

TY - 251SP

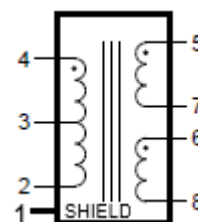
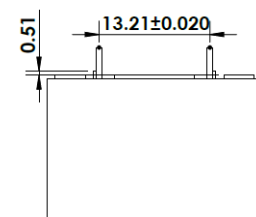
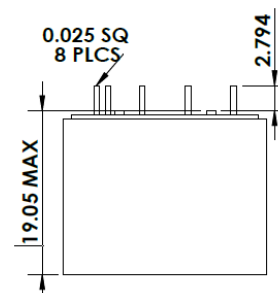
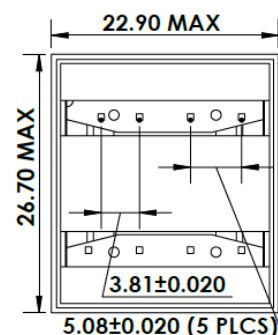
Description:

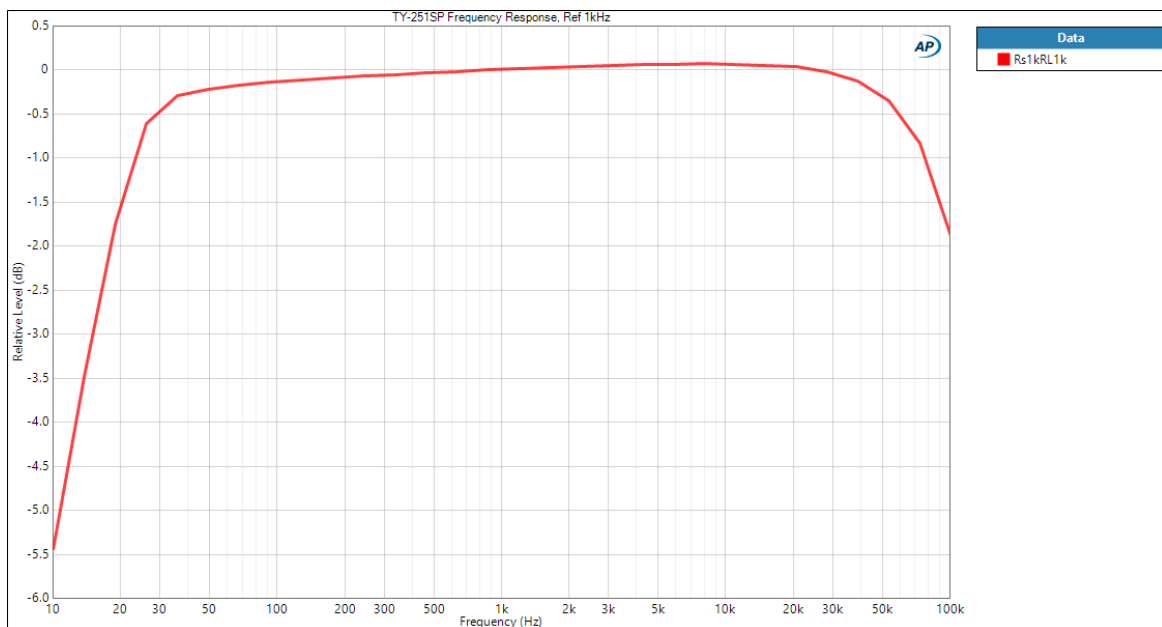
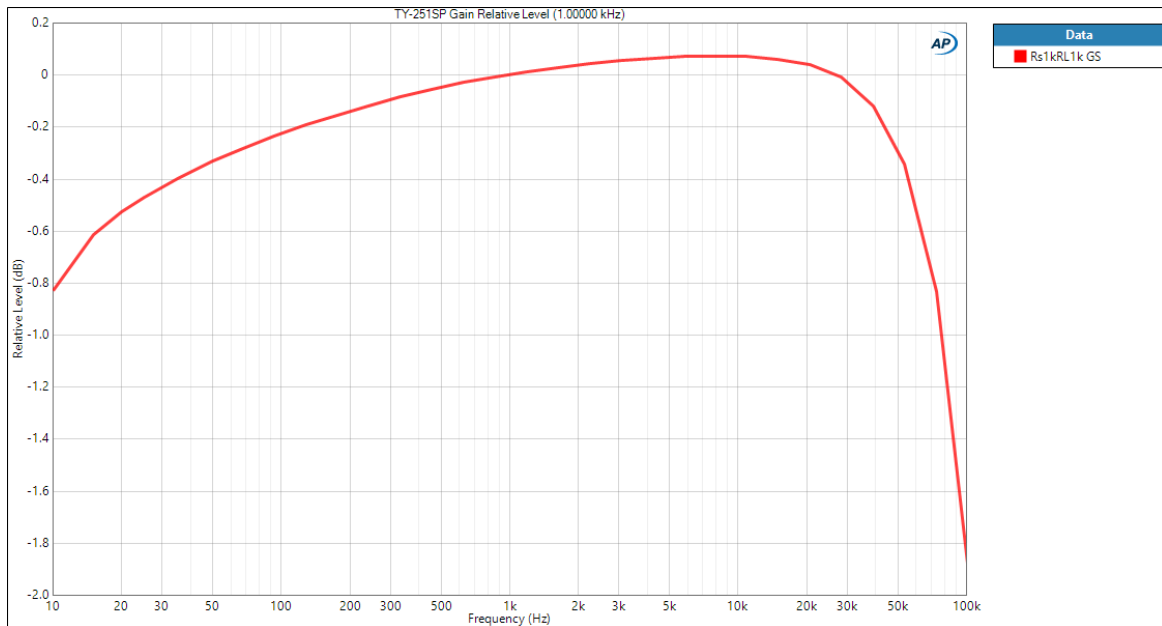
This TY-251SP operates in the 30 Hz to 30,000 Hz range, making it suitable for a broad application spectrum in the audio industry. The TY-251SP uses a nickel case that is used in line matching, telephone coupling, pulse trigger, driver, interstage, and isolation input and output applications.

