



ELECTRONIC TUBE REFERENCE

8227

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

RCA 8227 Ceramolox forced-air-cooled ceramic-metal beam power tube for pulsed UHF RF amplification, delivering up to 17 kW peak RF output near 1215 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
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

SECTION 1 Beam Power	
MAXIMUM PLATE VOLTAGE	4000 V
MAXIMUM SCREEN VOLTAGE	1000 V
MAXIMUM PLATE DISSIPATION	125 W
RCA 8227 pulsed RF beam power section. Maximum DC plate 4000 V; maximum peak positive plate pulse 7000 V; screen voltage max 1000 V DC or pulse. Plate average dissipation 125 W. Maximum average screen INPUT 10 W and control-grid INPUT 5 W; these are not necessarily dissipation ratings, so dissipation fields remain unset. Peak plate current 6 A at 5 μs or 4.5 A at 10 μs; average plate current limits 0.05 A at 5 μs or 0.07 A at 10 μs. Typical at 1215 MHz, 5 μs pulses, duty factor 0.005: 4000 V DC plate, 1000 V peak screen pulse, 6 A peak plate, 0.03 A average plate, 0.003 A screen, 0.010 A grid1, 1250 W peak driver, 10 kW peak RF output (93% circuit efficiency). With 7000 V pulsed plate, 17 kW peak RF output (87% efficiency).	

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker