



ELECTRONIC TUBE REFERENCE

CR176

Power - Tetrode (NOT beam) (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
TETRODE

Forced-air-cooled high-power tetrode designed for HF power-amplifier service. Its transmitting construction supports substantial professional radio-frequency output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 64 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
TRANSCONDUCTANCE	0.044 S
MAXIMUM PLATE VOLTAGE	7500 V
MAXIMUM SCREEN VOLTAGE	1500 V
MAXIMUM PLATE DISSIPATION	35000 W
MAXIMUM SCREEN DISSIPATION	200 W
MAXIMUM GRID DISSIPATION	25 W
MAXIMUM CATHODE CURRENT	10 A
<i>Applicable promoted ratings mapped semantically from the printed approximate-data/ratings tables; useful non-promoted operating, capacitance and service data retained in TUBE_SECTION_PARAMETER.</i>	

Forced-air-cooled high-power tetrode for HF power-amplifier service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1955 Marconi

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

1955 MARCONI

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Starting Current Maximum	160 A	—
Frequency Full Rating Maximum	30 MHz	—
Input Capacitance	40 pF	—
Output Capacitance	14 pF	—
Grid1-Anode Capacitance	0.4 pF	—
Typical Plate Voltage	3000 V	—
Typical Screen Voltage	1500 V	—
Typical RF Output Power	25000 W	—