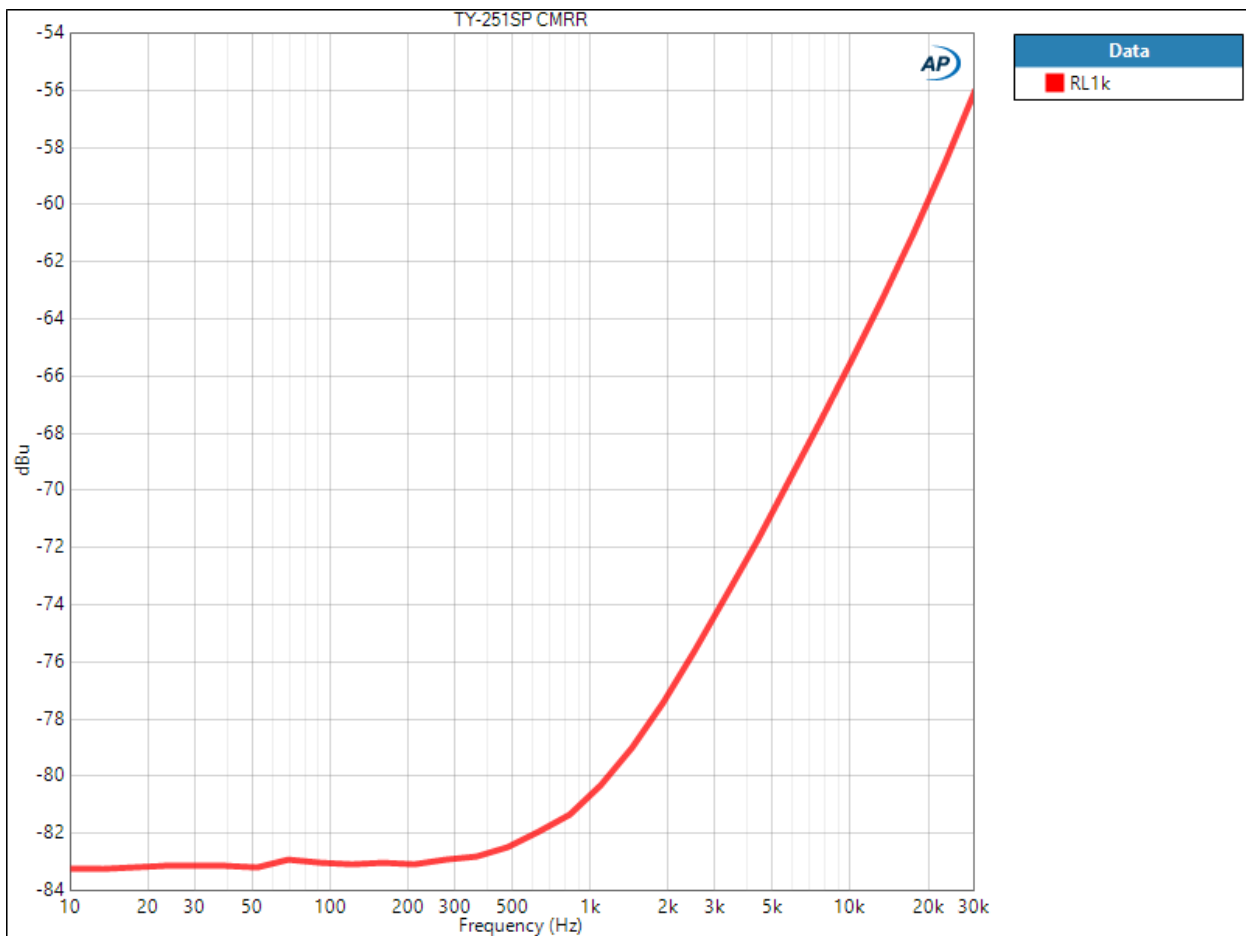
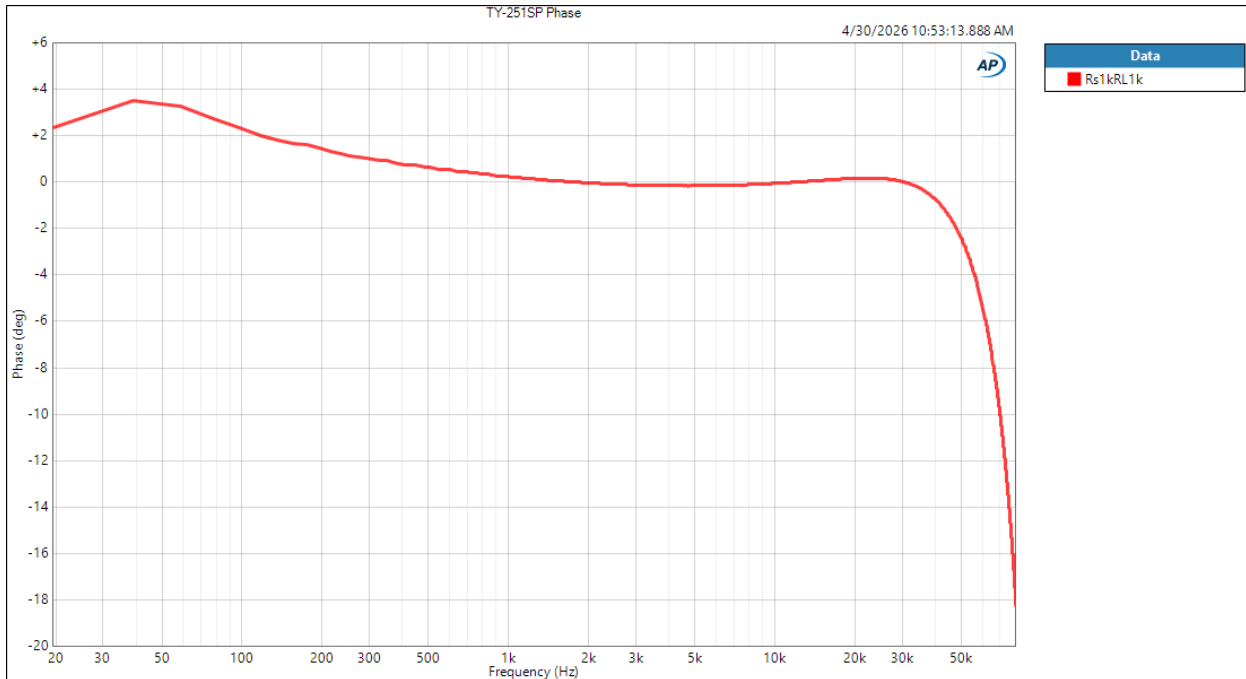
Electrical Specifications at 25° C:

