



ELECTRONIC TUBE REFERENCE

6889

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

High-perveance Bendix pentode for pulse amplification and high-voltage regulator service in demanding professional control and power circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	6
NOMINAL HEATER	6.3 V / 1.2 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Beam Power	
TRANSCONDUCTANCE	0.0054 S
MAXIMUM PLATE VOLTAGE	3000 V
MAXIMUM SCREEN VOLTAGE	850 V
MAXIMUM PLATE DISSIPATION	30 W
MAXIMUM SCREEN DISSIPATION	3.5 W
MAXIMUM CATHODE CURRENT	125 mA

Bendix TE-52 / 6889 genuine BEAM POWER amplifier, not an ordinary pentode, for high-voltage regulator and high-perveance pulse service in rugged aircraft, military and industrial systems. Heater 6.3 V 1.20 A, warm-up about 45 s; six-pin short intermediate-shell octal base with separate top-cap plate connection. Absolute DC maximum plate voltage 3000 V, screen voltage 850 V, plate dissipation 30 W, screen dissipation 3.5 W, cathode current 125 mA. Separate peak cathode limits: 250 mA instantaneous peak for continuous sine wave, conditional pulse maximum 4.5 A subject to duty-factor curves. Production-test typical gm 5400 μ mhos (0.0054 S), allowable range 4500–6300 μ mhos, test conditions not assumed as universal operating characteristics. Heater-to-cathode max $\pm$ 450 V, bulb-temperature ceiling 300°C; maximum pulse plate current changes with duty factor and shall not be promoted as unrestricted DC current.

High-perveance pentode for pulse and high-voltage regulator service.

TUBE TINKER

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