

HS-52

Description:

Triad's **HS-52** 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 ± 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)

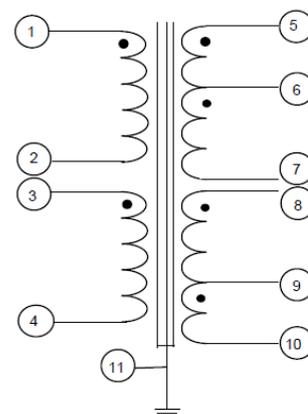
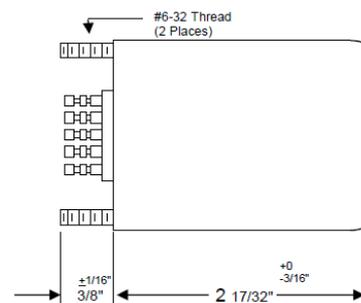
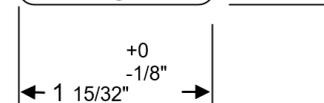
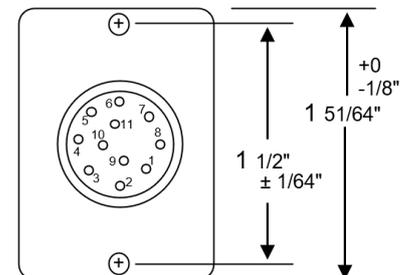
Impedance		Overall Turns Ratio	DCR (Ω)	Power level dBm
Pri (Ω)	Sec (Ω)			
20K/5K	600/250 150/62.5	5.6:1	1-2 = 410 3-4 = 615 5-6 = 3.23 6-7 = 5.82 8-9 = 7.37 9-10 = 4.50	26

PARAMETER	CONDITIONS	TYPICAL
Frequency Range	---	20 Hz – 20KHz
Gain	1kHz, $R_s = 20k\Omega$, $R_L = 600\Omega$	-15.6 dB
Distortion (THD+N%)	1kHz, +24.5dBu input, $R_s = 20k\Omega$, $R_L = 600\Omega$	0.009%
	1kHz, 0dBu input, $R_s = 20k\Omega$, $R_L = 600\Omega$	0.04%
	1kHz, -20dBu input, $R_s = 20k\Omega$, $R_L = 600\Omega$	0.4%
Max input level (20Hz)	2% THD + N%, $R_s = 20k\Omega$, $R_L = 600\Omega$	>+20dBu
Frequency response (1 kHz Ref.)	20 Hz, $R_S = 20k\Omega$, $R_L = 600\Omega$	-1.35 dB
	20kHz, $R_S = 20k\Omega$, $R_L = 600\Omega$	0.00 dB
Phase Shift @ 20Hz	Reference to source generator $R_s = 20k\Omega$, $R_L = 600\Omega$	+8.3°
Phase shift @ 20kHz		0.06°
CMRR	60 Hz	86.4 dB
	1 kHz	85.6 dB
Inductance 1-4 (2+3) =	5V @ 60Hz	400H Min.
Dielectric Test	1000V @ 60Hz	---
Temperature Rating	Operation & Storage	0°C to 70°C
Weight (grams)	---	338 Typ.

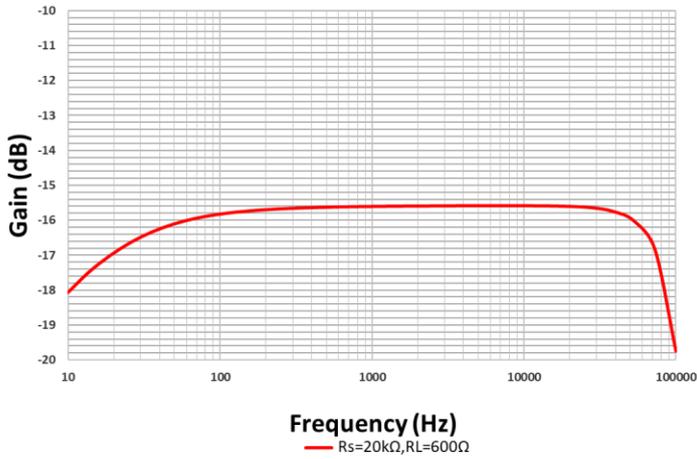
* Upon printing, this document is considered "uncontrolled". Please contact Triad Magnetics' website for the most current version.



