

U-H-F AMPLIFIER TRIODE GROUNDED-GRID, MINIATURE TYPE

For use at frequencies up to 500 Mc. approx.

101 436 40 116	quencies up to	70.0			
Heater Coated Unipotential Cathode					
Voltage	6.3	a-c or d-c volts			
Current	0.4	amp.			
Direct Interelectrode Capacitances (Approx.):					
Plate to Cathode & He	eater 0.24 max.	քող			
Grid to Cathode & Hea	ater 5.5	μμf			
Grid to Plate	4	uuf.			
Heater to Cathode	2.8	μμf			
Maximum Overall Length		2–1/8"			
Maximum Seated Height		1-7/8"			
Length from Base Seat		<u></u>			
to Bulb Top (excluding tip)		1-1/2" <u>+</u> 3/32"			
Maximum Diameter	· · · · · · · · · · · · · · · · · · ·	3/4"			
Bulb		T-5-1/2"			
Base▲		Miniature Button 7-Pin			
Pin 1-Grid		Pin 5-Grid			
Pin 2 - Cathode	9 _Q	Pin 6 - Grid			
Pin 3-Heater	O	Pin 7-Plate			
Pin 4-Heater		i ili i – i idec			
RCA Socket		Stock No.9914			
	0	Any			
Mounting Position	BOTTOM VIEW 178				
BOTTOM VIEW (7BQ)					

Maximum Ratings Are Design-Center Values

GROUNDED-GRID AMPLIFIER

Plate Voltage Plate Dissipation Plate Current D-C Heater-Cathode Potential Typical Operation and Characteri	stics - Class	150 max. 2.25 max. 20 max. 90 max. A, Amplifi	watts ma. volts
Plate Voltage	100	150	volts
Cathode-Bias Resistor*			
(Suitably by-passed)	100	100	ohms
Amplification Factor	5 5	55	
Plate Resistance	5000	4500	ohms
Transconductance	11000	12000	µmhos
Plate Current	10	15	ma.

O With close-fitting shield connected to grid.

The 6J4 should always be used with a cathode-bias resistor suitably by-passed. The d-c resistance in the grid circuit under maximum rated conditions should be limited to 0.25 megohm.

Afthe 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.

TENTATIVE DATA





U-H-F AMPLIFIER TRIODE

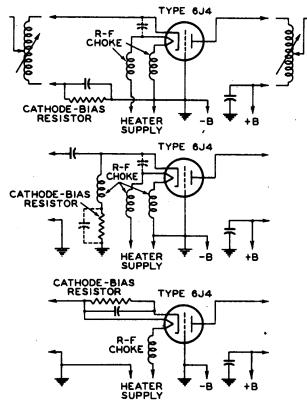
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NOTE

For grounded-grid operation, all three grid terminals should be grounded to minimize the effects of grid-lead inductance on u-h-f performance.

In arranging the circuit for the 6J4 used as a grounded-grid r-f amplifier or mixer, it is preferable to have the heater operate at the same r-f potential as the cathode, so that the cathode-heater capacitance will not be added across the input-circuit capacitance. Placing r-f chokes in series with the heater leads is suggested as a suitable method of operating heater and cathode at the same r-f potential.

TYPICAL GROUNDED-GRID CIRCUITS Having Heater at R-F Cathode Potential



92CM-6550

The license extended to the purchaser of tubes appears in the License Notice accompanying them. Information contained herein is furnished with—out assuming any obligations.

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RCA VICTOR DIVISION
RADIO CORPORATION OF AMERICA, MARRISON, NEW JERSEY

TENTATIVE DATA