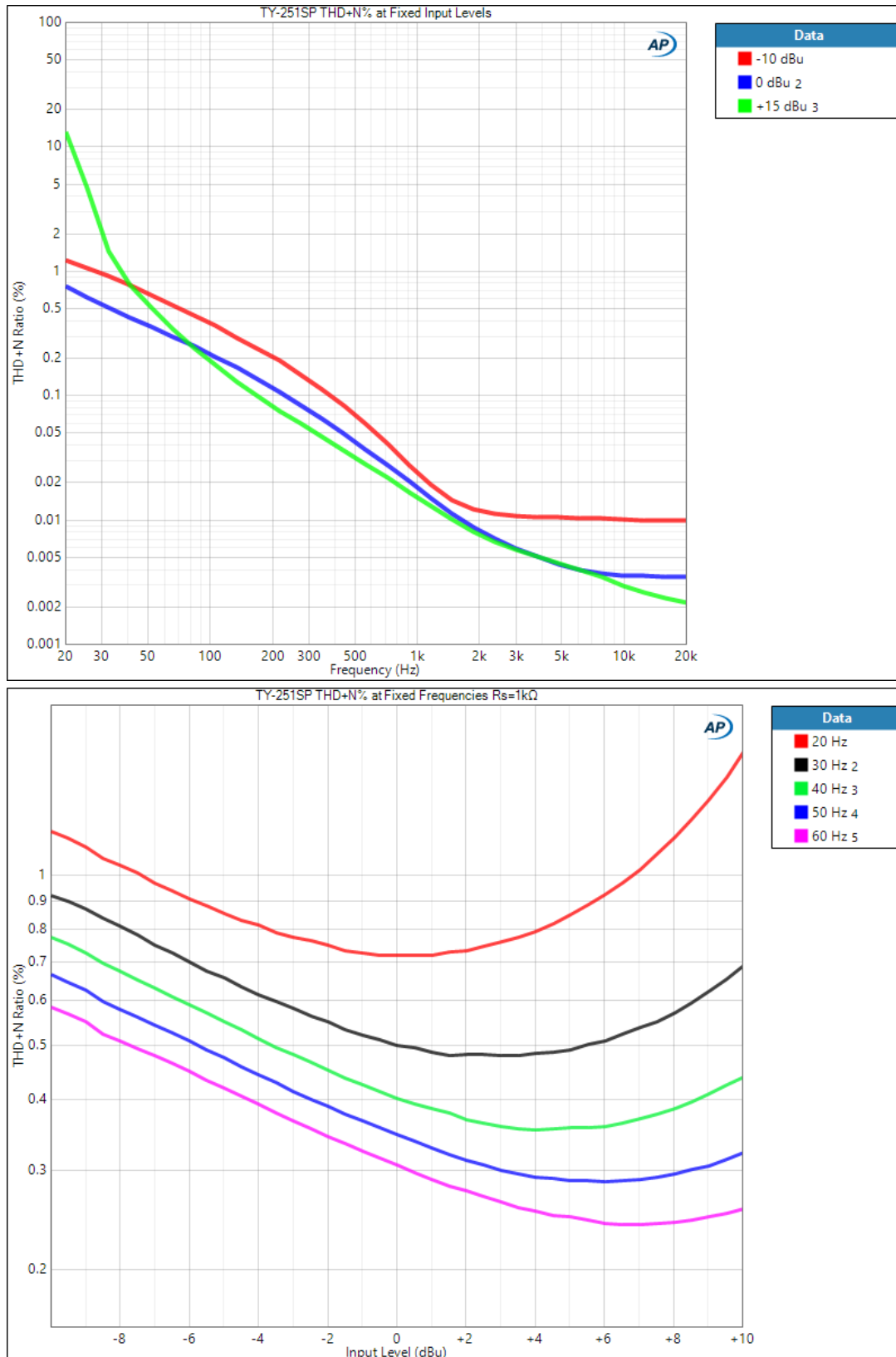
Impedance ¹		Turns Ratio	MAX DCR (Ω)	Primary DC Unbalance (mA)	Insertion Loss @ 1kHz (db)	Power level (mW)
Pri (Ω)	Sec (Ω)					
1000ΩCT	1000ΩCT/ 250Ω	1:1 (tie 6&7) 2:1 (tie 5 to 6, 7 to 8)	2-4 = 181.5 5-7 = 88 6-8 = 88	4	< 2.8	20

