

A-12J

Description:

Triad's A-12J Input audio transformer provides the durability and precision required in today's demanding designs. **Mu-Metal case** construction for magnetic field immunity and 60 to 80 dB Hum reduction. **Large step-up turns ratio** to couple low-level input signals to the grid of the first amplifier tube or, in a multistage system, to the input element of the first transistor amplifier. Low level **High Fidelity** with excellent Unwanted **Noise reduction**. Applications include signal pre-amplification, inter-stage isolation, signal level step up/down, and impedance matching.

Electrical Specifications (@25C)

Power level (mW)	Inductance (H)	Impedance		DCR (Ω)		Turns Ratio	DWV
	pri	Pri	Sec	Pri	Sec		
10	7 Min	150 600	60k	55	5300	1:20 1:10	500V

PARAMETER	CONDITIONS	TYPICAL
Operating Frequency		20Hz – 20kHz
Gain	1kHz, $R_s = 600\ \Omega$ $R_L = 60k\Omega$	+13.2 dB
Distortion (THD+N%)	1kHz, +10dBu input, $R_s = 600\Omega$ $R_L = 60k\Omega$	0.006%
	1kHz, +3dBu input, $R_s = 600\Omega$ $R_L = 60k\Omega$	0.004%
	1kHz, -5dBu input, $R_s = 600\Omega$ $R_L = 60k\Omega$	0.004%
Max input level (20Hz)	1% THD + N%, $R_s=600\Omega$, $R_L = 60k\Omega$	+0.45dBu
Frequency response (1 kHz Ref.)	20 Hz, $R_S=600\Omega$, $R_L=60k\Omega$	-1.16 dB
	20kHz, $R_S=600\Omega$, $R_L=60k\Omega$	-1.18 dB
Phase Shift @ 20Hz	Reference to source generator	+23°
Phase shift @ 20kHz	$R_s= 600\Omega$, $R_L = 60k\Omega$	-2°
CMRR	60 Hz	98.2 dB
	1 kHz	86.2 dB
Temperature Rating	Operation & Storage	0°C to 70°C

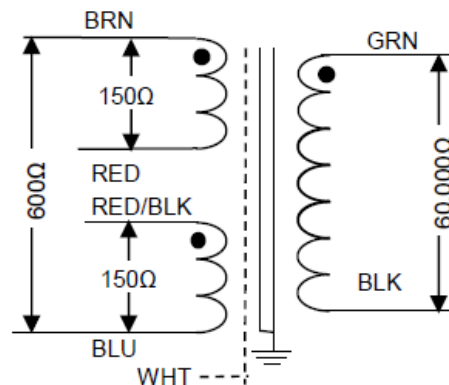
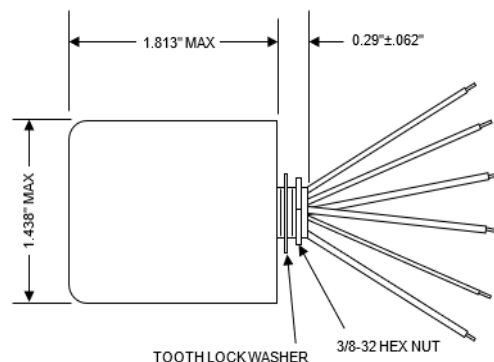
RoHS Compliance: As of manufacturing date February 2005, all standard products meet the requirements of 2011/65/EU, known as the RoHS initiative.

