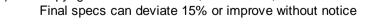
SPECIALIST TOROIDAL PUSH-PULL OUTPUT TRANSFORMER

Type and Application	:	VDV-2100-CFBH-PPS	
Primary Impedance	:	Raa = 1.995	[kΩ]
Secondary Impedance	:	RIs = 5	[Ω]
Turns Ratio Np/Ns	:	Ratio = 19.976	[]
UL-tap	:	tap = 33	[%]
Cathode Feedback Ratio	:	cfb = 10	[%]
1 dB Frequency Range [Hz to kHz] (3)	:	flf = 1.815	fhf = 126.37
-1 dB Frequency Range [Hz to kHz] (3)	:	fl1 = 0.774	fh1 = 222.734
-3 dB Requency Range [Hz to kHz] (3)	:	fI3 = 0.394	fh3 = 332.948
Nominal Power (1)	:	Pn = 100	[W]
- 3 dB Power Bandwidth starting at	:	fu = 28	[Hz]
Total primary Inductance (2)	:	Lp = 413	[H]
Primary Leakage Inductance	:	lsp = 0.94	[mH]
Effective Primary Capacitance	:	cip = 0.434	[nF]
Total Primary DC Resistance	:	Rip = 46.6	[Ω]
Total Secondary DC Resistance	:	Ris = 0.117	[Ω]
Tubes Plate Resistance per section	:	ri = 1	[kΩ]
Insertion Loss	:	lloss = 0.198	[dB]
Q-factor 2nd order HF roll-off (5)	:	Q = 0.663	[]
HF roll-off Specific Frequency (5)	:	Fo = 356.265	[kHz]
Quality Factor (5)	:	$QF = 4.394 \times 10^5$	[]
Quality Decade Factor = log(QF) (5)	:	QDF = 5.643	[]
Tuning Factor (5)	:	TF = 1.924	[]
Tuning Decade Factor = log(TF) (5)	:	TDF = 0.284	[]
Frequency Decade Factor (4,5)	:	FDF = 5.927	[]

(1): calculated under the conditions of balancing the DC-currents

- and the AC-anode voltages of the powertubes driving the transformer
- (2): measured at 230Vrms at 50Hz over total primary
- (3): calculation at 1 Watt in RIs; ri and RIs are pure Ohmic
- (4): defined as FDF = log(fh3/fl3) = 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; results date 29-08-2011.





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