

Low-noise miniature audio pentode designed specifically for the early stages of high-gain audio amplifiers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 200 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	5000000 Ω
TRANSCONDUCTANCE	0.00185 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	200 V
Amalgamated Wireless 6BK8 miniature internally screened low-noise audio-frequency pentode for input stages of high-gain microphone and tape amplifiers. Heater 6.3 V 0.2 A (corrected from parent 0.3 A), nine-pin E9-1 base with 9BJ basing. Published maximum anode 300 V, screen grid 200 V, cathode current 2.6 mA; heater-to-cathode peak maximum 150 V. Approximate plate resistance 5 MΩ at anode 250 V/screen 140 V, and gm 1850 μmhos (0.00185 S) at plate current 3 mA. Typical low-noise service at anode 175 V with high-value anode loads and cathode bias. Cold unscreened interelectrode capacitances published; suppression of hum/microphony crucial. AC heater winding center tap recommended for low hum, internal screen and optional external shield. Typical input-referred hum <=1.5 μV under stated conditions.	

Miniature A.F. pentode; low-noise pentode for early high-gain audio-amplifier stages. The source explicitly describes it for the early stages of high-gain audio amplifiers.

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