HS-56

Description:

Triad's **HS-56** Impedance Matching 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: Impedance matching, signal pre-amplification, inter-stage isolation, signal level step up/down. **Dependable** hermetically sealed construction with low temperature rise and high heat conductivity.
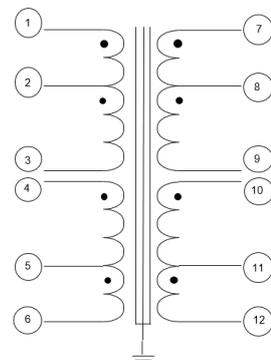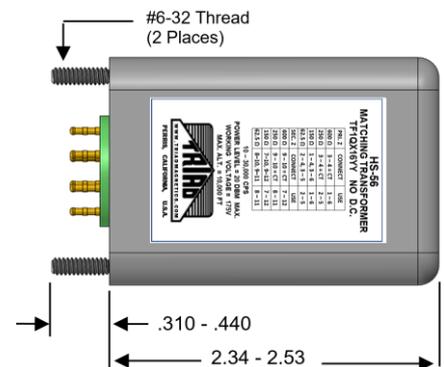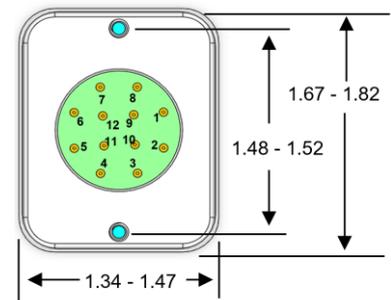
Electrical Specifications (@25°C)

