

HS-56

Description:

Triad's **HS-56** 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 turns ratios** to accommodate source to load impedance matching. **Wide range power handling capacity** to deliver full power without distortion within ± 3 dB. 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		Overall Turns Ratio	DCR (Ω)	Power level dBm
Pri (Ω)	Sec (Ω)			
600/250 150/62.5	600/250 150/62.5	1:1	1-2 = 9.46 2-3 = 16.60 4-5 = 17.80 5-6 = 10.71 7-8 = 8.40 8-9 = 15.10 10-11 = 19.70 11-12 = 11.80	20

PARAMETER	CONDITIONS	TYPICAL
Frequency Range		10 Hz – 30KHz
Gain	1kHz, $R_s = 600\Omega$, $R_L = 600\Omega$	-1.5 dB
Distortion (THD+N%)	1kHz, +20 dBu input, $R_s = 600\Omega$, $R_L = 600\Omega$	0.01%
	1kHz, +10dBu input, $R_s = 600\Omega$, $R_L = 600\Omega$	0.01%
	1kHz, 0dBu input, $R_s = 600\Omega$, $R_L = 600\Omega$	0.007%
Max input level (10Hz)	2% THD + N%, $R_s = 600\Omega$, $R_L = 600\Omega$	>+15dBu
Frequency response (1 kHz Ref.)	10 Hz, $R_s = 600\Omega$, $R_L = 600\Omega$	-0.88 dB
	30kHz, $R_s = 600\Omega$, $R_L = 600\Omega$	-0.48 dB
Phase Shift @ 10Hz	Reference to source generator $R_s = 600\Omega$, $R_L = 600\Omega$	+10.35°
Phase shift @ 30kHz		1.90°
CMRR	60 Hz	104 dB
	1 kHz	79 dB
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.

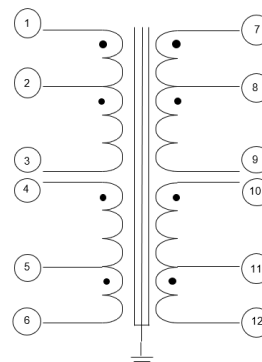
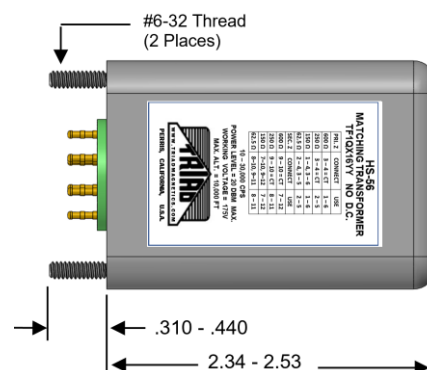
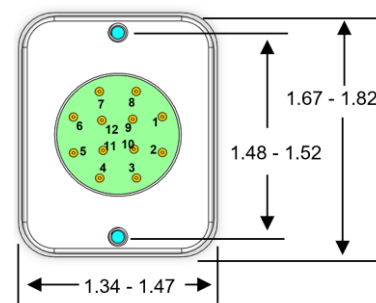
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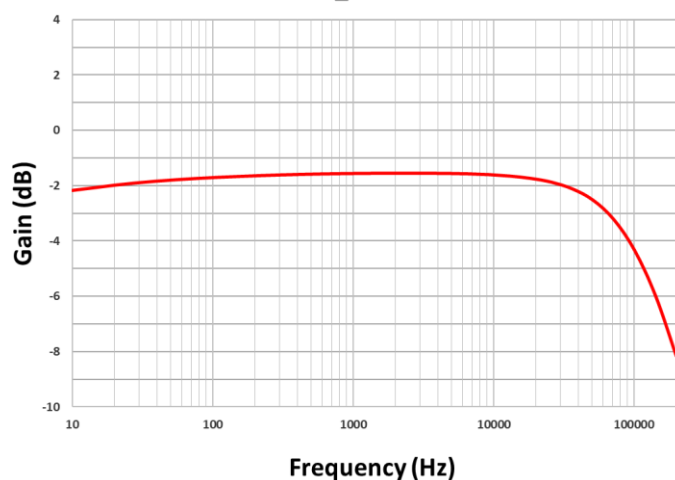


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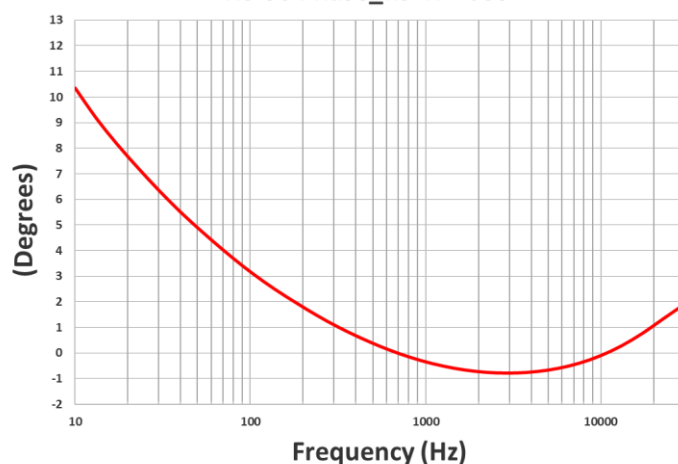


