

Mullard

ACORN TRIODE

4671

Heater	Vf	=	6.3	V
	If	=	0.15	A

Capacities	Cag	=	1.4	uuf
	Cgk	=	1.0	uuf
	Cak	=	0.6	uuf
	Cgf	=	0.3	uuf

Operating Conditions as H.F. Amplifier

Va	90	135	180	V
Ia	2.5	3.5	4.5	mA
Vg	-2.5	-3.75	-5	V
g	25	25	25	
S (Ia = 2.5 mA)	1.7	-	-	mA/V
S (Ia = 3.5 mA)	-	1.9	-	mA/V
S (Ia = 4.5 mA)	-	-	2.0	mA/V
Ri (Ia = 2.5 mA)	14,700	-	-	ohms
Ri (Ia = 3.5 mA)	-	13,200	-	ohms
Ri (Ia = 4.5 mA)	-	-	12,500	ohms

Operating Conditions as Oscillator

Va		180	V
Ia		7	mA
Ig		1.5	mA
Vg		-35	V
*Wo (λ = 5 m)		0.5	W

* Up to 300 Mc., the output decreases only slightly. Above this figure the output decreases with frequency.

Operating Conditions as Detector

	Anode Bend Detector	Leaky Grid Detector
Va	180	45
Vg	-7	0
Ra	0.25	-
Rk	50,000	-
Rg	-	1 - 5 megohms
Cg	-	250 uuf

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Limiting Values

Va max		180	V
Wa max		1.5	W
Ik max		10	mA
Vg max (Ig = + 0.3 uA)		-1.3	V
Ig max		2	mA
Rgl max		5	megohms
Vfk max		50	V
Rfk max		20,000	ohms

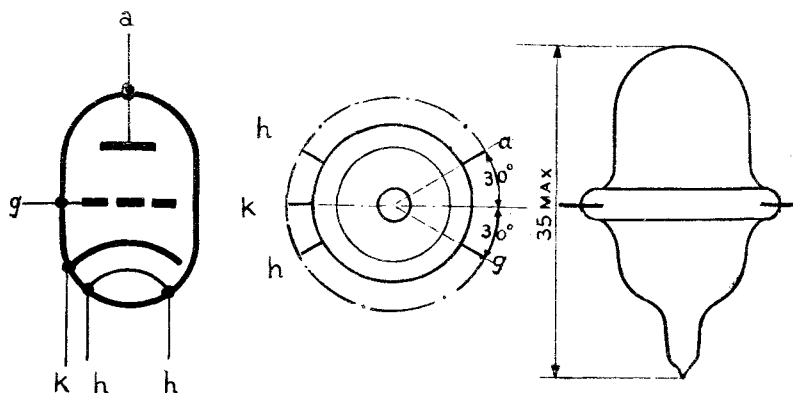
→ Damping

 λ
(m)

 Z_1
(ohms)

 Z_a
(ohms)
5
7100,000
45,00011,000
11,000

Arrangement of electrodes and base connections.

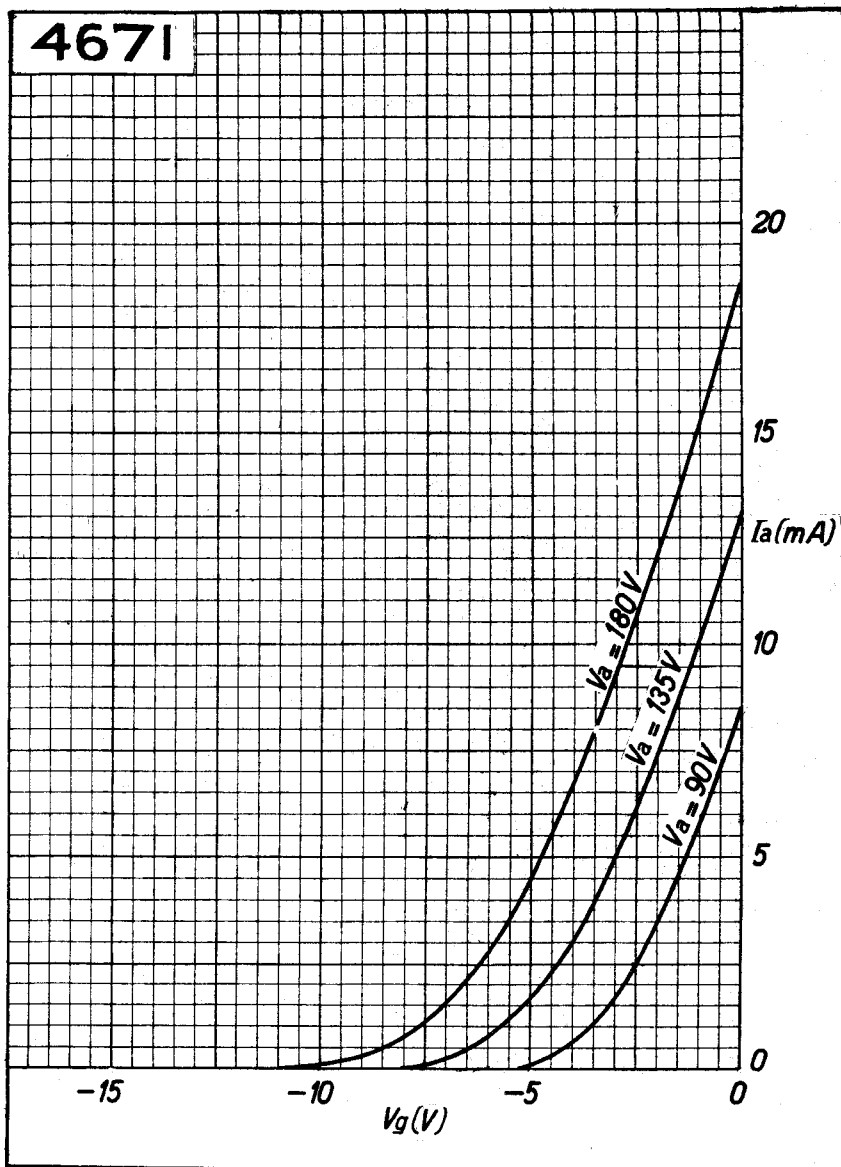


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