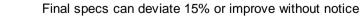
## SPECIALIST TOROIDAL PUSH-PULL OUTPUT TRANSFORMER

Type and Application	:	VDV-4070-SSCR-PPS	
Primary Impedance	:	Raa = 3.998	[kΩ]
Secondary Impedance	:	RIs = 4	[Ω]
Turns Ratio Np/Ns	:	Ratio = 31.615	[]
UL-tap	:	tap = 40	[%]
Cathode Feedback Ratio	:	cfb = 0	[%]
1 dB Frequency Range [Hz to kHz]	(3) :	flf = 2.987	fhf = 41.705
-1 dB Frequency Range [Hz to kHz]	(3) :	fl1 = 1.274	fh1 = 82.574
-3 dB Requency Range [Hz to kHz]	(3) :	fI3 = 0.648	fh3 = 132.113
Nominal Power (1)	:	<b>Pn</b> = 70	[VV]
- 3 dB Power Bandwidth starting at	:	fu = 14	[Hz]
Total primary Inductance (2)	:	Lp = 668	[H]
Primary Leakage Inductance	:	lsp = 3.2	[mH]
Effective Primary Capacitance	:	cip = 0.514	[nF]
Total Primary DC Resistance	:	<b>Rip</b> = 86	[Ω]
Total Secondary DC Resistance	:	<b>Ris</b> = 0.104	[Ω]
Tubes Plate Resistance per section	:	<b>ri</b> = 4	[kΩ]
Insertion Loss	:	lloss = 0.202	[dB]
Q-factor 2nd order HF roll-off (5)	:	<b>Q</b> = 0.62	[]
HF roll-off Specific Frequency (5)	:	<b>Fo</b> = 153.174	[kHz]
Quality Factor (5)	:	$QF = 2.087 \times 10^5$	[]
Quality Decade Factor = $log(QF)$ (5)	:	<b>QDF</b> = 5.32	[]
Tuning Factor (5)	:	TF = 0.976	[]
Tuning Decade Factor = log(TF) (5)	:	TDF = -0.011	[]
Frequency Decade Factor (4,5)	:	FDF = 5.309	[]

(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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