

PALE

REMOTE-CUTOFF PENTODE

7-PIN MINIATURE TYPE

For use in automobile radio receivers operating directly from 12-volt storage batteries

GENERAL DATA			
Electrical:			
Direct Interelectrode Capacitances: OGRID No.1 to plate 0.006 max. Grid No.1 to cathode, grid No.3 & internal shield, grid No.2, and heater. 5.5 Plate to cathode, grid No.3 & internal	lts amp μμf μμf μμf		
Mechanical:			
Operating Position	/8" /8" 32" /4" ion		
Pin 1-Grid No.1 Pin 2-Grid No.3, Internal Shield Pin 3-Heater Pin 4-Heater Pin 5-Plate Pin 6-Grid No. Pin 7-Cathode	2		
AMPLIFIER - Class A			
Maximum Ratings, Design-Center Values:			
PLATE VOLTAGE	lts		
	lts ma		
Heater negative with respect to cathode 30 max. vo	lts lts		
Characteristics with 12.6 Volts on Heater:			
Grid-No.3 (Šuppressor-Grid) Voltage 0 vo	lts lts		
,°: See next page.			

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Grid-No.2 Voltage	12.6	volts
Grid-No.1 Supply Voltage	0	volts
Grid-No.1 Resistor (Bypassed)	2.2	megohms
Plate Resistance (Approx.)	0.5	megohm
Transconductance	1350	<i>μ</i> mhos
Plate Current	1.35	ma
Grid-No.2 Current	0.5	ma
Grid-No.1 Voltage (Approx.) for trans-		
conductance of 10 μ mhos	6	volts
Grid-No.1 and Grid-No.3 Voltage (Approx.)		
for transconductance of 10 μ mhos	-5	volts
		1

Maximum Circuit Values:

Grid-No.1-Circuit Resistance 10 max. megohms

OPERATING CONSIDERATIONS

The maximum ratings in the tabulated data for the 12BL6 are working design-center maximums established according to the standard design-center system of rating electron tubes. Tubes so rated will give satisfactory performance in storage-battery-operated equipment provided the following stipulations are observed:

In the case of storage-battery-with-charger supply or similar supplies, the normal battery-voltage fluctuation may be as much as 35 per cent or more. This fluctuation imposes severe operating conditions on tubes. Under these conditions, the equipment should be designed so that 90 per cent of the design-center maximum value of plate voltage and grid-No.2 voltage is never exceeded for a battery-terminal potential of 13.2 volts. Although the operating voltages of the 12BL6 in this service will, at times, exceed the design-center maximum values, satisfactory performance with probable sacrifice in life will be obtained.

Operation of heater in series with other heaters is not recommended.
 With external shield JETEC No.316 connected to cathode.