PARAMETER	CONDITIONS	TYPICAL
Frequency Range	---	30 Hz – 30KHz
Gain	1kHz, Rs = 1kΩ, RL = 1kΩ	+0.01 dB
Distortion (THD+N%)	1kHz, +10 dBu input, Rs = 1kΩ, RL = 1kΩ	0.013%
	1kHz, 0dBu input, Rs = 1kΩ, RL = 1kΩ	0.018%
	1kHz, -10dBu input, Rs = 1kΩ, RL = 1kΩ	0.023%
Max input level (30Hz)	2% THD + N%, Rs=1kΩ, RL = 1kΩ	>+15dBu
Frequency response (1 kHz Ref.)	30Hz – 30kHz	±1dB
Phase Shift @ 30Hz	Reference to source generator	+3.05°
Phase shift @ 30kHz	Rs= 1kΩ, RL = 1kΩ	-.017°
CMRR	60 Hz	-82.6 dBu
	1 kHz	-80 dBu
Inductance	4V @ 60Hz 2-4	15 – 35 H
Dielectric Test	Primary to Secondary	1500V
Temperature Rating	Operation & Storage	-40°C to 105°C
Weight (grams)	---	31 Typ.











Audio Transformer PC Mount

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

1. 600:600 Ω , 10K:10K Ω , 100K:100K Ω , 1M:1M Ω , and other impedances (secondaries can all be used at $\frac{1}{4}$ value when placed in parallel) are optional as long as input voltage is $\leq 4.2V_{rms}$ and current is $\leq 7mA$.

RoHS Compliance: As of manufacturing date February 2016, all standard products meet the requirements of 2015/863/EU, known as the RoHS 3 initiative.

*Upon printing, this document is considered "uncontrolled". Please contact Triad Magnetics website for the most current version. For soldering and washing information please see <http://www.triadmagnetics.com/faq.html>

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