



NATIONAL

12AX7-A

THE NL-12AX7A IS A MINIATURE HIGH- μ TWIN TRIODE ESPECIALLY SUITED FOR APPLICATIONS THAT REQUIRE LOW HUM AND MICROPHONIC OUTPUT. THE CENTER-TAPPED HEATER PERMITS THE TUBE TO BE OPERATED FROM EITHER A 6.3 VOLT OR A 12.6 VOLT HEATER SUPPLY.

ELECTRICAL

CATHODE	COATED, UNIPOTENTIAL	
HEATER VOLTAGE, AC OR DC	SERIES 12.6 $\pm$ 1.3	V
.	PARALLEL 6.3 $\pm$ 0.6	V
HEATER CURRENT	SERIES	0.15 A
.	PARALLEL	0.3 A
CAPACITANCE, GRID TO PLATE, EACH SECTION	1.7	pf
OUTPUT CAPACITANCE, EACH SECTION	1.6	pf
OUTPUT CAPACITANCE, SECTION ONE	0.46	pf
SECTION TWO	0.34	pf

MECHANICAL

MOUNTING POSITION	ANY
BASE	SMALL BUTTON 9-PIN
DIMENSIONS	SEE OUTLINE DRAWING
TERMINAL CONNECTIONS	SEE BASING DIAGRAM

MAXIMUM RATINGS

PLATE VOLTAGE	300	V
POSITIVE DC GRID VOLTAGE	0	V
NEGATIVE DC GRID VOLTAGE	55	V
PLATE DISSIPATION	1.1	w
HEATER-CATHODE VOLTAGE		
HEATER POSITIVE WITH RESPECT TO CATHODE	200	V
HEATER NEGATIVE WITH RESPECT TO CATHODE	200	V

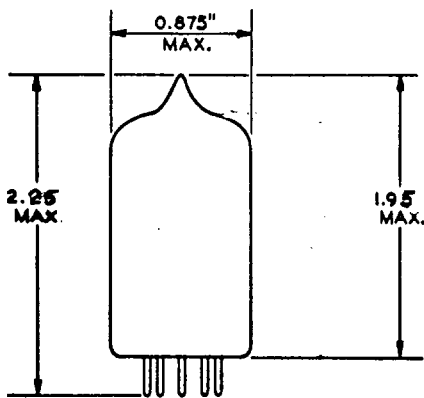
NATIONAL ELECTRONICS

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AVERAGE CHARACTERISTICS AND TYPICAL OPERATION

PLATE VOLTAGE	100	250	V
GRID VOLTAGE.	-1	-2	V
AMPLIFICATION FACTOR	100	100	
TRANSCONDUCTANCE	1250	1600	μ Mohos
PLATE CURRENT	0.5	1.2	mA

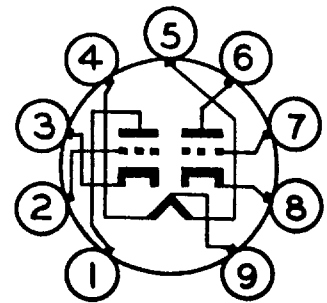
PHYSICAL DIMENSIONS



TERMINAL CONNECTIONS

- Pin 1 - Plate (Section 2)
- Pin 2 - Grid (Section 2)
- Pin 3 - Cathode (Section 2)
- Pin 4 - Heater
- Pin 5 - Heater
- Pin 6 - Plate (Section 1)
- Pin 7 - Grid (Section 1)
- Pin 8 - Cathode (Section 1)
- Pin 9 - Heater Center-Tap

BASING DIAGRAM



AVERAGE PLATE CHARACTERISTICS

