



ELECTRONIC TUBE REFERENCE

BR189

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

High-power forced-air-cooled RF transmitting triode arranged for cathode-driven operation. Its 27 kW plate dissipation and 12 kV rating support major grounded-grid communications and broadcast power stages.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	9 V / 240 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.0275 S
AMPLIFICATION FACTOR	34
MAXIMUM PLATE VOLTAGE	12000 V
MAXIMUM PLATE DISSIPATION	27000 W
MAXIMUM GRID DISSIPATION	1250 W
MAXIMUM CATHODE CURRENT	70 A

R.f. transmitting triode with grid terminals suitable for cathode-drive operation.

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 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	9 V	—
Filament Current	240 A	—
Amplification Factor	34	—
Transconductance	27500 μ S	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Anode Voltage	12000 V	—
Maximum Anode Dissipation	27000 W	—
Maximum Grid Dissipation	1250 W	—
Maximum/Peak Cathode Current	70 A	—
Frequency at Full Ratings	50 MHz	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-Grid Capacitance	51 pF	—
Anode-Cathode Capacitance	1.5 pF	—
Grid-Cathode Capacitance	68 pF	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling	Forced air	—

1971 English Electric Valve

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

1971 ENGLISH ELECTRIC VALVE

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode dissipation BR189	27 kW	BR189
Output power class C telegraphy	30 kW	ClassC