



DESCRIPTION

An efficient and compact electrical audio transformer, 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 shielding for added noise elimination.

- Audio grade grain orientated silicon steel core
- 2 layer GOSS band shielding
- 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)
		A	B	C	A	B	C				
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		mm
Weight			See Selection Guide		kg
Core Material			Audio grade grain oriented silicon steel 27Q120		
Magnetic Shield			GOSS band 2 layers		
Mounting Type			Chassis Mount		
Termination Length		-5	300 (Stripped & Tined 5mm)	+5	mm
Accessories			Bolt, washer, spring washer		



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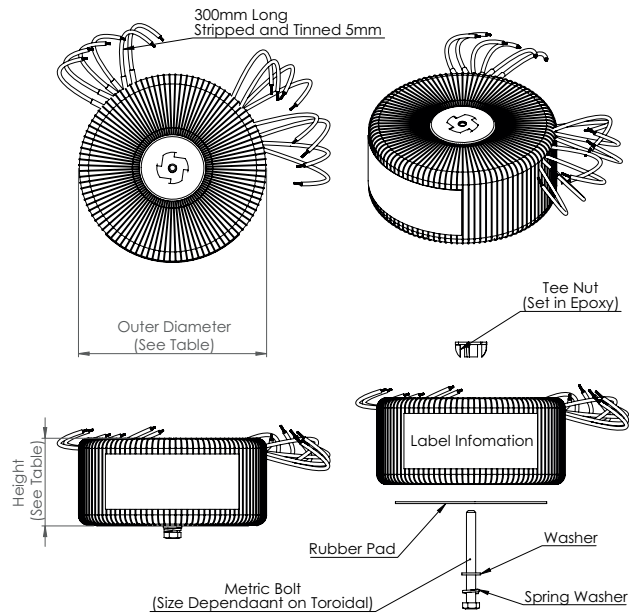
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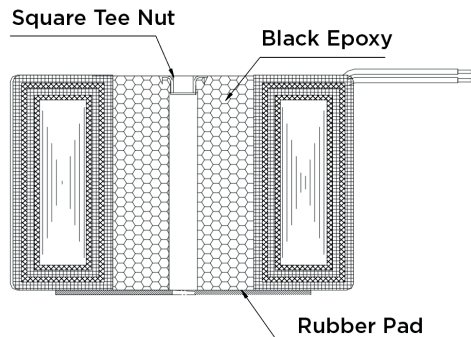
110 - 240V Input Audio Mains Toroidal

AUDIO MAINS TOROIDAL
VTX-146-0001 SERIES

MECHANICAL DRAWING

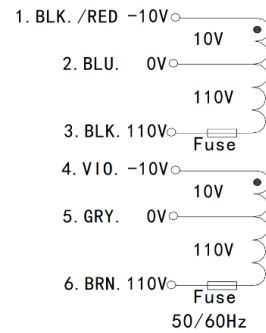


CROSS SECTION

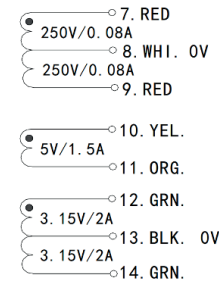


SCHEMATIC

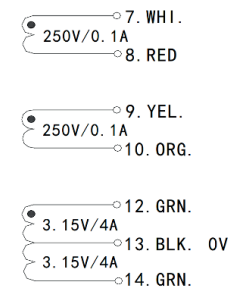
INPUT



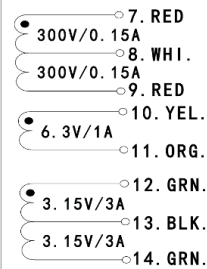
60 VA



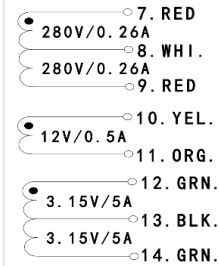
75 VA



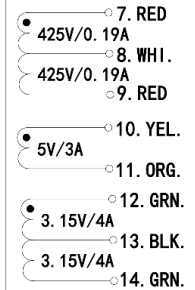
115 VA



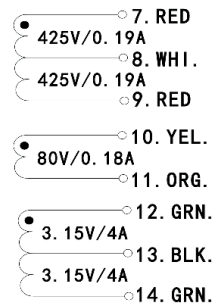
185 VA



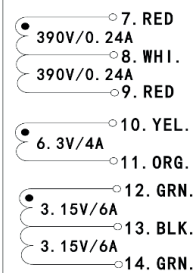
200 VA



200(1) VA



250 VA



290 VA