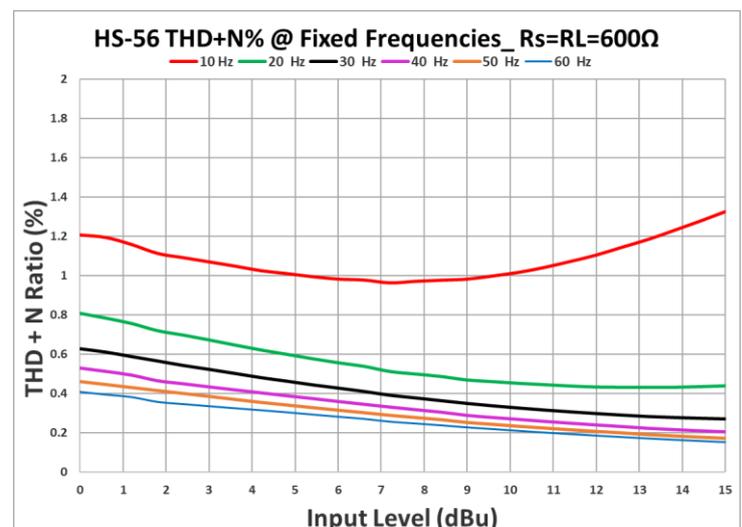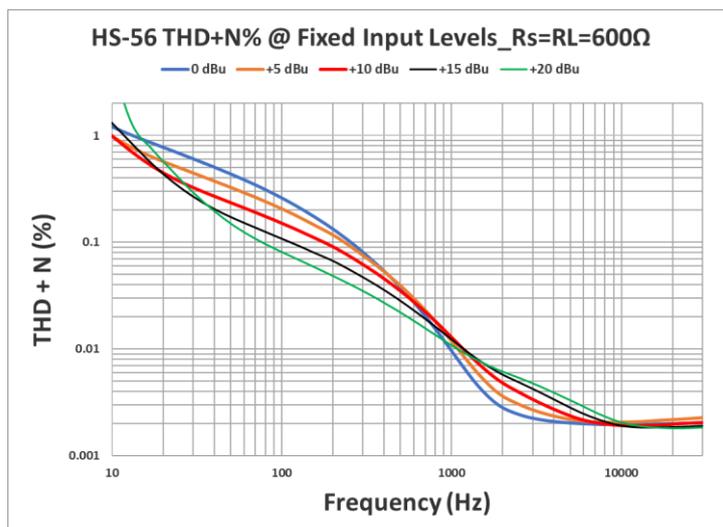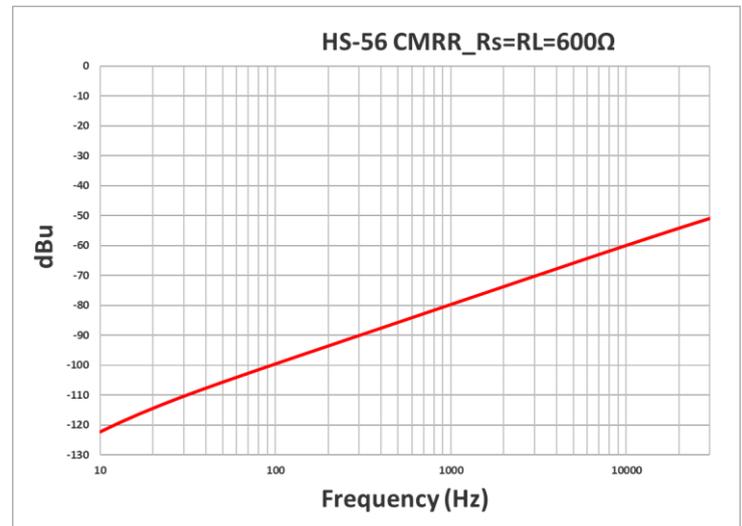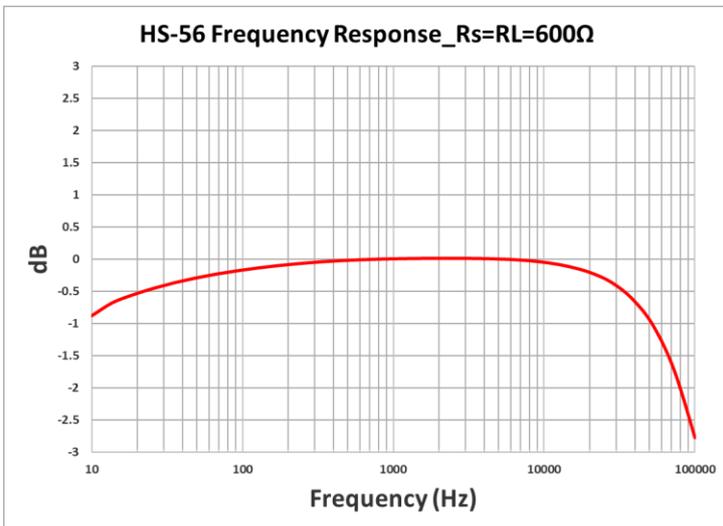| Impedance		Overall Turns Ratio	DCR (Ω)	Power level dBm
Pri (Ω)	Sec (Ω)			
600/250 150/62.5	600/250 150/62.5	1:1	1-2 = 9.46 2-3 = 16.60 4-5 = 17.80 5-6 = 10.71 7-8 = 8.40 8-9 =15.10 10-11 = 19.70 11-12 = 11.80	20

PARAMETER	CONDITIONS	TYPICAL
Frequency Range	---	10 Hz – 30KHz
Gain	1kHz, Rs = 600Ω, RL = 600Ω	-1.5 dB
Distortion (THD+N%)	1kHz, +20 dBu input, Rs = 600Ω, RL = 600Ω	0.01%
	1kHz, +10dBu input, Rs = 600Ω, RL = 600Ω	0.01%
	1kHz, 0dBu input, Rs = 600Ω, RL = 600Ω	0.007%
Max input level (10Hz)	2% THD + N%, Rs=600Ω, RL = 600Ω	>+15dBu
Frequency response (1 kHz Ref.)	10 Hz, RS=600Ω, RL=600Ω	-0.88 dB
	30kHz, RS=600Ω, RL=600Ω	-0.48 dB
Phase Shift @ 10Hz	Reference to source generator Rs= 600Ω, RL = 600Ω	+10.35°
Phase shift @ 30kHz		1.90°
CMRR	60 Hz	104 dB
	1 kHz	79 dB
Inductance	5V @ 60Hz 1-6 (short 3 & 4)	21 – 49 H
Dielectric Test	500V @ 60Hz	---
Temperature Rating	Operation & Storage	0°C to 70°C
Weight (grams)	---	280 Typ.

