Sharp-Cutoff Pentode

7-PIN MINIATURE TYPE For Mobile-Communications Equipment

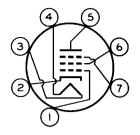
GENERAL DATA

ULITERAL PATA			
Electrical:			
Heater Characteristics and Ratings (Absolute-Maximum Values):			
Voltage (AC or DC)		6.3ª	volts
Voltage (AC or DC) Current at heater volts = 6.3		0.300	amp
Peak heater-cathode voltage:			
Heater negative with			
respect to cathode		200 max.	volts
Heater positive with			
respect to cathode		200 b max.	volts
Direct Interelectrode Capacitan	ces:		
	Without	With	
	External	External	
	Shield	Shield c	
Grid No.1 to plate		0.015 max.	$\mu\mu$ f
Grid No.1 to cathode, grid	0.025 max.	0.010 max.	μμ.
No.3 & internal shield,			
grid No.2, and heater	6.5	6.5	$\mu\mu$ f
Plate to cathode, grid No.3			FT
& internal shield, grid			
No.2, and heater	2.0	3.0	$\mu\mu$ f
·		ŕ	
Characteristics, Class A _I Amplifier:			
Plate Supply Voltage		. 125 125	volts
Grid No.3	Connected to	cathode at	socket
Grid-No.2 Supply Voltage		. 125 125	volts
Grid-No.1 Voltage		3 -	volts
Cathode Resistor		. – 56	ohms
Plate Resistance (Approx.)			megohm
Transconductance			μ mhos
Plate Current			ma
Grid-No.2 Current		•3.7	ma
Grid-No.1 Voltage (Approx.) for	-	О. Г	1 1
plate $\mu a = 20^{\circ}$		6.5	volts
Mechanical:			
Operating Position			Δnv
Operating Position Type of Cathode		Coated Union	tential
Maximum Overall Length		odated empe	2-1/8"
Maximum Seated Length			1-7/8"
Maximum Seated Length Length, Base Seat to Bulb Top (Exc	ludina tin)	1-1/2"	+ 3/32"
Diameter	, rading erp,	0.650" to	0.750"
Diameter		See General	Section
Bulb			T5-1/2
Bulb	Miniature 7-	Pin (JEDEC N	o.E7-1)
,			

6676/6CB6A

Basing Designation for BOTTOM VIEW. 7CM

Pin 1-Grid No.1 Pin 2-Cathode Pin 3-Heater Pin 4-Heater Pin 5-Plate



Pin 6-Grid No.2 Pin 7-Grid No.3 Internal Shield

AMPLIFIER - Class A

Maximum Ratings, Absolute-Maximum Values:

GRID-No.1 (CONTROL-GRID) VOLTAGE:

Positive-bias value 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 be-

tween 165 and 330 volts .See *Grid-No.2 Input Rating Chart* at front of Receiving Tube Section

PLATE DISSIPATION 2.3 max. watts

- When operated from storage-battery systems, the heater may be subjected to voltage variations as great as ± 20 per cent. Although such extremes in heater voltage may be tolerated for short periods, increased equipment reliability can be achieved with improved supply-voltage regulation.
- b The dc component must not exceed 100 volts.
- c with external shield JEDEC No.316 connected to cathode.

SPECIAL RATINGS & PERFORMANCE DATA

Heater Cycling:

Cycles of Intermittent Operation. 2000 min. cycles

This test is performed on a sample lot of tubes from each production run 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:

Average Value 7100 μmhos

With heater volts = 5.0, plate supply volts = 125, grid-No.3 connected to cathode at socket, grid-No.2 supply volts = 125, and cathode resistor (ohms) bypassed = 56.

