



ELECTRONIC TUBE REFERENCE

6384

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Rugged Bendix high-perveance beam-power amplifier for aircraft, military, and industrial equipment, engineered for long service life under high temperature, vibration, and shock.

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	750 V
MAXIMUM SCREEN VOLTAGE	325 V
MAXIMUM PLATE DISSIPATION	30 W
MAXIMUM SCREEN DISSIPATION	3.5 W
MAXIMUM CATHODE CURRENT	125 mA
<i>Published characteristics and ratings promoted where clearly recoverable from source.</i>	

One of the Bendix line of 'i';[;'"'i' tubes, this high- perveance beam power amplifier has been designed as « direct retrofit for the 6AR6 or 6098 in aircraft, military and industrial applications where freedom from early failures, long average service life and uniform operating characteristics are extremely important. Each tube is given a 45-hour run-in under overload, vibration and shock conditions. This run-in serves to reduce early failures by eliminating tubes with any minor defects that might lead to failure under operating conditions. Since this tube is designed for use in equipment with high ambient temperatures

and where high levels of vibration and shock are encountered, special materials and techniques are employed. The hard glass bulb and tungsten stem seal construction are features similar to those found on many high-powered transmitting tubes. Careful exhaust to a high degree of vacuum, with thorough outgassing of all elements by means of electron bombardment, as well as the usual RF induction heating, insures

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

196X Bendix

Published test conditions and operating points. Values on this page are preserved as reported by this source.

196X BENDIX

Section 1 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Current	50 A	Published datasheet value; see source context.
Plate Current	506 mA	Published datasheet value; see source context.
Transconductance	15 μ S	Published datasheet value; see source context.
Cathode Warmup Time Minimum	45 s	Bendix 6384 cathode warm-up time

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	6384 V	Published datasheet value; see source context.
Cathode Current	6 mA	Published datasheet value; see source context.