

DOUBLE TETRODE for use as H.F. amplifier and oscillator

DOUBLE TETRODE pour utilisation en amplificatrice et oscillatrice H.F.

DOPELTETRODE zur Verwendung als HF-Verstärker und Oszillator

Cathode : oxide coated	$V_f =$	6,3	12,6 V
Cathode : oxyde			
Katode : Oxyd	$I_f =$	1,6	0,8 A

Heating : indirect	Pins	
Chauffage : indirect	Broches 5-(1+7)	1-7
Heizung : indirekt	Stifte	

Capacitances	per system	$C_a =$	3,8 pF
Capacités	par système	$C_{g1} =$	8 pF
Kapazitäten	pro System	$C_{g1} <$	0,07 pF ¹⁾
		$C_{g2k} =$	65 pF ¹⁾

Typical characteristics	$\mu_{g2g1} =$	6,5
Caractéristiques types	$S(I_a=30mA)^2 =$	3 mA/V
Kenndaten		

λ	Freq.	C teleg. ³⁾			C _{ag2} mod. ³⁾		
		V_a (V)	W_o (W)		V_a (V)	W_o (W)	
			CCS	ICAS		CCS	ICAS
1,5	200	750	26	35	600	17	26
		500	26		425	16	
1,2	250	500	23				

Temperature of anode and pin seals
 Température des scellements de l'anode et des broches max.180 °C

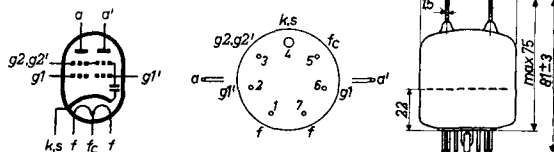
Temperatur der Anoden- und Stifteneinschmelzungen
 bulb temperature
 Température de l'ampoule max.220 °C
 Kolbentemperatur

¹⁾Including internal capacitor between grid No.2 and cathode
 Y compris le condensateur interne entre grille No.2 et la cathode
 Einschliesslich des inneren Kondensators zwischen Gitter 2 und Katode

²⁾Per system; par système; pro System

³⁾Two systems in push-pull; deux systèmes en push-pull; zwei Systeme in Gegentakt

Dimensions in mm
Dimensions en mm
Abmessungen in mm



Base, culot, Sockel: SEPTAR

Socket

Support

Fassung

40202

Anode clips

Bornes de connexion de l'anode

Anodenanschlussklemmen

40615

Mounting position: arbitrary

Montage : arbitrairement

Aufstellung : willkürlich

Net weight

Poids net

Nettogewicht

60 g

Shipping weight

Poids brut

Bruttogewicht

150 g

H.F. class C telegraphy, two systems in push-pull
H.F. classe C télégraphie, deux systèmes en push-pull
HF Klasse C Telegraphie, zwei Systeme in Gegentakt

Limiting values, continuous service
C.C.S. Caractéristiques limites, service continu
Grenzdaten, Dauerbetrieb

f — — — max. — 200 Mc/s	f — — — max. — 250 Mc/s
V_a = max. 750 V	V_a = max. 670 V
W_{ia} = max. 2x18 W	W_{ia} = max. 2x16 W
W_a = max. 2x7,5 W	
I_a = max. 2x45 mA	
V_{g2} = max. 250 V	
W_{g2} = max. 5 W	
$-V_{g1}$ = max. 175 V	
I_{g1} = max. 2x5 mA	
R_{g1} = max. 50 k Ω ¹⁾	
R_{g1} = max. 25 k Ω ²⁾	
V_{kf} = max. 100 V	

Operating conditions, continuous service
C.C.S. Caractéristiques d'utilisation, service continu
Betriebsdaten, Dauerbetrieb

f	=	200	200	200	250	250 Mc/s
V_a	=	750	500	400	500	400 V
V_{g2}	=	200	200	200	200	200 V
V_{g1}	=	-65	-65	-65	-65	-65 V
I_a	=	2x24	2x36	2x45	2x32	2x40 mA
I_{g2}	=	15	14	14	12	14 mA
I_{g1}	=	2x1,4	2x1,3	2x1,4	2x0,9	2x1,0 mA
$V_{g1g1'p}$	=	150	150	150	140	140 V
W_{ig1}	=	2x0,10	2x0,09	2x0,10	2x0,06	2x0,07 W
W_{g2}	=	3,0	2,8	2,8	2,4	2,8 W
W_{ia}	=	2x18	2x18	2x18	2x16	2x16 W
W_a	=	2x5	2x5	2x5,25	2x7,0	2x7,5 W
W_o	=	26	26	25,5	18	17 W
η	=	72	72	71	56	53 %

