Rogers Electronic Tubes & Components

7 DJ 8

Description:		with high transconduct as cascode amplifier i ceivers				
Mechanical data						
Cathode		coated, unipote	ential			
Base		E 9-1				
Bulb		T 6 ¹ /2				
Outline		6 - 2				
Basing		9 DE				
Mounting po	osition	any				
TUBE OUTLINE	BOTTOM VIE	No.	ELEMENT			
max 7/8"	<u>-</u>		Grounded-grid			
	- ↑		output section			
1 11		3 Cathode				
		4 Heater				
		5 Heater				
10 x 2 1/16			Grounded-cath-			
max &		\frac{1}{2}	ode input sec- tion			
" "		8 Cathodel				
		9 Internal	sniela			
	<u>♦ ♦</u>					
<u> </u>						
<u>Heater data</u>						
Heater volt	age		7 volts			
Heater curr	rent		300 mamps			
Direct interelectrode capacitances						
		without - external :	- with			
		external	smeld			
Grounded-cathode_section						
Grid to all other elements except plate 3.3 3.3 μμΓ						
Plate to al	l other elements	s except grid 1.8	2.5 μμF			
Plate to gr	id	1.4	1.4 μμΕ			
Grid to hea	ter	0.13	0.13 μμΓ			

			(1	~			
Direct interelectrode capacitances (continue	d)						
		-with					
exte	ernal	shield					
<u>Grounded-grid</u> <u>section</u>							
Cathode to all other elements except plate	6,0	6,0	$\mu\mu F$				
Plate to all other elements except cathode	2,8	3.7	$\mu\mu F$				
Plate to grid	1,4	1.4	$\mu\mu F$				
Cathode to heater	2.7	2.7	$\mu\mu F$				
Plate to cathode	0,18	0.16	$\mu\mu F$				
Between grounded-cathode_and_grounded-grid_section							
Plate to plate max.	0,045	0.015	$\mu\mu F$				
Grid (grounded-cathode-section) to plate (grounded-grid-section) max.	0,005	0.005	μμ F				
Novimus matters (acab coatter) (3							
<u>Maximum ratings</u> (each section) (design center Plate voltage (with cold cathode)	r valu	-	volts	m or			
Plate voltage (with cold cathode)			volts				
_		-	watts				
Plate dissipation Cathode current		•					
			mamps volts				
Negative grid voltage Grid circuit resistance			megohm				
Voltage between cathode and heater		1	megoriii	шах			
(grounded cathode section)		80	volts				
Peakvoltage between cathode and heater				max			
(grounded grid section; cathode positive with respect to heater)		180	volts	max			
D.C. component of cathode to heater volt-		, = 0					
age (grounded grid section)		130	volts	max			
Circuit resistance between heater and	_		_				
cathode	2	20.000	onms	nax.			
Typical characteristics (each section)							
Plate voltage		90	volts				
Grid bias		•	volts				
Plate current		_	mamps				
Transconductance			micro	nhos			
Amplification factor		33	- *	_			
Equivalent noise resistance			ohms				
		•					

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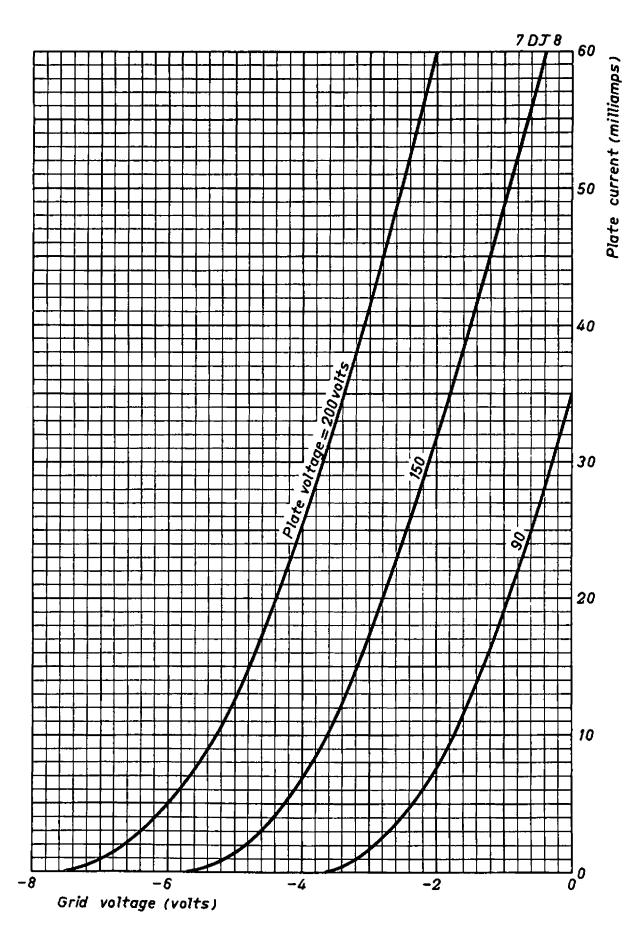
Remark:

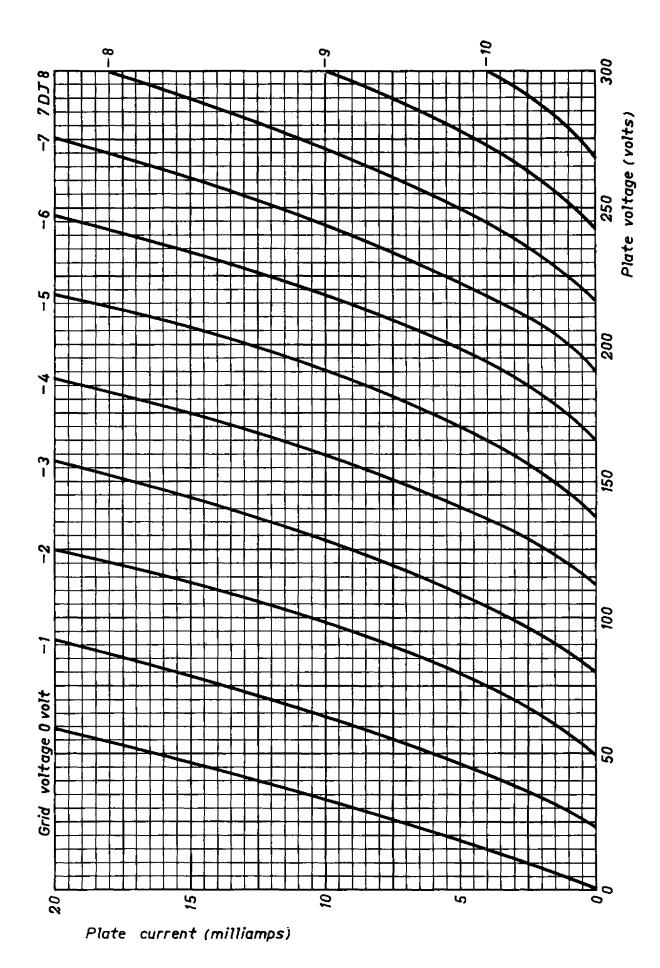
In order not to exceed the maximum permissible plate voltage when the cascode amplifier is controlled, it is necessary to use a voltage divider for the grid

of the grounded-grid section.

With grid current biasing for the grounded-cathode section the plate voltage across this section should not exceed 75 volts in the not-controlled condition.

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