

RADIO VALVE COMPANY LIMITED

7382

The RVD 133 is a miniature high-mu triode with low hum features that make it particularly suitable for audio preamplifier use.

GENERAL DATA

<u>Electrical:</u>	Cathode	Coated Unipotential
	Heater Voltage A.C. or D.C.....	6.3 volts
	Heater Current	0.3 amps
	Direct interelectrode capacitances with external shield	
	Grid to Plate	2.0 uuf
	Input	2.2 uuf
	Output	0.8 uuf
<u>Mechanical:</u>	Mounting Position	Any
	Maximum Overall Length	2 1/8"
	Maximum Seated Length	1 7/8"
	Length from base seat to bulb top	1 1/2 ± 3/32"
	Maximum Diameter	3/4"
	Bulb	T 5 1/2
	Base	Small Button 7-Pin

MAXIMUM RATINGS

Design Center Values:

Plate Voltage	300 volts max.
Heater Cathode Voltage	90 volts max.
Plate Dissipation	0.5 watts max.
Positive D.C. Grid Voltage	0 volts max.

CHARACTERISTICS & TYPICAL OPERATION

Class A1 Amplifier Service:

Plate Voltage	100	250 volts
Grid #1 Voltage	-1	-2 volts
Plate Resistance	80,000	62,500 ohms
Amplification Factor	100	100
Transconductance	1250	1600 umhos
Plate Current	0.5	1.2 mA

Resistance Coupled Amplifier Service:

Plate Supply Voltage	90	250 volts
Control Grid Voltage	0	0 volts
Plate Load Resistance	220,000	470,000 ohms
Control Grid Resistor	10.0	10.0 megohms
Input Condenser	0.01	0.01 uf
Output Condenser	0.01	0.01 uf
Grid Resistor of Following Stage	470,000	470,000 ohms
Signal Source Impedance	1000	1000 ohms (max)
Distortion	5	5%

Resistance Coupled Amplifier Service: cont'd

Output Voltage	5.5	30 volts
Voltage gain at 400 c/s	43	63

HUM LEVELAverage Values:

Under the following circuit conditions

E_p	=	250 V	E_f	6.3 V balanced to ground
R_k	=	2,200 ohms CK	100 uf	
R_{g1}	=	100,000 ohms		

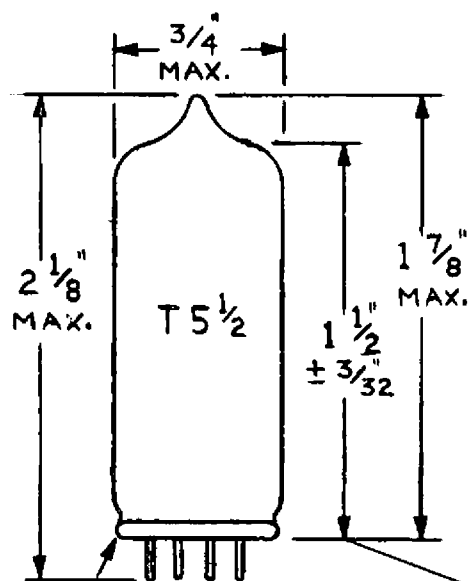
with bypassed RK

2.0uV

Unbypassed RK

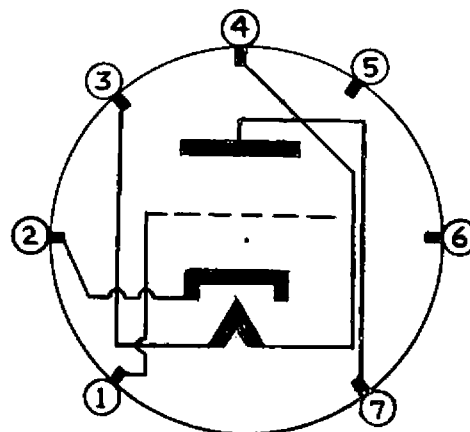
15.0uV

Hum level is in uV referred to the grid of the tube under test.

DIMENSIONAL OUTLINE

Measured from base seat
to bulb-tip line as
determined by ring gauge of 7/16" I.D.

Small-Button 7-Pin Base

SOCKET CONNECTIONS
(Bottom View)

Pin 1	-	Grid
Pin 2	-	Cathode
Pin 3	-	Heater
Pin 4	-	Heater
Pin 5	-	N.C
Pin 6	-	N.C
Pin 7	-	Plate