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

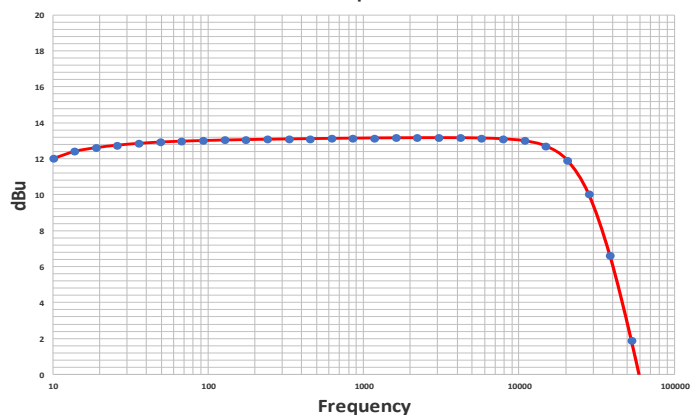


For illustration purpose only

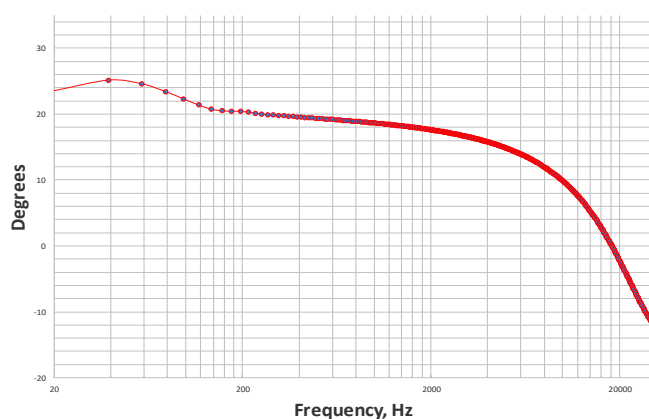
ALL LEADS = 6.0" Min



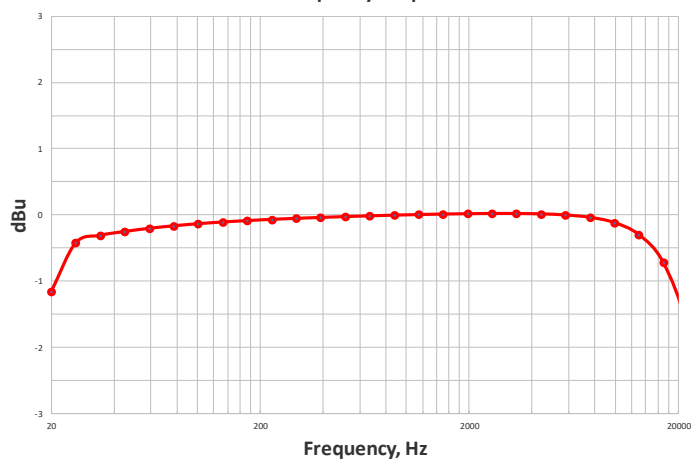
A-12J Amplitude



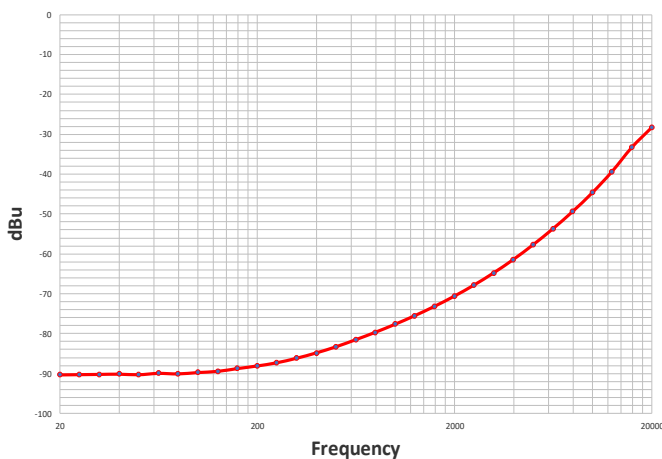
A-12J Phase



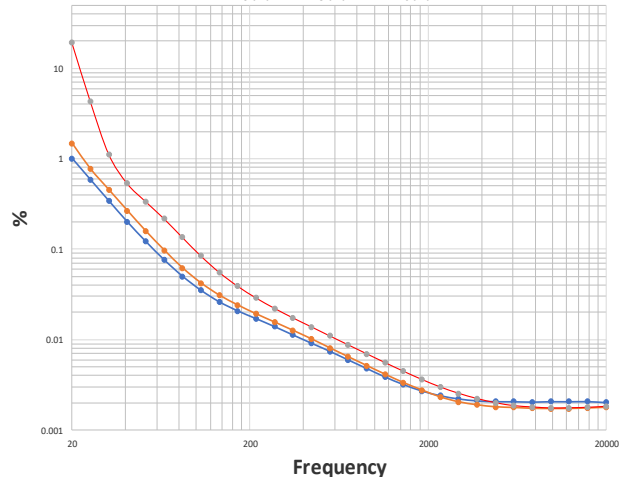
A-12J Frequency Response



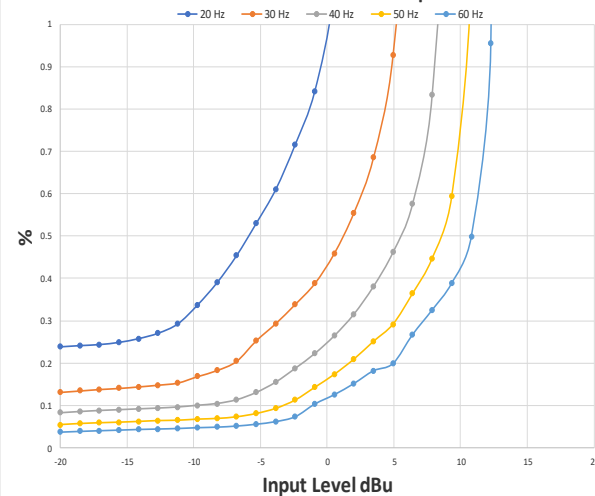
A-12J CMRR



A-12J THD+N% at Fixed Inputs



A-12J THD+N% at Fixed Frequencies



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

Web: www.TriadMagnetics.com
Phone 951-277-0757
Fax 951-277-2757

460 Harley Knox Blvd.
Perris, California 92571

Publish Date: July 24, 2023