



ELECTRONIC TUBE REFERENCE

6146W

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Ruggedized military 6146-family beam-power transmitting tube designed for reliable RF power service under severe environmental and mechanical conditions.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 1.25 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Beam Power	
TRANSCONDUCTANCE	0.007 S
AMPLIFICATION FACTOR	4.5
MAXIMUM PLATE VOLTAGE	750 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	25 W
MAXIMUM SCREEN DISSIPATION	3 W
MAXIMUM CATHODE CURRENT	135 mA
<i>Published electrical limits and characteristics promoted from the approved source; identical repeated sections compressed where applicable.</i>	

Rugged high-reliability RF transmitting beam power tube for Class-C and linear power-amplifier service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 Mazda Belvu

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

1968 MAZDA BELVU

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	6.3 V	Nominal
HeaterCurrentNominal	1.25 A	Nominal
Maximum Plate Voltage	750 V	—
Maximum Screen Voltage	250 V	—
Maximum Plate Dissipation	25 W	—
Maximum Screen Dissipation	3 W	—
Maximum Cathode Current	135 mA	—
RFOutputPower	82 W	TwoTubes; ClassC; 600 V plate
MaximumPlateVoltageICAS	750 V	ICAS

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	7000 μ S	Typical