GS-3A

The GS-3A beam-power tetrode amplifies RF power.

GENERAL

Cathode: indirectly heated, oxide-coated. Envelope: metal-ceramic. Cooling: forced water. Height: at most 128 mm. Diameter: at most 91 mm. Mass: at most 800 g.

OPERATING ENVIRONMENTAL CONDITIONS

Vibration loads:		1-200
accoloration m/c ²		50
Multiple impacts:		39
acceleration m/s ²		302
impact duration ms		10
Ambient temperatur	re °C	-60 to +7
Relative humidity at	98	
BASIC DATA Elect	rical Parameters	
Heater voltage (AC	or DC), V	26
Heater current, A		3.1-3.8
Mutual conductance	e (at anode voltage 1500 V ,	
grid 2 voltage 600 V	, grid 1 voltage change	-10V
and anode current 1	30-50	
Gain coefficient (gri	d 1 -grid 2) (at anode	
voltage 2,000 v, grid	$d \ge voltage 500 v, grid \ge v (and anoda ourrant 1.4)$	0 1 2
Output power (at an	ode voltage 2 500 V grid 2	0-13
voltage 500 V and	e current 2 A driving power	
250 V, wavelength f	50 cm), kW, at least	2.2
Interelectrode capac	citance, pF:	
input .	26-34	
output, at most	0.07	
transfer	17-23	
Limit Operating Va	lues	
Heater voltage (AC	23.4-27.3	
Heater starting curr	ent, A	5.6
Anode voltage (DC)	, kV	2.7
Grid 2 voltage, V		700
Driving power, w		300
Dissipation, w.	2-103	
arid 1	30	
arid 2	60	
Anode current (DC)	component). A	2.6
Warm up time, s		120
Operating frequency	y, MHz	300-800
Anode temperature,	O°C	110
Temperature of cath	150	





lα,A '																
27	-		_	-			_							-		
-,	-	_		_	-	_			Uc	11 *	٥v	[-	-	_	-	
2,5			-	-					\leq			-	-	_	-	-
2,3					4						-	5				
21			1	1							-					
2,1		_	<u> </u>	_	4	<u> </u>					- /	U	_			
1,9	\vdash	-	7	4						-	-		-			_
1,7					Z		_	_								
15			1								- 2	0				
.,0						_	-	-			_	_				_
1,3	\vdash				4	<u> </u>		-		-	-	-			-	-
1, 1			1							_	-3	o				
	\vdash		-	_	┢	-		-	-		-	-	_	-	-	-1
U,9			Z								-4	0				
D,7	Ц	_					\sim		_				_			
05	Н	-	7	4	-		-	-	-	-			-	-		
ί,	2,2	0	6	1,1	0	1;	¥	1,	8	2	2	2,	б	U	q. 1	۲V
Averaged Anode-Grid Characteristic Curves: $U_{\rm f}=$ 26 V; $U_{\rm a}=$ 2.5 kV																