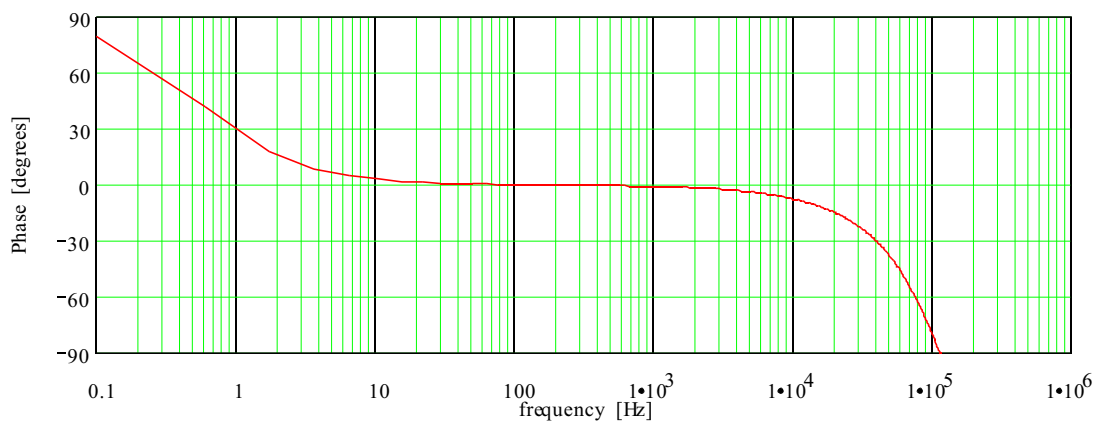
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WIDE BANDWIDTH TOROIDAL PUSH-PULL TUBE OUTPUT TRANSFORMER ; XC462

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

