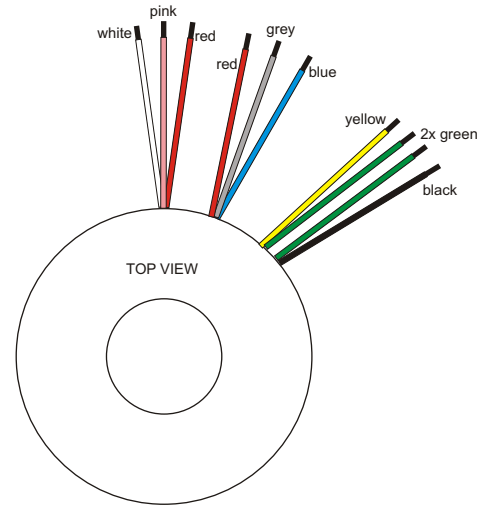


WIDE BANDWIDTH TOROIDAL PUSH-PULL TUBE OUTPUT TRANSFORMER

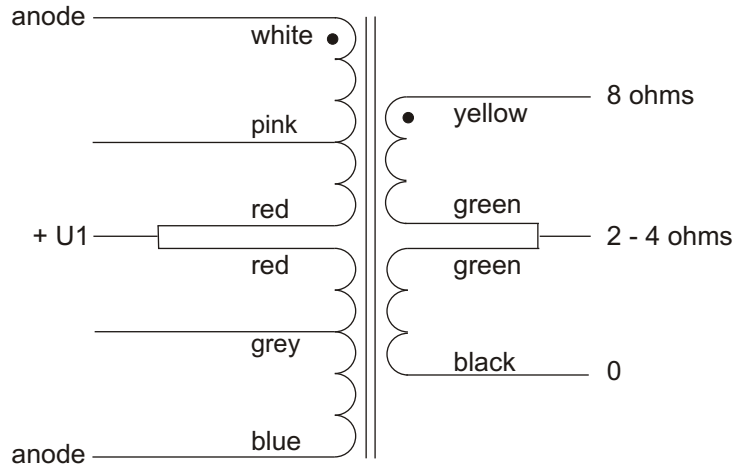
Type and Application	:	XC462: VDV-UL dedicated design.
Primary Impedance	:	Raa 2.47 [k]
Secondary Impedance	:	Rls 8 []
Turns Ratio Np/Ns	:	Ratio 17.57 []
Ultra Linear Tapping at	:	tap 33 [%]
-1 dB Frequency Range [Hz to kHz] (3):	:	f1f 2.528 fhf 48.137
-1 dB Frequency Range [Hz to kHz] (3):	:	f1l 1.078 fh1 77.549
-3 dB Frequency Range [Hz to kHz] (3):	:	f13 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 powertubes 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/f13) = 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
- (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



Use only one tap at a time !



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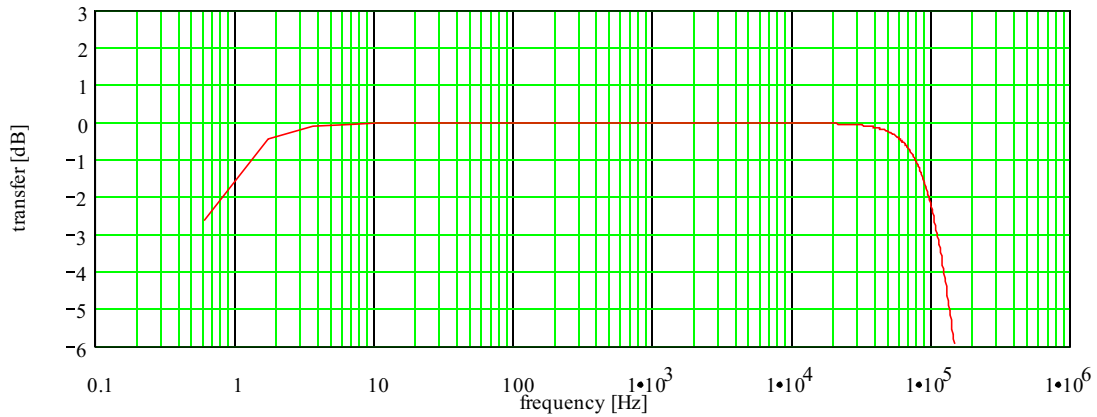
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XC462

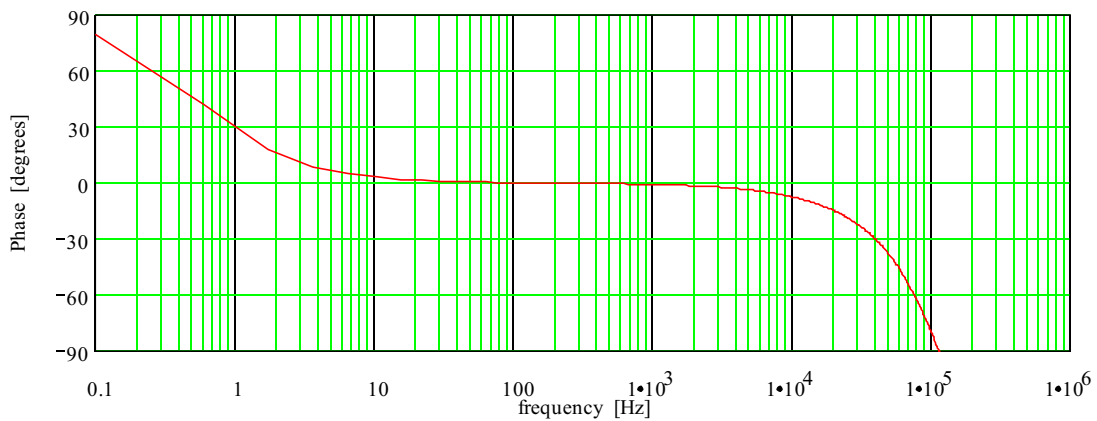
wide bandwidth toroidal
tube output transformer

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

