HAMMOND MANUFACTURING T.M.

Hammond Mfg. Co. Ltd., Electronics Division
www.hammfg.com

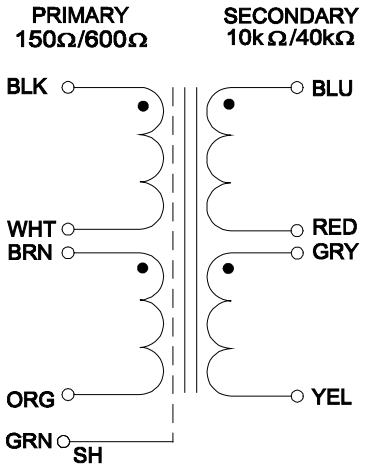
# 850A Series *Audio Broadcast Quality Transformers*

# 850NA

## Features:

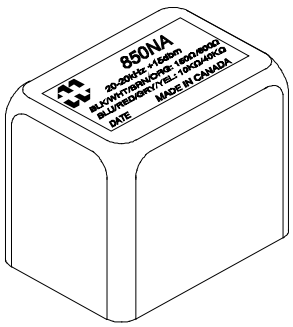
- Deep-drawn steel case with tin plated finish, with two convenient 6-32 mounting studs with mounting hardware.
- Sealed case and epoxy-potted transformer for stable characteristics and long life.
- Wide frequency response ± 0.5dB max. from 20Hz to 20KHz.
- Maximum power level +15 dBm. with specified characteristics, or higher levels with reduced low frequency performance.
- Distortion is <1% @ 20 Hz under full power.
- Electrostatic shield between primary & secondary connected to the green lead.
- Humbucking construction
- Balanced split windings on primary & secondary for circuit versatility. Primary may be used as a secondary and vice versa for impedance matching.
- Includes mounting hardware. Shipping weight 0.4 lb. (0.18 kg).
- Lead length: minimum 4"

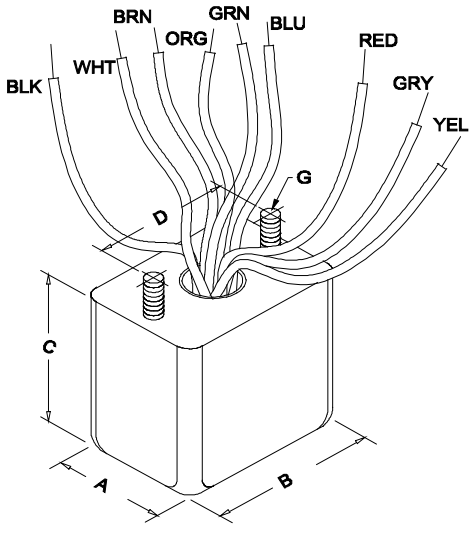
| ELECTRICAL SPECIFICATIONS | | |
|---|---|---|
| **Characteristics** | **Typical** | |
| PRI Impedance | 150 / 600 Ohms | |
| SEC Impedance | 10K / 40K Ohms | |
| Output Power | +15dBm (31.623mW) | |
| DCR BLK – WHT = BRN – ORG | 16.9 Ohms ±20% | |
| DCR BLU – RED = GRY – YEL | 1258 Ohms ±20% | |
| Dielectric Strength | 250V RMS | |
| | | |
| **PRI Inductance \| Impedance** | 1V @ 1KHz OC | |
| BLK&BRN joined – WHT&ORG joined | 226mH | 5.58K Ohms |
| BLK – ORG (WHT&BRN joined) | 776mH | 19.82K Ohms |
| | | |
| **PRI Leakage Inductance** | 1V @ 1KHz SC | |
| BLK&BRN joined – WHT&ORG joined | 270uH | |
| BLK – ORG (WHT&BRN joined) | 1.08mH | |



