

# 6AL7-GT

## Description and Rating

### ELECTRON-RAY INDICATOR

#### GENERAL DESCRIPTION

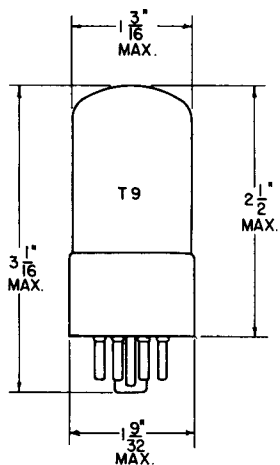
Principal Application: The 6AL7-GT is an electron-ray indicator designed especially for use in AM-FM receivers. Through its use, precise tuning of either

FM or AM signals is easily accomplished without the use of additional tubes or circuit components.

Cathode: . . . . . Coated Unipotential  
 Heater Voltage (A-C or D-C) . . . . . 6.3 Volts  
 Heater Current . . . . . 0.15 Ampere  
 Envelope: . . . . . T-9, Glass

Base: . . . . . B8-6, Intermediate Shell Octal 8-Pin  
 or B8-46, Short Intermediate Shell Octal 8-Pin  
 Mounting Position: . . . . . Any

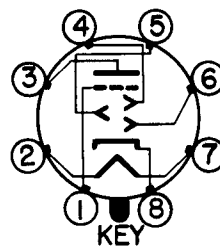
#### PHYSICAL DIMENSIONS



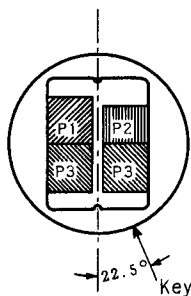
#### TERMINAL CONNECTIONS

- Pin 1 - Grid
- Pin 2 - Heater
- Pin 3 - Target
- Pin 4 - Deflection Electrode Number 2
- Pin 5 - Deflection Electrode Number 3
- Pin 6 - Deflection Electrode Number 1
- Pin 7 - Heater
- Pin 8 - Cathode

#### BASING DIAGRAM



RTMA 8CH  
 BOTTOM VIEW



Pattern areas P<sub>1</sub>, P<sub>2</sub>, and P<sub>3</sub> are produced and controlled by deflection electrodes number 1, 2, and 3 respectively.

#### DESIGN CENTER VALUES:

Target Voltage (Maximum) . . . . .	365 . . . . .	Volts
Target Voltage (Minimum) . . . . .	220 . . . . .	Volts
Heater-Cathode Voltage . . . . .	90 . . . . .	Volts

#### MAXIMUM RATINGS

#### INDICATOR SERVICE

#### CHARACTERISTICS AND TYPICAL OPERATION

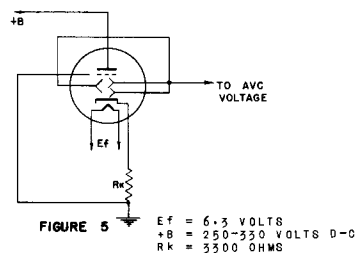
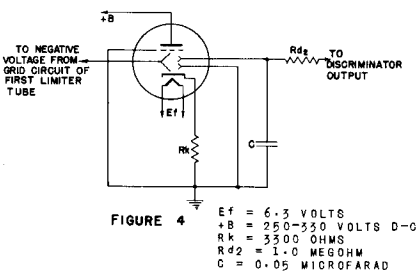
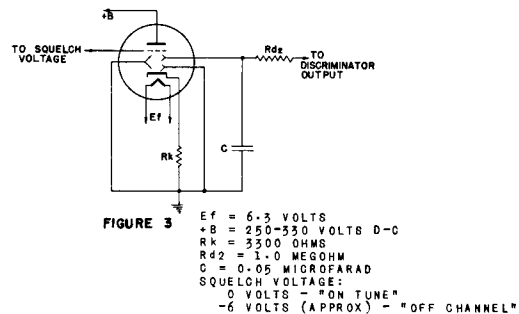
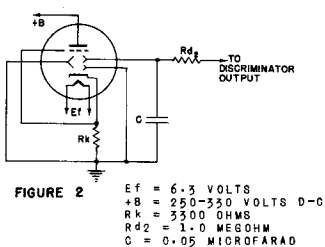
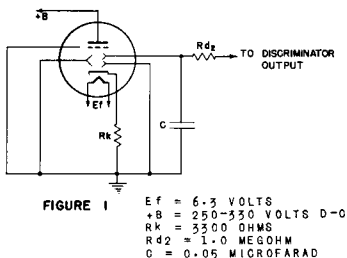
Target Voltage . . . . .	315 . . . . .	Volts
Deflection Electrode Number 1 Voltage . . . . .	0 . . . . .	Volts
Deflection Electrode Number 2 Voltage . . . . .	0 . . . . .	Volts
Deflection Electrode Number 3 Voltage . . . . .	0 . . . . .	Volts
Grid Voltage * . . . . .	0 . . . . .	Volts
Cathode Bias Resistor . . . . .	3300 . . . . .	Ohms
Deflection Sensitivity (Approx) for First Millimeter Deflection # . . . . .	1.0 . . . . .	mm/Volt
Grid Voltage (Approx) for Fluorescence Cutoff . . . . .	-7.0 . . . . .	Volts

\* The grid should be connected to the cathode when not used for fluorescence control.

# For deflection electrodes number 1 and 2

PATTERN SEQUENCE DURING TUNING

CONTROL VOLTAGE SOURCE	SIGNAL	CIRCUIT (SEE FIGURE)	OFF CHANNEL (-)	ON CHANNEL OFF TUNE (-)	ON TUNE	ON CHANNEL OFF TUNE (+)	OFF CHANNEL (+)
DISCRIMINATOR	FM	1 AND 2					
DISCRIMINATOR AND SQUELCH	FM	3					
DISCRIMINATOR AND LIMITER	FM	4					
AVC	AM	5					



TUBE DEPARTMENT  
**GENERAL ELECTRIC**  
 Schenectady 5, N. Y.