

## **Audio Transformer**

## HS-1

## **Description:**

Triad's **HS-1** 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)

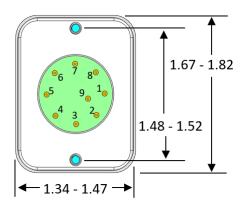
Impedance		Overall	DCB	Power level
Pri (Ω)	Sec (Ω)	Overall Turns Ratio	DCR (Ω)	(dBm)
600/250 150/62.5	77k	1:11.33	1-2 = 10.5 2-3 = 21 4-5 = 21 5-6 = 10.5 8-9 = 3.75k	10

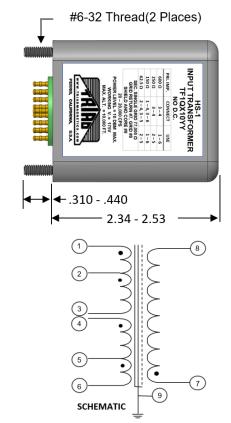
<u>PARAMETER</u>	CONDITIONS	TYPICAL
Frequency Range		20 Hz – 20KHz
Gain	1kHz, Rs = 600Ω, RL = 77kΩ	+19.84 dB
Distortion (THD+N%)	1kHz, +10 dBu input, Rs = $600\Omega$ , RL = $77k\Omega$	0.002%
	1kHz, +0dBu input, Rs = 600Ω, RL = 77kΩ	0.003%
	1kHz, -10dBu input, Rs = 600Ω, RL = 77kΩ	0.004%
Max input level (20Hz)	1% THD + N%, Rs=600Ω, RL = 77kΩ	+6dBu
Frequency response (1 kHz Ref.)	20 Hz, RS=600Ω, RL=77kΩ	-0.45 dB
(TRHZ Ref.)	20kHz, RS=600Ω, RL=77kΩ	-2.08 dB
Phase Shift @ 20Hz	Reference to source generator Rs= $600\Omega$ , RL = $77k\Omega$	+4.65°
Phase shift @ 20kHz	710-00011, 112-77101	0.67°
CMRR	60 Hz	96 dB
	1 kHz	72 dB
Temperature Rating	Operation & Storage	0°C to 70°C
Weight (grams)		250 Typ.

<sup>\*</sup> 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

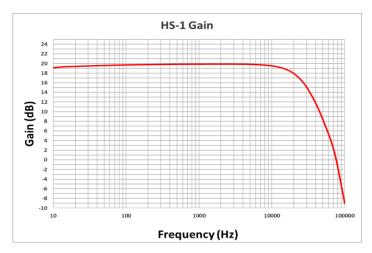
Phone 951-277-0757 Fax #: 951-277-2757

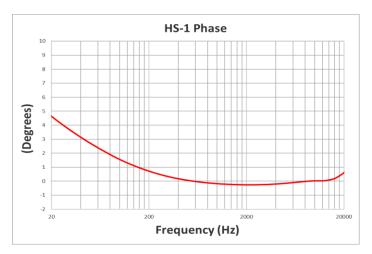
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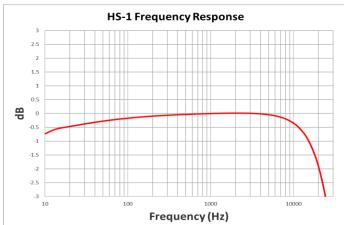
Publish Date: May 8, 2025

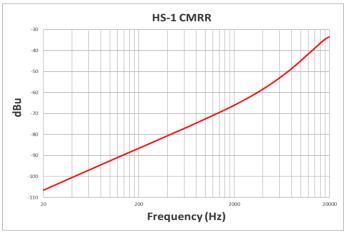


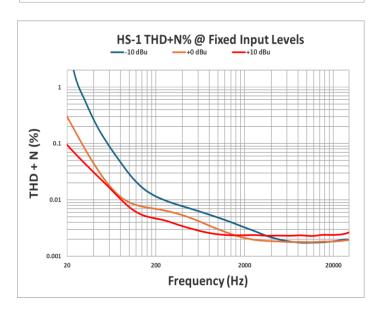
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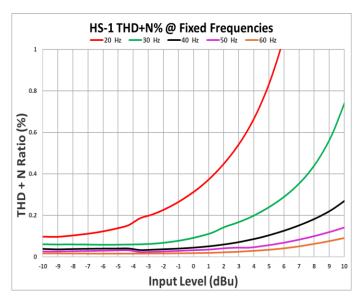












NOTE: Graph data was taken on a random sample using an Audio Precision Model APX555 Audio Analyzer.

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