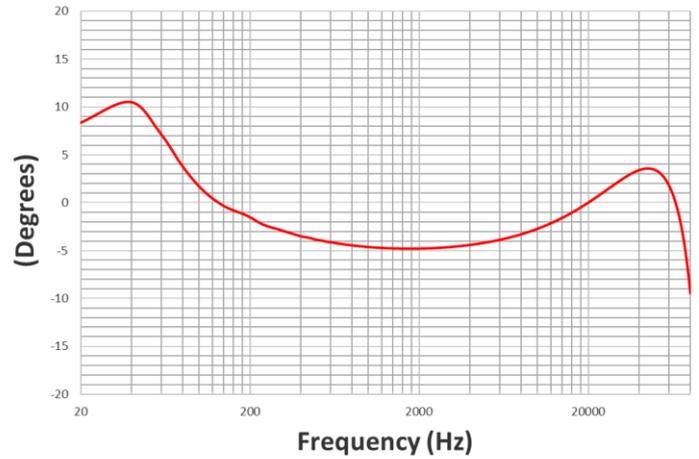
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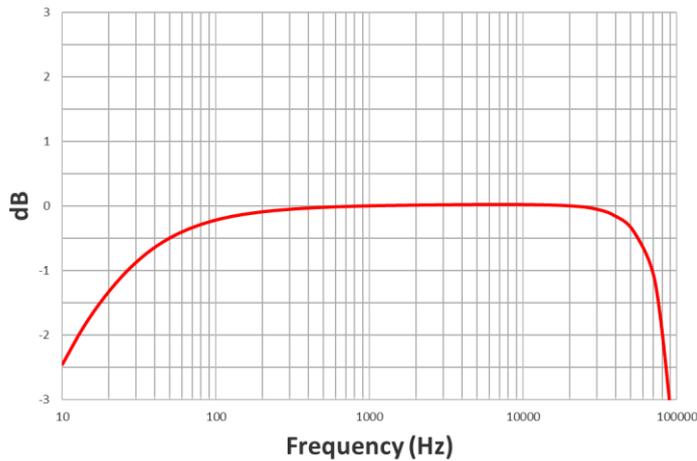
HS-52 Gain



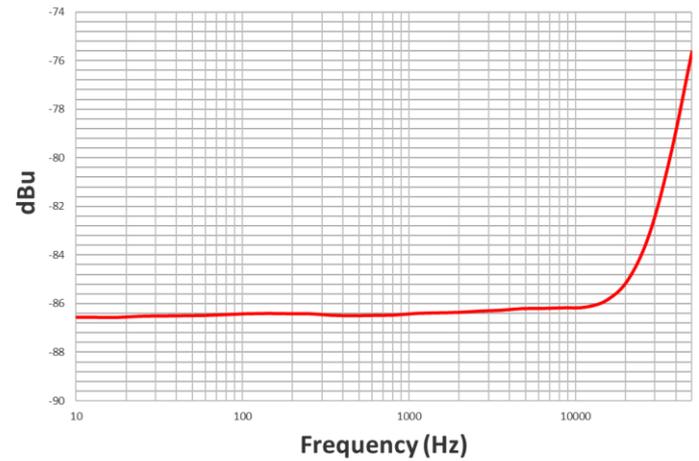
HS-52 Phase



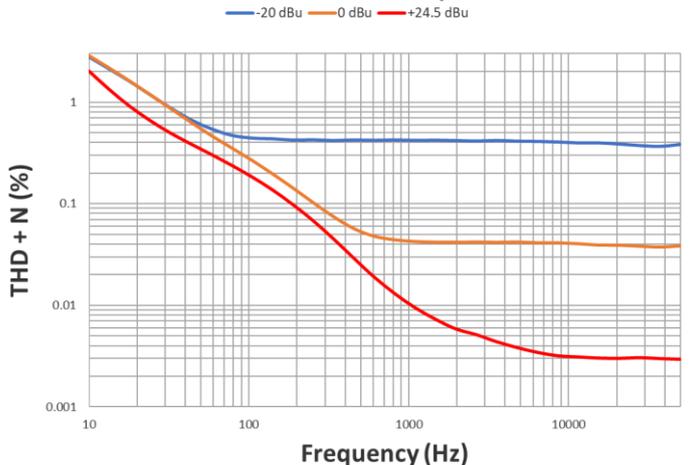
HS-52 Frequency Response



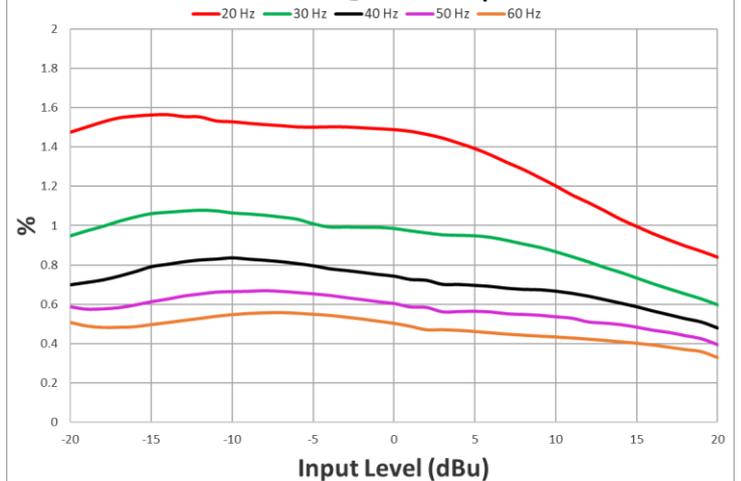
HS-52 CMRR



HS-52 THD+N% @ Fixed Input Levels



HS-52 THD+N% @ Fixed Frequencies



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