

12FU

DUAL PENTODE

8BM11

Duodecar type used as if amplifier in television receivers. Unit No.1 is a semiremote-cutoff pentode, and unit No. 2 is a sharp-cutoff pentode. Outlines section, 8B; requires duodecar 12-contact socket. Heater: volts (ac/dc), 8.4; amperes, 0.45; maximum heater-cathode volts, ± 200 peak, 100 average.

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)

	Unit No.1	Unit No.2	
Plate Voltage	160	160	volts
Grid-No.3 (Suppressor-Grid) Voltage	0	0	volts
Grid-No.2 (Screen-Grid) Voltage	160	160	volts
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0	0	volts
Plate Dissipation	2.2	2.2	watts
Grid-No.2 Input	0.55	0.55	watt

CHARACTERISTICS

Plate Supply Voltage	125	125	volts
Grid No.3	Connected to cathode at socket		
Grid-No.2 Voltage	125	125	volts
Cathode-Bias Resistor	56	120	ohms
Plate Resistance (Approx.)	220000	300000	ohms
Transconductance	8300	8500	μ mhos
Plate Current	14	9	mA
Grid-No.2 Current	3.6	2.5	mA
Grid-No.1 Voltage (Approx.) for plate current of 20 μ A	—	—5.5	volts
Grid-No.1 Voltage (Approx.) for transconductance of 50 μ mho	—16.5	—	volts

MAXIMUM CIRCUIT VALUES

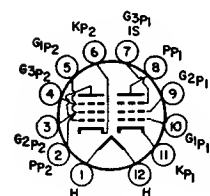
Grid-No.1-Circuit Resistance, for cathode-bias operation	1	0.25	megohm
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Refer to type 6BN8.

8BN8

Refer to type 6BQ5.

8BQ5



12DM

SEMIREMOTE-CUTOFF
DUAL PENTODE

8BQ11

11BQ11

Duodecar type used as intermediate-frequency amplifier in television receivers. Outlines section, 8B; requires duodecar 12-contact socket. Type 11BQ11 is identical with type 8BQ11 except for heater ratings.

	8BQ11	11BQ11	
Heater Voltage (ac/dc)	8.4	11.2	volts
Heater Current	0.6	0.45	ampere
Heater Warm-up Time (Average)	11	11	seconds
Heater-Cathode Voltage:			
Peak value	± 200 max	± 200 max	volts
Average value	100 max	100 max	volts

Direct Interelectrode Capacitances:

	Unit No.1	Unit No.2	
Grid No.1 to Plate	0.022	0.024	pF
Grid No.1 to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield	10	—	pF
Plate to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield	2.8	—	pF
Grid No.1 to Cathode, Heater, Grid No.2, Grid No.3, Grid No.3 of Unit No.1, and Internal Shield	—	11	pF
Plate to Cathode, Heater, Grid No.2, Grid No.3, Grid No.3 of Unit No.1, and Internal Shield	—	2.8	pF