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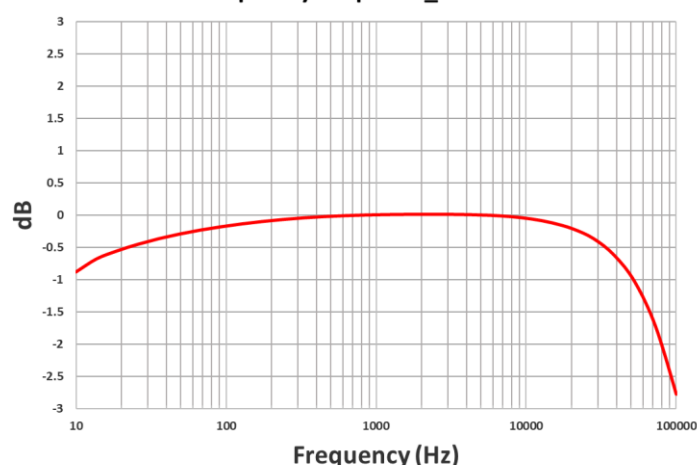
HS-56 Gain_Rs=RL=600Ω



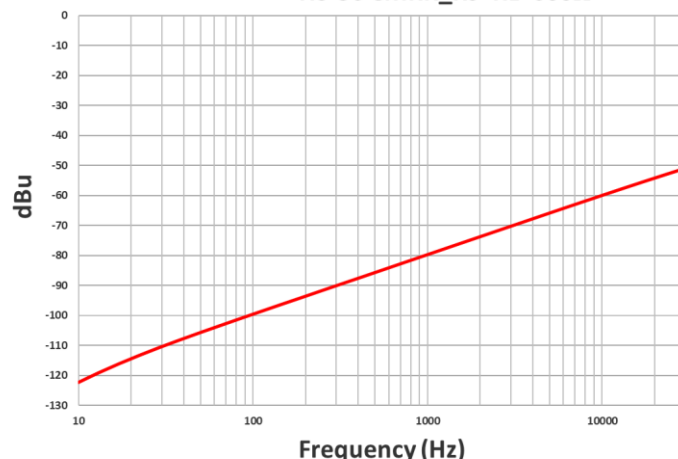
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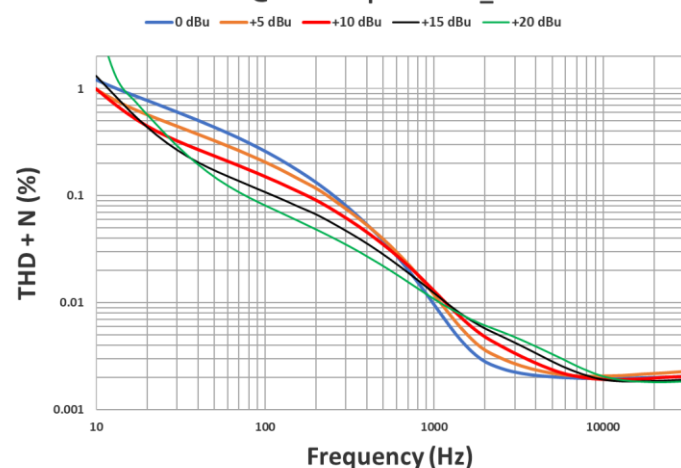
HS-56 Frequency Response_Rs=RL=600Ω



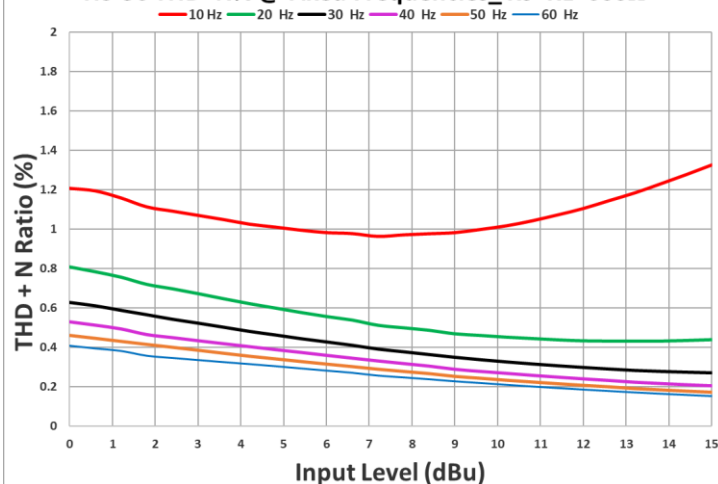
HS-56 CMRR_Rs=RL=600Ω



HS-56 THD+N% @ Fixed Input Levels_Rs=RL=600Ω



HS-56 THD+N% @ Fixed Frequencies_Rs=RL=600Ω



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