For illustration purpose only

#6-32 Thread (2 Places)

1.67 - 1.82
1.48 - 1.52
1.34 - 1.47
.310 - .440
2.34 - 2.53

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HS-56 Gain_Rs=RL=600Ω

HS-56 Phase_Rs=RL=600Ω

HS-56 Frequency Response_Rs=RL=600Ω

HS-56 CMRR_Rs=RL=600Ω

HS-56 THD+N% @ Fixed Input Levels_Rs=RL=600Ω
— 0 dBu — +5 dBu — +10 dBu — +15 dBu — +20 dBu

HS-56 THD+N% @ Fixed Frequencies_ Rs=RL=600Ω
— 10 Hz — 20 Hz — 30 Hz — 40 Hz — 50 Hz — 60 Hz
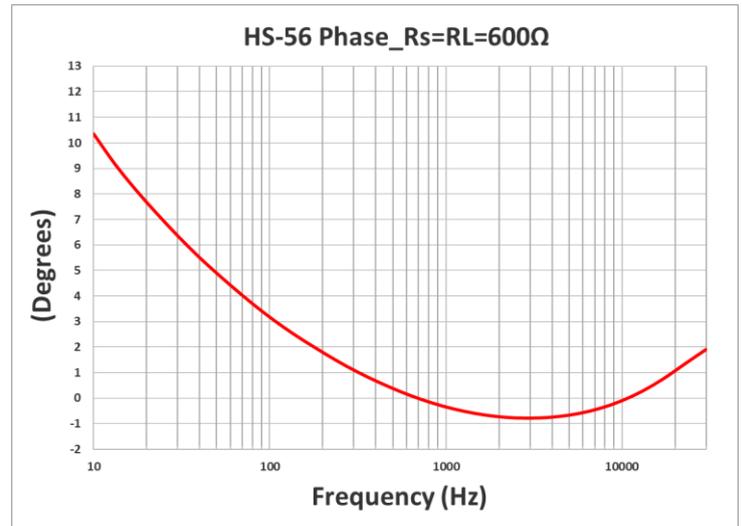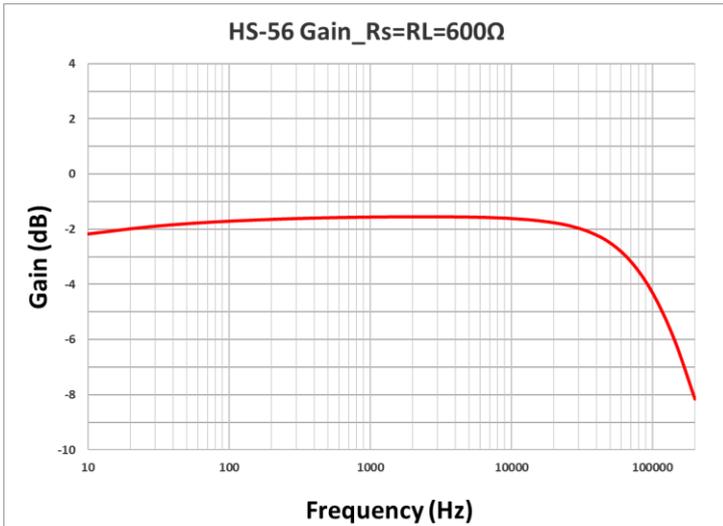
NOTE: Graph data was taken on a random sample using an Audio Precision Model APX555 Audio Analyzer.