

ELECTRONIC TUBE REFERENCE

7457

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
BEAMPOWER

Beam-power transmitting tube documented with service-specific frequency, power, operating, and cooling data for professional RF applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 3.2 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
MAXIMUM PLATE VOLTAGE	1000 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	115 W
MAXIMUM CATHODE CURRENT	180 mA
Published ratings/characteristics promoted from supplied datasheet.	

The 7457 is a beam-power transmitting tube. The supplied datasheet was processed for heater or filament data, maximum ratings, operating characteristics, capacitances where published, and service-specific power or frequency data.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

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Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Plate Voltage	1000 V	Ruggedized RF power service
Maximum DC Screen Voltage	300 V	Ruggedized RF power service
Maximum DC Plate Current	180 mA	Ruggedized RF power service
Plate Dissipation	115 W	Ruggedized RF power service
Typical DC Plate Voltage	850 V	Ruggedized RF power service
Maximum-Signal Power Output	140 W	Ruggedized RF power service
Useful Power Output at 1215 MHz	40 W	Ruggedized RF power service

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Mu Factor, Screen to Control Grid	18	Ruggedized RF power service
Grid-No.1 to Plate Capacitance	0.065 pF	Ruggedized RF power service