Electron tube type EL84 / 6BQ5

Miniature Power Pentode

The EL84 is an output pentode designed for application in medium power high fidelity and musical instrument amplifiers. The true pentode characteristics of this tube reduce distortion at low instantaneous anode voltages which allow larger AC swings and increased undistorted output as compared with beam power tubes in the same power class.

STATIC VALUES

Cathode - coated unipotential.

Heater - 6.3 volts at .76 amps AC or DC

Max diameter - 22 mm

Max height - 78.5 mm; 71.4 mm seated

Life-time guarantee - 1,000 hours minimum

AMPEREX TUBE TYPE 6BQ5/EL84

The 6BO5/EL84 is an output pentode designed for application in medium power Hi-Fi amplifiers. A pair of tubes in Class AB, push-pull conventional operation yields an output of up to 17 watts at 4% distortion (without feedback). In single-ended operation a power output of 5.7 watts can be obtained.

The true periode characteristics of this tube reduce distortion at low instantaneous plate voltages which allow larger A.C. swings and increased undistorted output as compared with beam power tubes in the same power class.

GENERAL CHARACTERISTICS

ELECTRICAL

Cathode	coated unit	coated unipotential	
Heater Voltage		volts	
Heater Current	0.76	amps.	
Direct Interelectrode Capacitances			
Grid No. 1 to all elements except plate	10.8	<i>щи</i> f	
Plate to all other elements except Grid		μμι f	
Plate to Grid No. 1		μμ f	
Grid No. 1 to heater	0.25		
Characteristics			
Plate Voltage	250	volts	
Grid No. 2 Voltage	250	volts	
Plate Current	48	m A	
Grid No. 2 Current	5.5	m A	
Grid No. 1 Veltage	- 7.3	volts	
Transconductance		micromhos	
Plate Resistance		KΩ	
Amplification Factor (Grid No. 1 to Grid			
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MECHANICAL

Base	Small button, 9 pin, RETMA #9CV
Max. Overall Length	3 1/16 inches
Max. Seated Height	2 13/16 inches
Max. Diameter	7/8 inches
Mounting Position	any

MAXIMUM RATINGS (Design Center Values)

Plate Voltage	300	volts
Plate Dissipation	12	watts
Grid No. 2 Voltage	300	volts
Grid No. 2 Dissipation (zero signal)	2.0	watts
Grid No. 2 Dissipation (max. signal)	4.0	watts
Cathode Current	65	m A
Grid Resistance (cathode bias)	1.0	$M\Omega$
Grid Resistance (fixed bias)	300	$K\Omega$
Filament to Cathode Voltage	100	volts

