



IL4

# R-F AMPLIFIER PENTODE

MINIATURE TYPE

IL4

Filament	Coated	
Voltage	1.4	d-c volts
Current	0.05	amp.
Direct Interelectrode Capacitances: <sup>o</sup>		
Grid to Plate	0.008 max.	$\mu\text{f}$
Input	3.6	$\mu\text{f}$
Output	7.5	$\mu\text{f}$
Maximum Overall Length		2-1/8"
Maximum Seated Height		1-7/8"
Maximum Diameter		3/4"
Bulb		T-5-1/2
Base <sup>▲</sup>		Miniature Button 7-Pin
Pin 1 { Filament -, Internal Shield		Pin 5 { Filament -, Internal Shield
Pin 2 - Plate		Pin 6 - Grid
Pin 3 - Screen		Pin 7 - Filament +
Pin 4 - No Connection		
RCA Socket		Stock No. 9914
Mounting Position		Any



BOTTOM VIEW (6AR)

*Maximum And Minimum Ratings Are Design-Center Values*

### AMPLIFIER

Plate Voltage		110 max. volts
Screen Voltage		90 max. volts
Screen Supply Voltage		110 max. volts
Grid Voltage		0 min. volts
Total Cathode Current		6.5 max. ma.
<i>Typical Operation and Characteristics - Class A<sub>1</sub> Amplifier</i>		
Plate Voltage	90	90 volts
Screen Voltage	67.5	90 volts
Grid Voltage	0	0 volts
Plate Resistance	0.6	0.35 megohm
Transconductance	925	1025 $\mu\text{mhos}$
Grid Bias for		
Plate Current = 10 $\mu\text{amp.}$	-6	-8 volts
Plate Current	2.9	4.5 ma.
Screen Current	1.2	2.0 ma.

<sup>o</sup> with no external shield.

<sup>▲</sup> The center hole in sockets designed for this base provides for the possibility that this tube type may be manufactured with the exhaust-tube tip at the base end. For this reason, it is recommended that in equipment employing this tube type, no material be permitted to obstruct the socket hole.

1L4



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AVERAGE PLATE CHARACTERISTICS

