

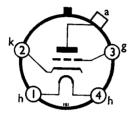
# OUTPUT TRIODE 7.5V INDIRECTLY HEATED

**DA42** 

**JUNE, 1955** 

 $\boldsymbol{A}$  power triode designed to operate in pairs at zero grid bias in Class B audio amplifiers.

#### BASE CONNECTIONS AND VALVE DIMENSIONS



View from underside of base.

Base: Medium 4 Pin Bayonet. Bulb: Dome Top Tubular.

Max overall length: 156 mm.

Max seated length: 141 mm.

Max diameter: 52 mm.

Top Cap: CT2

#### **HEATER**

$V_h$		
$I_h$		

V A

#### RATING

٧	а
p.	a

V W

#### CHARACTERISTICS

,	1000	$V_a$
m.	40	$I_a$
<b>mA</b> /	3.0	$g_{n_i}$
k:	24	ra
	72	$\mu$

#### **CAPACITANCES**

 $c_{\text{g-}kh} \quad 5{\cdot}2 \quad pF$ 

 $c_{a-kh} = 1.0 pF$ 

cg-a 4.0 pF

### **DA42**

#### TYPICAL OPERATION

Push-Pull Class B. Two valves. Data per pair.

$V_a$	1,000	v
$V_{\mathbf{g}}$	0	v
I <sub>a</sub> (o)	50	mA
Ia (max. sig.)	275	mA
$I_{\mathbf{g}}$	50	mA
ig (pk) (per valve)	100	mA
$v_{in}$ (g-g) (pk)	200	v
Pdr	5	W
pa (o) per valve)	25	W
pa (max. sig.) (per valve)	50	W
$R_L$ (a-a)	10	kΩ
Pout	175	W
D	6	%
z <sub>in</sub> (g-g)	4	$\mathrm{k}\Omega$
z <sub>out</sub>	15	kΩ

The conditions given above apply to normal speech and music only. Continuous 100% tone modulation will result in excessive dissipation and for such applications,  $R_L(a-a)$  should be increased to 12 k $\Omega$ , resulting in a reduction of power output to 150 W.

#### **GENERAL**

The DA42 may be used as a replacement for the DA41 in existing equipment. In such cases, since the heater and cathode of the DA42 are not internally connected it is essential that pin 2 of the valve socket is earthed.

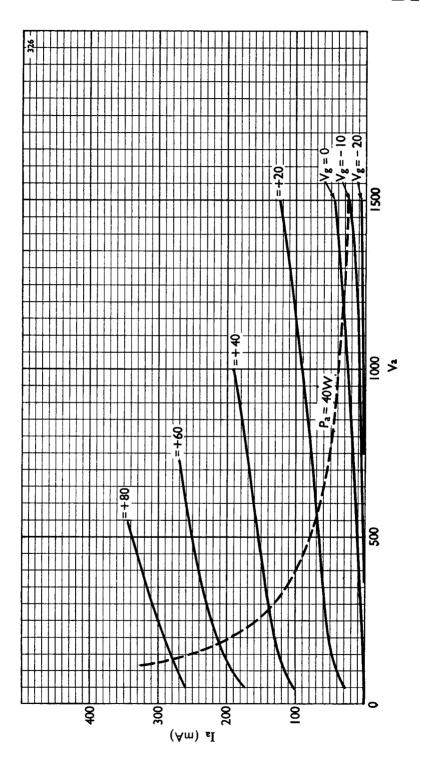
#### MOUNTING

Vertical with base down.

#### **VENTILATION**

No special precautions are necessary. The temperature of the hottest part of the bulb must not exceed 225°C.

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