



DESCRIPTION

An efficient and compact electrical audio component, the VTX-146-0001 Series is specifically used in audio equipment to convert high-voltage AC mains power into the required voltages suitable for use by audio circuits. Its toroidal (donut-shaped) core design minimises electromagnetic interference (EMI) and hum, resulting in cleaner power delivery and improved sound quality. It is favoured in high-fidelity audio systems for its low noise, high efficiency, and compact size. These toroidals are made with 2 layers of GOSS band sheilding for added noise elimination.

- ✓ Audio grade 4 grain orientated silicone steel core
- ✓ 2 layer GOSS band sheilding
- ✓ Silent operation and high efficiency (83% +)
- ✓ Centre potted with captive nut in centre
- ✓ Wide input voltage range from 110 to 240V AC



SELECTION GUIDE

Part Number	Power (VA)	Output Voltage (V)			Output Current (A)			Temp. Rise (C)	Reg. (%)	Height x Dia. (mm)	Weight (kg)
VTX-146-0001-60	60	250 + 250	3.15 + 3.15	0 + 5	0.08	2	1.5	45	12.5	46 x 102	1.3
VTX-146-0001-75	75	0 + 250	0 + 250	3.15 + 3.15	0.1	0.1	4	45	11.3	48 x 103	1.32
VTX-146-0001-115	115	300 + 300	3.15 + 3.15	0 + 6.3	0.15	3	1	55	10	52 x 107	1.7
VTX-146-0001-185	185	280 + 280	3.15 + 3.15	0 + 12	0.26	5	0.5	65	8.5	59 x 113	2.2
VTX-146-0001-200	200	425 + 425	3.15 + 3.15	0 + 5	0.19	4	3	65	8	59 x 118	2.5
VTX-146-0001-2001	200	425 + 425	3.15 + 3.15	0 + 80	0.19	4	0.18	65	8	59 x 118	2.4
VTX-146-0001-250	250	390 + 390	3.15 + 3.15	0 + 6.3	0.24	6	4	65	7	64 x 123	3.05
VTX-146-0001-290	290	425 + 425	3.15 + 3.15	3.15 + 3.15	0.25	2	2	65	7	65 x 129	3.35
		0 + 8.5	0 + 8.5	0 + 5	2	2	3				

SPECIFICATION

Parameter	Condition/ Test	Minimum	Typical	Maximum	Units
Input Voltages			110/ 120/ 220/ 230/ 240		V AC
Output Voltages	Loaded voltage	-5%	See Selection Guide	+5%	V AC
Power Rating			60 - 290		VA
Frequency			50/ 60		Hz
Efficiency			See Selection Guide	83	%
Operating Temperature Range		-20		70	°C
Insulation: Hi-pot Test			4000		Vrms AC
Max Temperature Rise	Ta=25 °C. Test by resistance method		65		°C
Dimensions			See Selection Guide	+0.0	mm
Weight		-0.3	See Selection Guide	+0.3	Kg
Core Material			Grade 4 silicon steel 27Q120		
Magnetic Shield			GOSS band 2 layers		
Mounting Type			Chassis Mount		
Termination Length			300 (Stripped & Tined 5mm)		
Accessories			Bolt, washer, spring washer		
Safety Standard		-5	Class II to EN61558	+5	mm



