

6678/6U8-A MEDIUM-MU TRIODE— SHARP-CUTOFF PENTODE

9-PIN MINIATURE TYPE

For use in mobile communications equipment

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	GENI	ERA	L DATA					
Electrical:								
Heater, for Unipotential Voltage		6 0.4	.3 ± 20%* 45 nces: Without		volts amp			
			External Shield					
Triode Unit: Grid to plate Grid to cathode and		•	1.8	1.8	$\mu\mu$ f			
heater		•	2.5	2.5	μμf			
heater			0.4	1	μμf			
Pentode Unit: Grid No.1 to plate. Grid No.1 to cathode of grid No.3 & internations shield, grid No.2,	&	•	0.01 max	. 0.006 max.	$\mu \mu$ f			
and heater Plate to cathode & gr No.3 & internal ship	id	•	5	5	$\mu\mu$ f			
grid No.2, and heat			2.6	3.5	$\mu\mu$ f			
Heater to cathode (Each unit)			3	3 •	μμf			
Characteristics, Class A Amplifier:								
With heater voltage of 6.3 volts								
				Pentode Unit				
Plate Supply Voltage [Grid-No.2 (Screen-grid)		ı	150	250	volts			
Supply Voltage				110	volts			
Cathode Resistor Amplification Factor		1	56 40	- 68 	ohms			
Plate Resistance (Approx.)			5000	400000	ohms			
Transconductance			8500	5200	<i>μ</i> mhos			
Plate Current		,	18	10	ma			
Grid-No.2 Current Grid-No.1 Voltage (Approx.		•	-	3.5	ma			
for plate $\mu a = 10 \dots$			-12	-10	volts			
Mechanical:								
Operating Position Maximum Overall Length Maximum Seated Length Length, Base Seat to Bulb [.] Diameter	 Гор	(E	xcluding t	ip). 1-9/16"±				

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Dimensional Outline	otton Noval TOM VIEW	9-Pin (JEDEC	. T6-1/2 No.E9-1)9AE 2, 2, 3, al				
CONVERTER SERVICE							
Maximum Ratings, Design-Maxim	um Values:						
= -	Triode Unit	t Pentode Uni	t				
	as Osc.	as Mixer					
PLATE VOLTAGE	330 max.	330 max.	volts				
SUPPLY VOLTAGE	_	330 max.					
GRID-No.2 VOLTAGE	-	See Grid-No					
Rating Chart at	front of l	Receiving Tube	Section				
GRID-No.1 (CONTROL-GRID) VOLTAGE:							
Positive-bias value	0 max.	0 max.	volts				
GRID-No. 2 INPUT:							
For grid-No.2 voltages up		^ ==					
to 165 volts	-	0.55 max.	watt				
For grid-No.2 voltages between 165 and 330 volts.	_	See Grid-No	- Tonhut				
Rating Chart at							
PLATE DISSIPATION		meceloling luve 3 max.	watts				
PEAK HEATER-CATHODE							
VOLTAGE:							
Heater negative with	200 may	200 may	vol+6				
respect to cathode Heater positive with	200 max.	200 max.	volts				
respect to cathode	200≜ max.	200≜ max.	volts				
Toopoot to database	200		• •				
* When the heater is operated from or similar supplies, the normal much as 35 per cent or more. Alt is permissible for short period improved supply-voltage regulat	battery-volt hough such va is, reliabili ion.	age fluctuation ariation in heatent in heatent in heatent in the incre	may be as er voltage ased with				
With external shield JEDEC No.3 test except as noted.	16 connected	to cathode of u	nit under				
with external shield JEDEC No.31	5 connected t	to ground.					
The dc component must not exceed		· · · ·					

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SPECIAL RATINGS & PERFORMANCE DATA

Heater-Cycling Life Performance:

This test is performed on a sample lot of tubes from each production run. A minimum of 2000 cycles of intermittent operation is applied under the following conditions: heater volts = 7.5 cycled one minute on and one minute off, heater 135 volts positive with respect to cathode, and all other elements connected to ground. At the end of this test, tubes are checked for heater-cathode shorts and open circuits.

Transconductance at Reduced Heater Voltage:	
Triode Unit: Average value	•
Pentode Unit: Average value	grid-No.