

Audio Transformer

HS-50

Description:

Triad's **HS-50** Output Audio Transformer provides the durability and precision required in today's demanding designs. **Mu-Metal case** construction for magnetic field immunity and up to 95 dB Hum reduction. **Ample step-down turns ratio** to accommodate source to load impedance matching. **Wide range power handling capacity** to deliver full power without distortion within ± 3dB. Applications include signal pre-amplification, inter-stage isolation, signal level step up/down, and impedance matching. **Dependable** hermetically sealed construction with low temperature rise and high heat conductivity.

Electrical Specifications (@25°C)

Impedance		(0-0	- /	
Pri (Ω)	Sec (Ω)	Overall Turns Ratio	DCR (Ω)	Power level dBm
15K	600/250 150/62.5	5:1	1-2 = 1245 3-4 = 9.22 4-5 = 16.52 6-7 = 21.65 7-8 = 12.90	26

PARAMETER CONDITIONS		TYPICAL
Frequency Range		20 Hz – 20KHz
Gain	1kHz, Rs = 15kΩ, RL = 600Ω	-15.3 dB
Distortion (THD+N%)	1kHz, +24.5dBu input, Rs = 15kΩ, RL = 600Ω	0.008%
	1kHz, -0dBu input, Rs = 15kΩ, RL = 600Ω	0.004%
	1kHz, -20dBu input, Rs = 15kΩ, RL = 600Ω	0.03%
Max input level (20Hz)	2% THD + N%, Rs=15kΩ, RL = 600 Ω	>+20dBu
Frequency response (1 kHz Ref.)	20 Hz, RS=15kΩ, RL=600Ω	-0.80 dB
(TRIZITOL)	20kHz, RS=15kΩ, RL=600Ω	-0.075 dB
Phase Shift @ 20Hz	Reference to source generator $Rs = 15k\Omega$, $RL = 600\Omega$	+5°
Phase shift @ 20kHz	- 10x22, TC - 00022	0.23°
CMRR	60 Hz	86.3 dB
	1 kHz	86.4 dB
Inductance 1-2 =	1V @ 60Hz	150H Min.
Temperature Rating	Operation & Storage	0°C to 70°C

RoHS Compliance: As of manufacturing date February 2005, all standard products meet the requirements of 2011/65/EU, known as the RoHS initiative.

*Upon printing, this document is considered "uncontrolled". Please contact Triad Magnetics for the most current version.

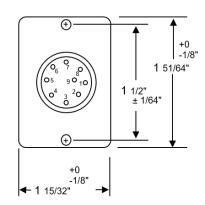
Web: www.TriadMagnetics.com Phone 951-277-0757

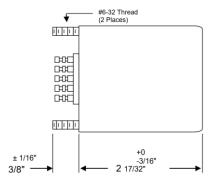
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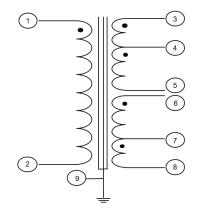
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For illustration purpose only



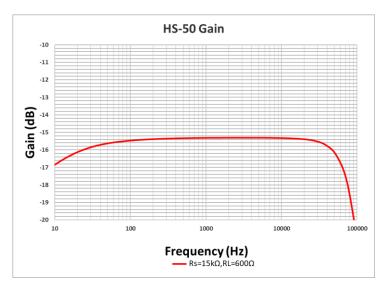


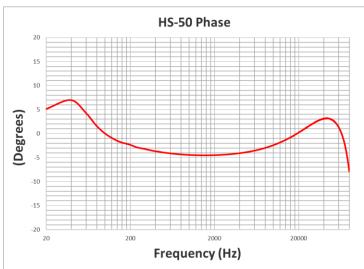


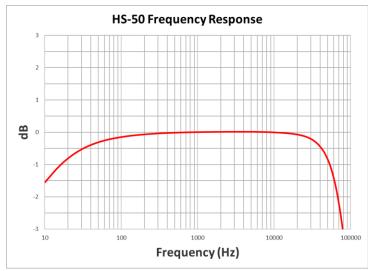
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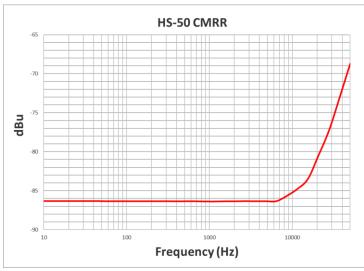


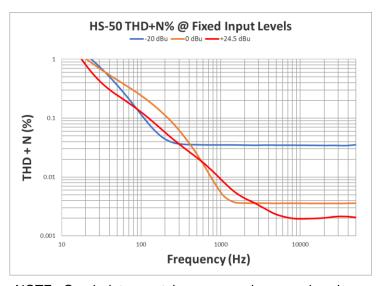
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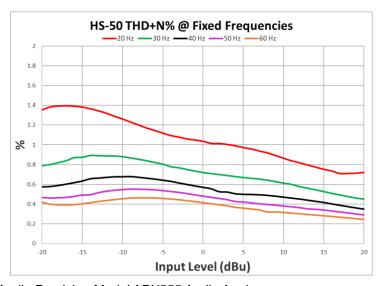












NOTE: Graph data was taken on a random sample using an Audio Precision Model APX555 Audio Analyzer.

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