

## **Audio Transformer**

## HS-4

## **Description:**

Triad's **HS-4** Input 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 turns ratios** 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, Impedance Matching, Inter-stage Isolation, Signal Level step up/down. **Dependable** hermetically sealed construction with low temperature rise and high heat conductivity.

Electrical Specifications (@25°C)

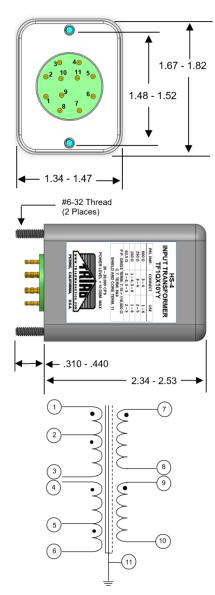
Impedance		0	DOD	Danier James
Pri (Ω)	Sec (Ω)	Overall Turns Ratio	DCR (Ω)	Power level dBm
600/250 150/62.5	118.5k	1:14	1-2 = 12 2-3 = 20 4-5 = 20 5-6 = 12 7-8 = 2.3k 9-10 =2.3k	10

DADAMETED	CONDITIONS	TVDICAL
<u>PARAMETER</u>	CONDITIONS	<u>TYPICAL</u>
Frequency Range		20 Hz – 20KHz
Gain	1kHz, Rs = $600\Omega$ , RL = $118.5$ kΩ	22 dB
Distortion (THD+N%)	1kHz, +10 dBu input, Rs = 600Ω, RL = 118.5kΩ	0.002%
	1kHz, +0dBu input, Rs = 600Ω, RL = 118.5kΩ	0.003%
	1kHz, -10dBu input, Rs = 600Ω, RL = 118.5kΩ	0.004%
Max input level (20Hz)	1% THD + N%, Rs=600Ω, RL = 118.5kΩ	+7dBu
Frequency response (1 kHz Ref.)	20 Hz, RS=600Ω, RL=118.5kΩ	-0.30 dB
(TRUETTON)	20kHz, RS=600Ω, RL=118.5kΩ	-2.5 dB
Phase Shift @ 20Hz	Reference to source generator Rs= 600Ω, RL = 118.5kΩ	+5.9°
Phase shift @ 20kHz	110-0001, 112-110.0111	2.2°
CMRR	60 Hz	119 dB
	1 kHz	99 dB
Temperature Rating	Operation & Storage	0°C to 70°C
Weight (grams)		250 Typ.

 $<sup>^{\</sup>star}$  Upon printing, this document is considered "uncontrolled". Please contact Triad Magnetics' website for the most current version.



For illustration purpose only



Web: www.TriadMagnetics.com

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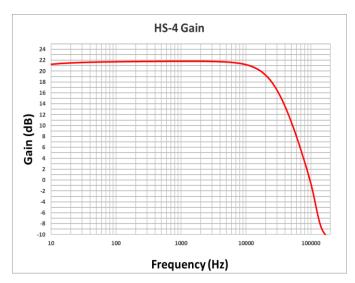
460 Harley Knox Blvd. Perris, California 92571

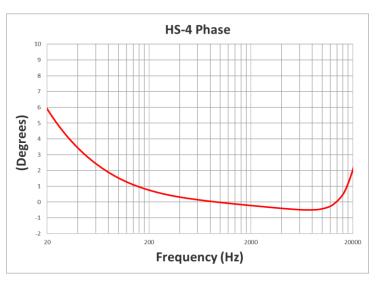
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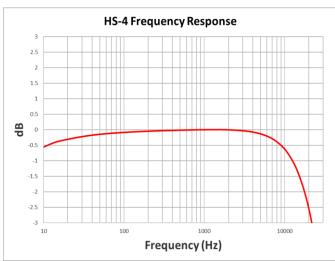
**SCHEMATIC** 

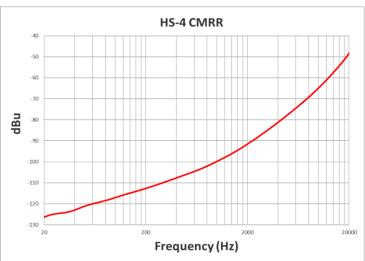


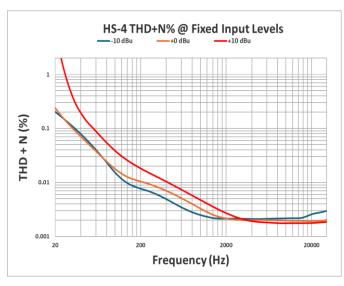
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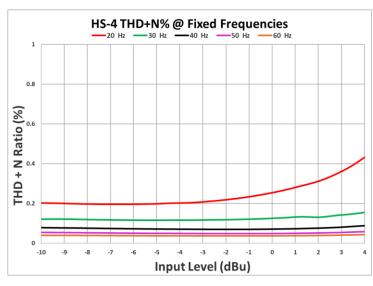












NOTE: Graph data was taken on a random sample using an Audio Precision Model APX555 Audio Analyzer.

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