¹⁾Per system; par système; pro System

²⁾Per tube; par tube; pro Röhre

H.F. class C telegraphy, two systems in push-pull; continued

H.F. classe C télégraphie, deux systèmes en push-pull; continuation

HF Klasse C Telegraphie, zwei Systeme in Gegentakt; Fortsetzung

Limiting values, intermittent service

I.C.A.S. Caractéristiques limites, service intermittent
Grenzdaten, aussetzender Betrieb

f	= max.	200 Mc/s	f	= max.	250 Mc/s
V_a	= max.	750 V	V_a	= max.	670 V
W_{ia}	= max.	2x25 W	W_{ia}	= max.	2x22 W
W_a	= max.	2x10 W			
I_a	= max.	2x57,5 mA			
V_{g2}	= max.	250 V			
W_{g2}	= max.	5 W			
$-V_{g1}$	= max.	175 V			
I_{g1}	= max.	2x5 mA			
R_{g1}	= max.	50 k Ω ¹⁾			
R_{g1}	= max.	25 k Ω ²⁾			
V_{kf}	= max.	100 V			

Operating conditions, intermittent service

I.C.A.S. Caractéristiques d'utilisation, service intermittent
Betriebsdaten, aussetzender Betrieb

f	=	200 Mc/s
V_a	=	750 V
V_{g2}	=	200 V
V_{g1}	=	-50 V
I_a	=	2x32,5 mA
I_{g2}	=	22 mA
I_{g1}	=	2x2,0 mA
$V_{g1g1}'p$	=	130 V
W_{ig1}	=	2x0,12 W
W_{g2}	=	4,4 W
W_{ia}	=	2x24,4 W
W_a	=	2x6,9 W
W_o	=	35 W
η	=	72 %

1) Per system; par système; pro System

2) Per tube; par tube; pro Röhre

H.F. class C anode and screen grid modulation, two systems in push-pull

H.F. classe C modulation d'anode et de grille-écran, deux systèmes en push-pull

HF Klasse C Anoden- und Schirmgittermodulation, zwei Systeme in Gegentakt

Limiting values, continuous service

C.C.S. Caractéristiques d'utilisation, service continu
Grenzdaten, Dauerbetrieb

$f_{max} = 200 \text{ Mc/s}$ $f_{max} = 250 \text{ Mc/s}$

$V_a = max. 600 \text{ V}$ $V_a = max. 530 \text{ V}$

$W_{ia} = max. 2 \times 11 \text{ W}$ $W_{ia} = max. 2 \times 10 \text{ W}$

$W_a = max. 2 \times 5 \text{ W}$

$I_a = max. 2 \times 37,5 \text{ mA}$

$V_{g2} = max. 250 \text{ V}$

$W_{g2} = max. 3,4 \text{ W}$

$-V_{g1} = max. 175 \text{ V}$

$I_{g1} = max. 2 \times 5 \text{ mA}$

$R_{g1} = max. 50 \text{ k}\Omega^1)$

$R_{g1} = max. 25 \text{ k}\Omega^2)$

$V_{kf} = max. 100 \text{ V}$

Operating conditions, continuous service

C.C.S. Caractéristiques d'utilisation, service continu
Betriebsdaten, Dauerbetrieb

$f = 200$ 200 Mc/s

$V_a = 600$ 425 V

$V_{g2} = 200$ 200 V

$V_{g1} = -65$ -60 V

$I_a = 2 \times 18$ $2 \times 26 \text{ mA}$

$I_{g2} = 16$ 16 mA

$I_{g1} = 2 \times 1,3$ $2 \times 1,2 \text{ mA}$

$V_{g1g1'p} = 150$ 140 V

$W_{ig1} = 2 \times 0,09$ $2 \times 0,075 \text{ W}$

$W_{g2} = 3,2$ $3,2 \text{ W}$

$W_{ia} = 2 \times 10,8$ $2 \times 11 \text{ W}$

$W_a = 2 \times 2,3$ $2 \times 3 \text{ W}$

$W_o = 17$ 16 W

$\eta = 79$ 72%

$m = 100$ 100%

$W_{mod} = 13,5$ $13,5 \text{ W}$

¹⁾Per system; par système; pro System

²⁾Per tube; par tube; pro Röhre

H.F. class C anode and screen grid modulation, two systems in push-pull; continued

H.F. classe C modulation d'anode et de grille-écran, deux systèmes en push-pull; continuation

HF Klasse C Anoden- und Schirmgittermodulation, zwei Systeme in Gegentakt; Fortsetzung

Limiting values, intermittent service

I.C.A.S. Caractéristiques limites, service intermittent
Grenzdaten, aussetzender Betrieb

f	= max.	200 Mc/s
V_a	= max.	600 V
W_{ia}	= max.	2x18 W
W_a	= max.	2x7,5 W
I_a	= max.	2x47,5 mA
V_{g2}	= max.	250 V
W_{g2}	= max.	5 W
$-V_{g1}$	= max.	175 V
I_{g1}	= max.	2x5 mA
R_{g1}	= max.	50 k Ω ¹⁾
R_{g1}	= max.	25 k Ω ²⁾
V_{kf}	= max.	100 V