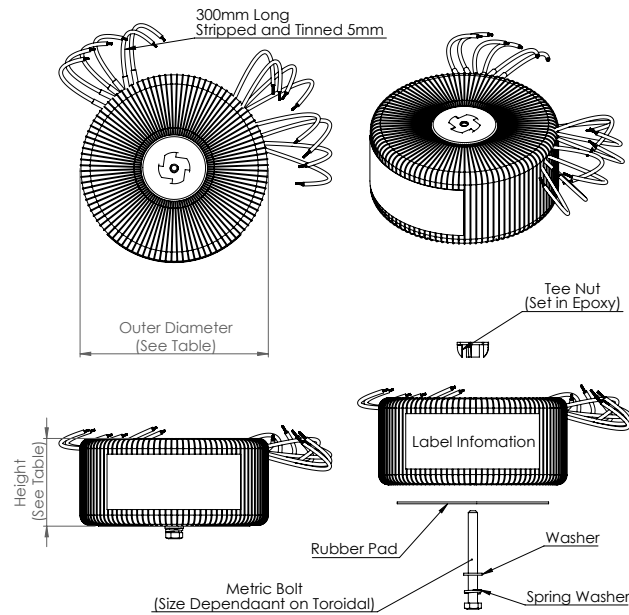
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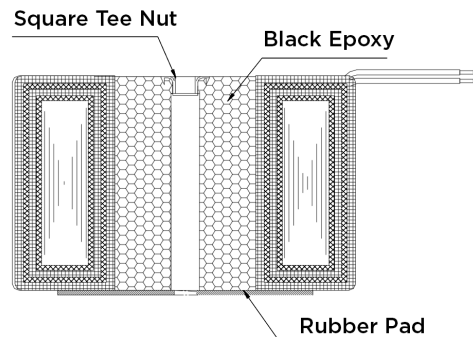
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110 - 240V Input Audio Mains Toroidal

AUDIO MAINS TOROIDAL
VTX-146-0001 SERIES

MECHANICAL DRAWING



CROSS SECTION



SCHEMATIC

INPUT

1. BLK. /RED -10V 10V
 2. BLU. 0V 110V
 3. BLK. 110V Fuse
 4. VIO. -10V 10V
 5. GRY. 0V 110V
 6. BRN. 110V Fuse
- 50/60Hz

60 VA

7. RED 250V/0.08A
8. WHI. 0V 250V/0.08A
9. RED 5V/1.5A
10. YEL. 11. ORG.
12. GRN. 3. 15V/2A
13. BLK. 0V 3. 15V/2A
14. GRN.

75 VA

7. WHI. 250V/0.1A
8. RED 250V/0.1A
9. YEL. 250V/0.1A
10. ORG. 12. GRN.
13. BLK. 0V 3. 15V/4A
14. GRN. 3. 15V/4A

115 VA

7. RED 300V/0.15A
8. WHI. 300V/0.15A
9. RED 6. 3V/1A
10. YEL. 11. ORG.
12. GRN. 3. 15V/3A
13. BLK. 3. 15V/3A
14. GRN.

185 VA

7. RED 280V/0.26A
8. WHI. 280V/0.26A
9. RED 12V/0.5A
10. YEL. 11. ORG.
12. GRN. 3. 15V/5A
13. BLK. 3. 15V/5A
14. GRN.

200 VA

7. RED 425V/0.19A
8. WHI. 425V/0.19A
9. RED 5V/3A
10. YEL. 11. ORG.
12. GRN. 3. 15V/4A
13. BLK. 3. 15V/4A
14. GRN.

200(1) VA

7. RED 425V/0.19A
8. WHI. 425V/0.19A
9. RED 10. YEL.
11. ORG. 80V/0.18A
12. GRN. 3. 15V/4A
13. BLK. 3. 15V/4A
14. GRN.

250 VA

7. RED 390V/0.24A
8. WHI. 390V/0.24A
9. RED 10. YEL.
11. ORG. 6. 3V/4A
12. GRN. 3. 15V/6A
13. BLK. 3. 15V/6A
14. GRN.

290 VA

7. RED 425V/0.25A
8. WHI. 0V 425V/0.25A
9. RED 3. 15V/2A
10. GRN. 11. BLK. 0V
12. GRN. 3. 15V/2A
13. GRN. 3. 15V/2A
14. BLK. 0V 3. 15V/2A
15. GRN. 8. 5V/2A
16. YEL. 17. YEL.
18. ORG. 8. 5V/2A
19. ORG. 20. BLU.
21. BLU. 5V/3A



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