

### HS-29

#### Description:

Triad's **HS-29** 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  $\pm 3$ 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 to following Amp stages.



For illustration purpose only

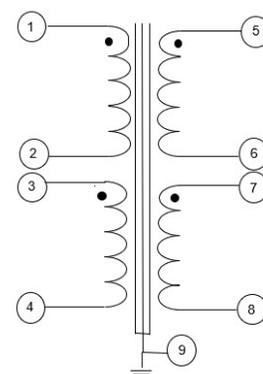
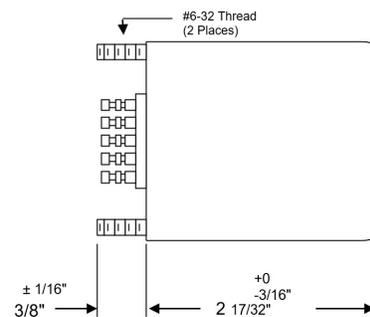
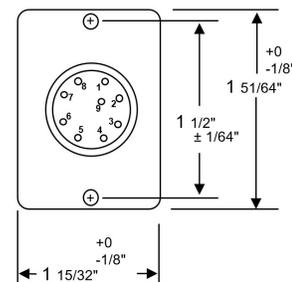
#### Electrical Specifications (@25°C)

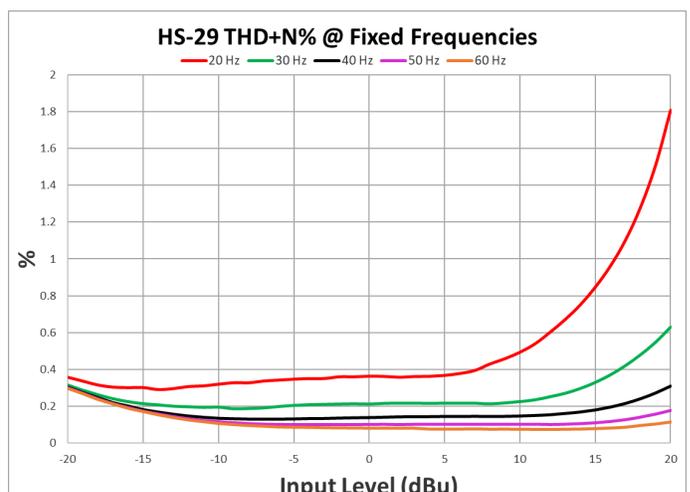
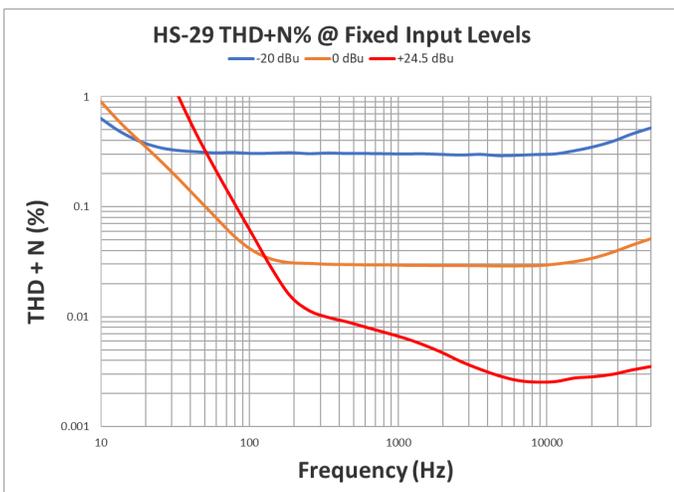
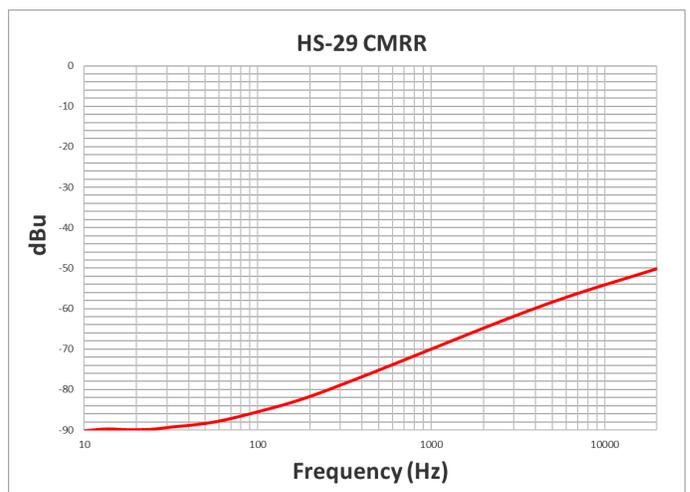
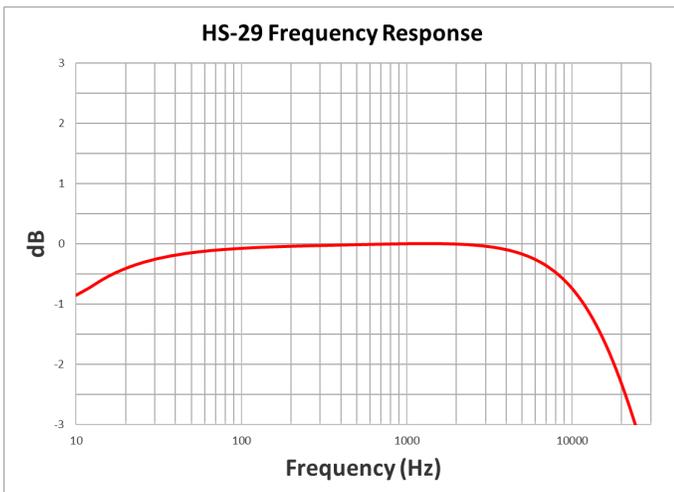
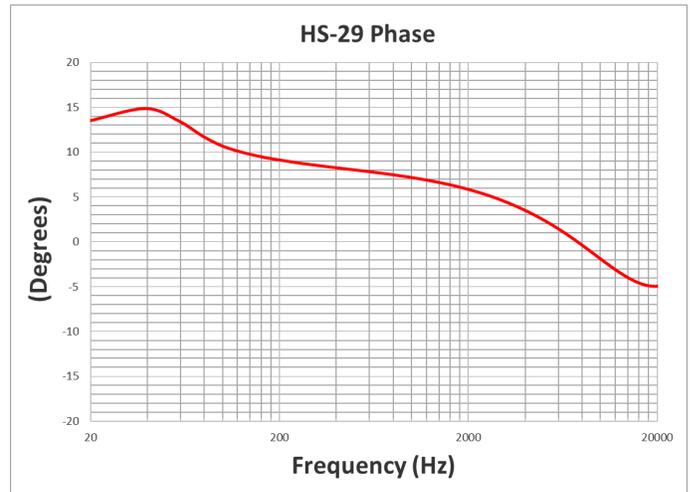
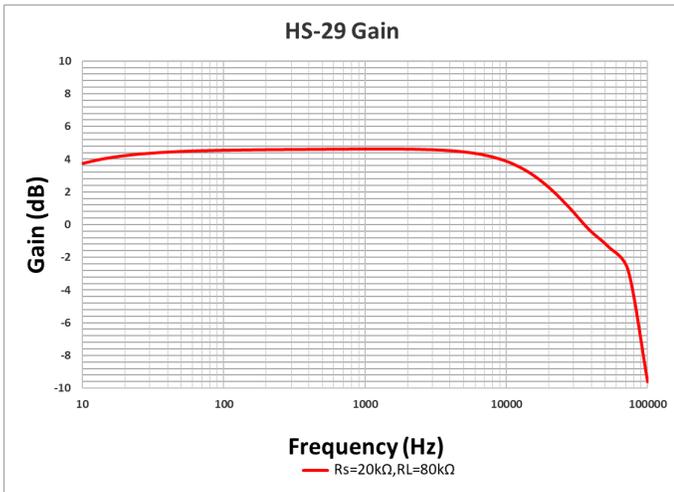
Impedance		Overall Turns Ratio	DCR (Ω)	Power level (mW)
Pri (Ω)	Sec (Ω)			
20K/5k	80k/20k	1:2	1-2 = 935 3-4 = 1020 5-6 = 1647 7-8 = 2272	20