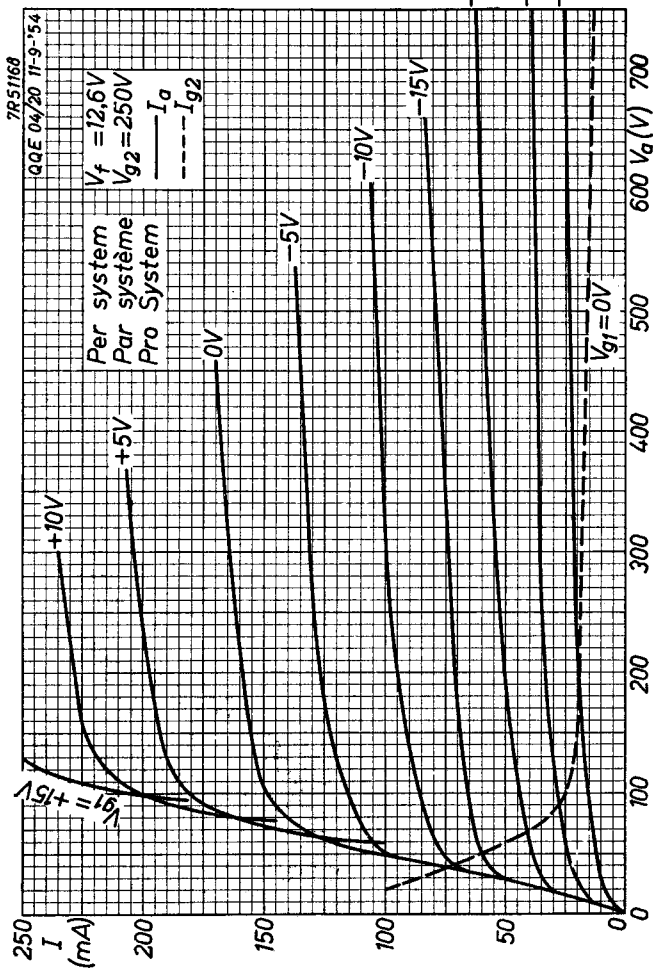
Operating conditions, intermittent service

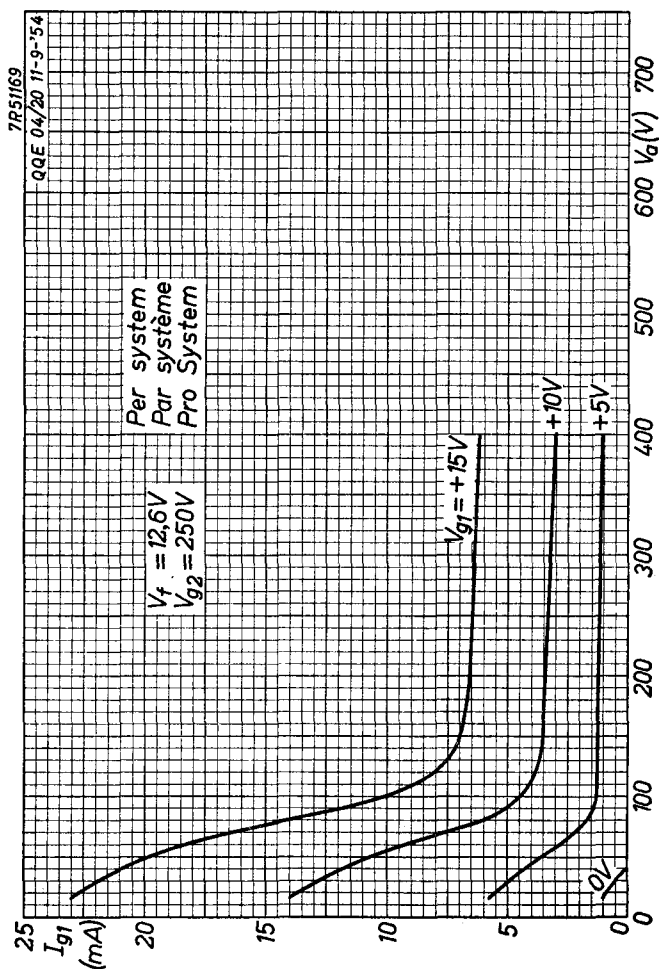
I.C.A.S. Caractéristiques d'utilisation, service intermittent
Betriebsdaten, aussetzender Betrieb

f	=	200 Mc/s
V_a	=	600 V
V_{g2}	=	200 V
V_{g1}	=	-70 V
I_a	=	2x30 mA
I_{g2}	=	20 mA
I_{g1}	=	2x1,5 mA
$V_{g1g1'p}$	=	160 V
W_{ig1}	=	2x0,105 W
W_{g2}	=	4,0 W
W_{ia}	=	2x18 W
W_a	=	2x5 W
W_o	=	26 W
η	=	72 %
m	=	100 %
W_{mod}	=	20 W

¹⁾Per system; par système; pro System

²⁾Per tube; par tube; pro Röhre







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page	sheet	date
1	1	1954.07.07
2	2	1954.07.07
3	3	1954.07.07
4	4	1954.07.07
5	5	1954.07.07
6	6	1954.07.07
7	A	1954.07.07
8	B	1954.07.07
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