

OUTPUT PENTODE

PEN428

Indirectly heated output pentode designed primarily for use in power amplifying equipment where an output of 20 to 30 watts is required. It is particularly suitable for class AB push-pull operation.

HEATER

V_h	4.0	V
I_h	2.1	A

OPERATING CONDITIONS—SINGLE VALVE IN CLASS "A"

V_a	250	V
V_{g2}	250	V
R_k	150	Ω
I_a	72	mA
R_a	3.2	k Ω
P_{out}	8.0	W
D_{tot}	10	%

OPERATING CONDITIONS—TWO VALVES IN CLASS "AB" PUSH-PULL

V_a	250	375	V
V_{g2}	275	275	V
$I_{a(o)}$	2×52	2×48	mA
$I_{g2(o)}$	2×4.0	2×5.0	mA
I_a (max. sig.)	2×66	2×62	mA
I_{g2} (max. sig.)	—	2×9.0	mA
R_k	120	165	Ω
R_{a-a}	4.5	6.5	k Ω
P_{out}	19	28	W
D_{tot}	6.0	3.0	%

OPERATING NOTES

In Class AB output stages the type of input coupling to the Pen428 should not introduce too much resistance in the grid circuit, and for all normal amplifier circuits transformer coupling should be used.

The voltages specified above refer only to Class AB operation with two valves, and are the maximum voltage conditions which must not be exceeded.

LIMITING VALUES

* V_a max.	250	V
* V_{g2} max.	250	V
p_d max.	18	W
p_{g2} max.	3.0	W
R_{g1-k} max.	700	k Ω
V_{h-k} max.	50	V
R_{h-k} max.	5.0	k Ω

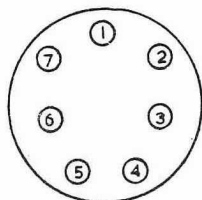
*In Class "AB" push-pull operation V_a max. = 375 V, V_{g2} max. = 275 V

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CONNECTIONS



Viewed from free end of pins

Brit. 7-Pin Base

Pin No. 1	NC
" 2	Control Grid (g_1)
" 3	Screen Grid (g_2)
" 4	Heater
" 5	Heater
" 6	Cathode
" 7	Anode