PARAMETER	CONDITIONS	TYPICAL
Frequency Range		20 Hz – 20KHz
Gain	1kHz, $R_s = 20k\Omega$ , $R_L = 80k\Omega$	4.63 dB
Distortion (THD+N%)	1kHz, +24.5dBu input, $R_s = 20k\Omega$ , $R_L = 80k\Omega$	0.0065%
	1kHz, -0dBu input, $R_s = 20k\Omega$ , $R_L = 80k\Omega$	0.029%
	1kHz, -20dBu input, $R_s = 20k\Omega$ , $R_L = 80k\Omega$	0.30%
Max input level (20Hz)	1% THD + N%, $R_s = 20k\Omega$ , $R_L = 80k\Omega$	+22dBu
Frequency response (1 kHz Ref.)	20 Hz, $R_S = 20k\Omega$ , $R_L = 80k\Omega$	-0.40 dB
	20kHz, $R_S = 20k\Omega$ , $R_L = 80k\Omega$	-2.35 dB
Phase Shift @ 20Hz	Reference to source generator $R_s = 20k\Omega$ , $R_L = 80k\Omega$	+13.4°
Phase shift @ 20kHz		-4.9°
CMRR	60 Hz	87 dB
	1 kHz	66 dB
Inductance 1-4(2+3) =	1V @ 60Hz	600H Min.
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.

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





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