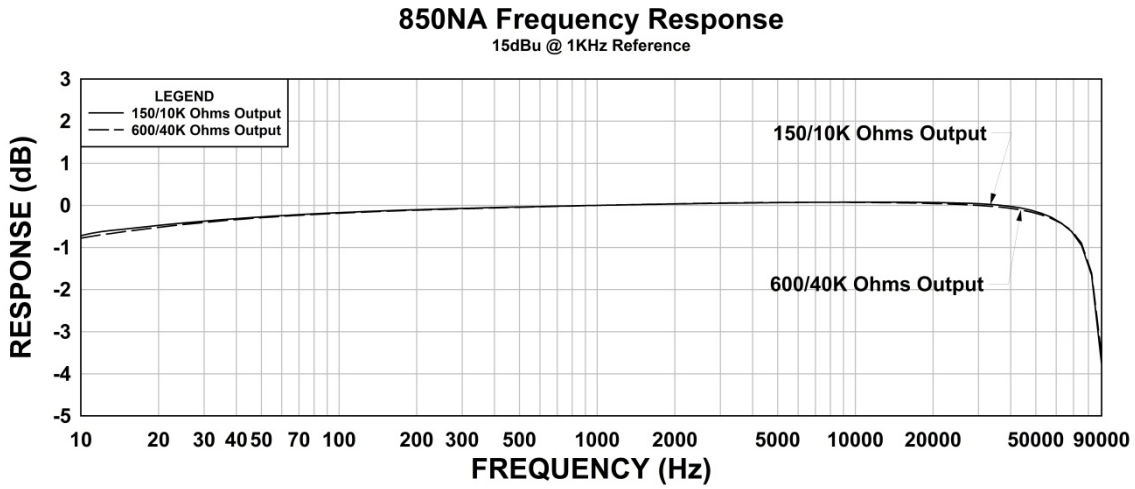

## DIMENSIONAL DETAILS:

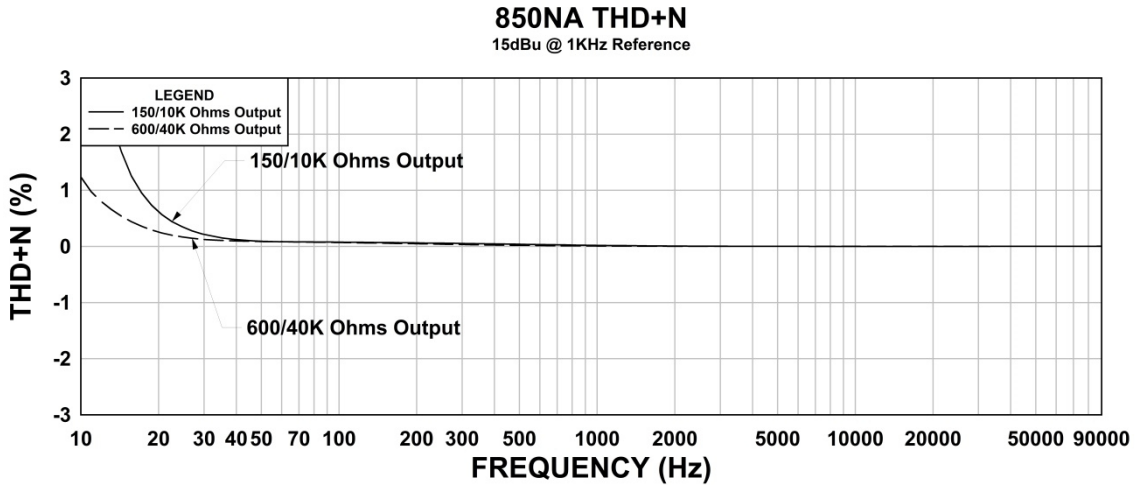
| DIMENSIONS: | |
|---|---|
| **A** | 1.20” ±0.063 |
| **B** | 1.70” ±0.063 |
| **C** | 1.65” MAX. |
| **D** | 1.32” ±0.063 |
| **G** | 6-32 mounting studs |

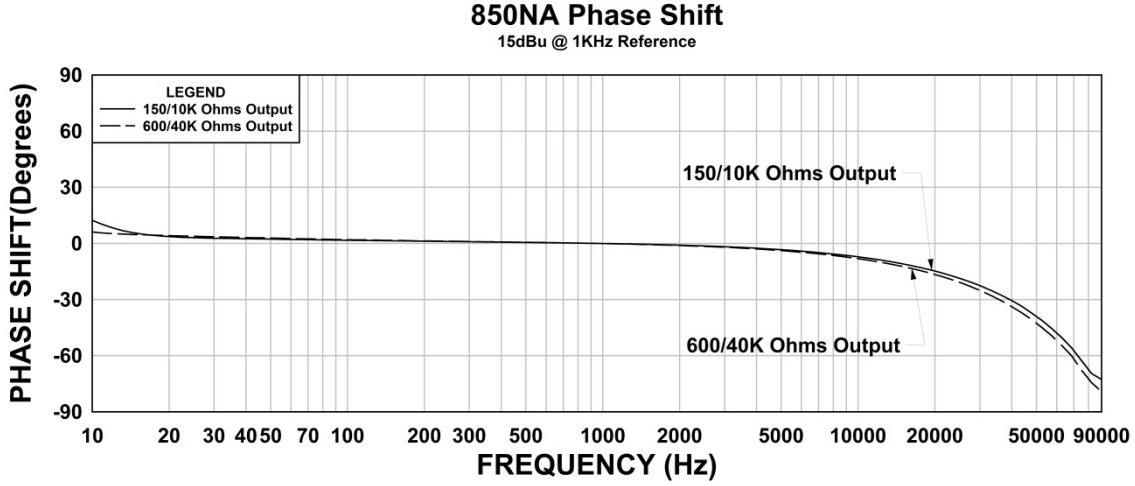


## PERFORMANCE GRAPHS:



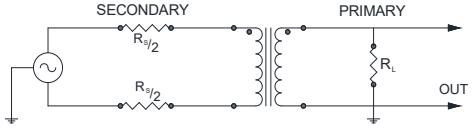




### MEASUREMENT INSTRUMENTS

- dScope Series III Audio Analyzer
- Wayne Kerr 3255B with a 3265B Inductance Analyzer
- HP 4192a LF Impedance Analyzer
- Keithley 2010 DVM

**The results are typical and are subject to normal manufacturing and electrical tolerances.

### TEST CONDITIONS




Test circuit configured to match test equipment's input and output impedance.