

HS-27

Description:

Triad's **HS-27** Interstage Audio Transformer provides the durability and precision required in vintage and today's demanding designs. **Mu-Metal case** construction for magnetic field immunity and up to 95 dB Hum reduction. **Step-up turns ratio** to accommodate impedance matching. **Power handling capacity** to deliver full power without distortion within ± 3 dB. **Dependable** hermetically sealed construction with low temperature rise and high heat conductivity. **Applications include** signal gain or attenuation, inter-stage isolation, impedance matching, unbalanced to balanced signal conversion, and reduction of thump transmission

Electrical Specifications (@25°C)

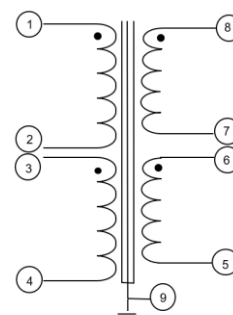
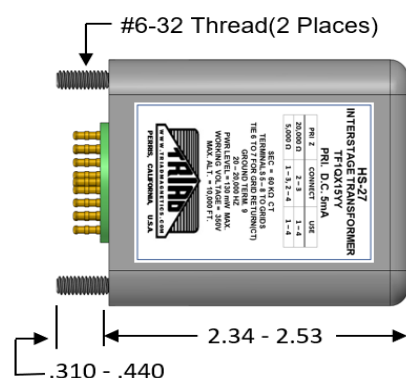
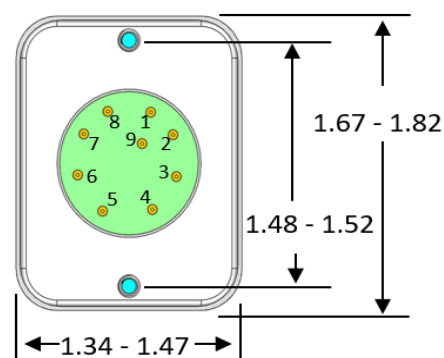
Impedance		Overall Turns Ratio	DCR (Ω)	Power level (mW)
Pri (Ω)	Sec (Ω)			
20K/5k	60k/15k	1:1.72	1-2 = 771 3-4 = 864 6-5 = 2346 8-7 = 3230	130

PARAMETER	CONDITIONS	TYPICAL
Frequency Range	---	20 Hz – 20KHz
Gain	1kHz, $R_s = 20k\Omega$, $R_L = 60k\Omega$	3.5 dB
Distortion (THD+N%)	1kHz, +24.5dBu input, $R_s = 20k\Omega$, $R_L = 60k\Omega$	0.004%
	1kHz, 14.5dBu input, $R_s = 20k\Omega$, $R_L = 60k\Omega$	0.004%
	1kHz, 4.5dBu input, $R_s = 20k\Omega$, $R_L = 60k\Omega$	0.002%
Max input level (20Hz)	1% THD + N%, $R_s = 20k\Omega$, $R_L = 60k\Omega$	>+25dBu
Frequency response (1 kHz Ref.)	20 Hz, $R_s = 20k\Omega$, $R_L = 60k\Omega$	-0.25 dB
	20kHz, $R_s = 20k\Omega$, $R_L = 60k\Omega$	-0.88 dB
Phase Shift @ 20Hz	Reference to source generator $R_s = 20k\Omega$, $R_L = 60k\Omega$	+5.6°
Phase shift @ 20kHz		3.04°
CMRR	60 Hz	80 dB
	1 kHz	66 dB
Inductance	.1V @ 20Hz 1-4 (short 2 & 3)	300 H MIN
Dielectric Test	1000V @ 60Hz	---
Temperature Rating	Operation & Storage	0°C to 70°C
Weight (grams)	---	295 Typ.

