12G-B3 is a high-perviance, beam pentode designed for use as a horizontal deflection output amplifier in transformer-less television receivers.

BASE B5-187 Octal
TOP CAP C1-2 Skirted Miniature
MOUNTING POSITION—Any
HEATER

Voltage	12.6 (V)
Current	0.6 (A)
Warm-up Time	11 (sec)

MAXIMUM RATINGS (Design Center Values)§		TYPICAL OPERATION		
D.C. Plate Voltage	550 (V)	Plate Voltage	40	100 (V)
Peak Pulse Plate Voltage	+6,600◇ (V) / −1,500 (V)	Grid No. 2 Voltage	100	100 (V)
Grid No. 2 Voltage	200 (V)	Grid No. 1 Voltage	0	−7.7 (V)
Peak Negative Grid No. 1 Voltage	−1,000 (V)	Plate Current	240	100 (mA)
Plate Dissipation	10 (W)	Grid No. 2 Current	19	7 (mA)
Grid No. 2 Dissipation	5 (W)	Transconductance	—	14,000 (μ℧)
Total Cathode Current	150 (mA)	Plate Resistance (Approx.)	—	5.3 (kΩ)
Peak Heater—Cathode Voltage				
Heater negative with respect to cathode	200 (V)			
Heater positive with respect to cathode	200△ (V)			
Grid No. 1 Circuit Resistance	2.2 (MΩ)			

§ For operation in a 525-line, 30-frame system.
◇ The duration of the voltage pulse must not exceed 15 per cent of one horizontal scanning cycle.
Under on circumstances should this absolute value be exceeded.
△ The D.C. component must not exceed 100 volts.

AVERAGE PLATE CHARACTERISTICS