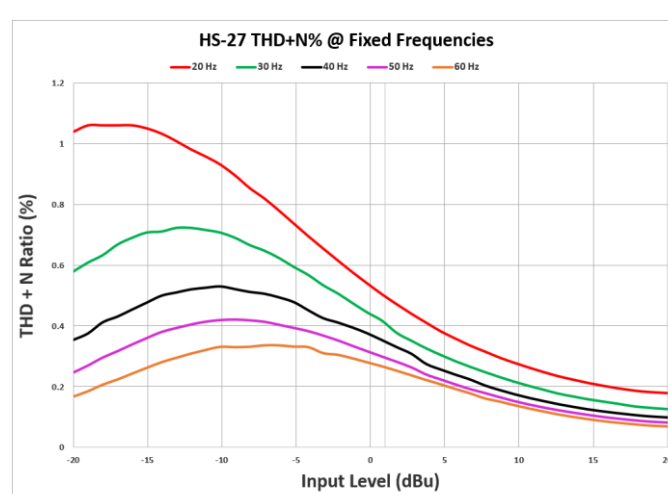
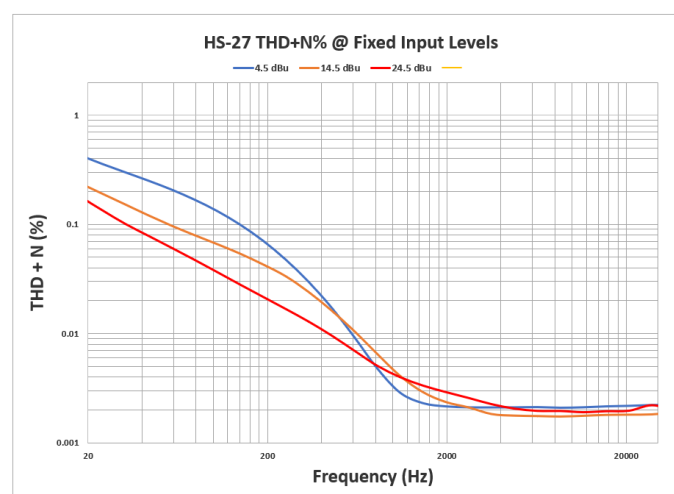
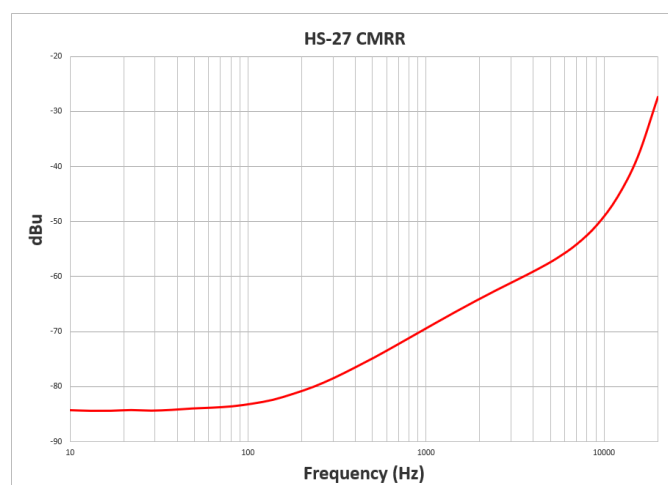
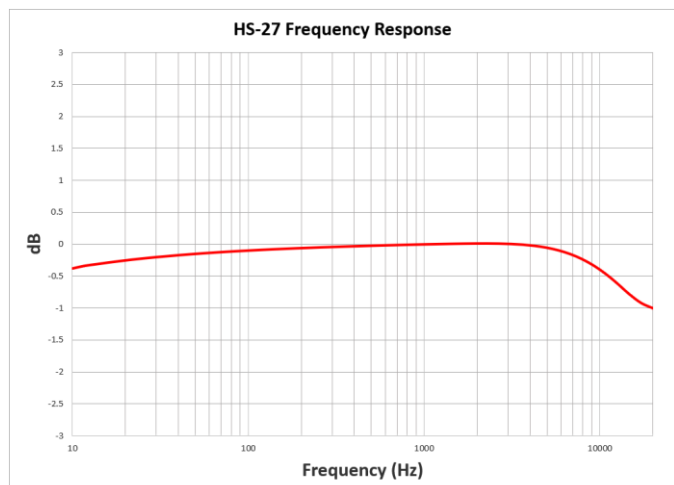
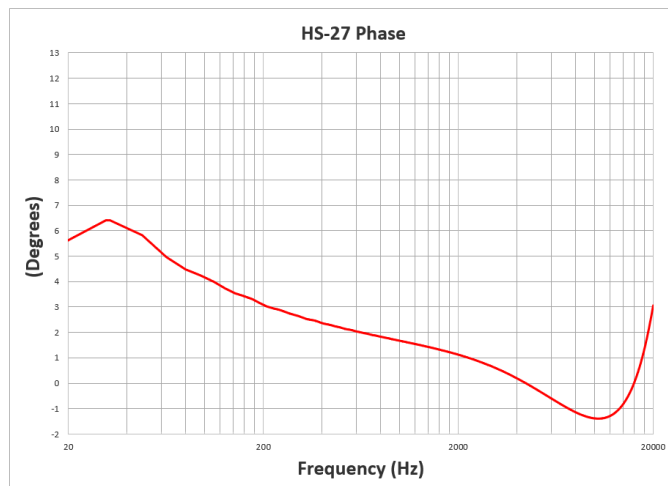
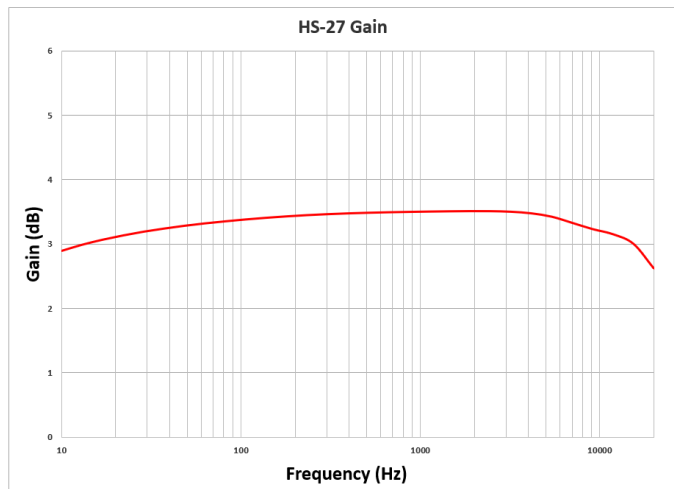
*Upon printing, this document is considered "uncontrolled". Please contact Triad Magnetics' website for the most current version.



For illustration purpose only



SCHEMATIC



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