



ELECTRONIC TUBE REFERENCE

BTL63

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

High-transconductance Brown Boveri power triode for high-power RF amplification. Approximately 6 kW plate dissipation and operation to about 100 MHz support tens of kilowatts of Class C transmitter output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 120 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.032 S
MAXIMUM PLATE VOLTAGE	1000 V
MAXIMUM PLATE DISSIPATION	6000 W
<i>Promoted ratings and characteristics audited from General Data and operating tables.</i>	

air-cooled transmitting triode for RF and AF amplification and industrial or broadcast service. The datasheet specifies a directly heated thoriated tungsten cathode and air anode cooling.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1969 Brown Boveri

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

1969 BROWN BOVERI

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	1000 V	—
Maximum plate dissipation	6000 W	—
Maximum plate current	4 A	—
Maximum frequency	100 MHz	—
RF output power, Class C unmodulated	30000 W	ClassC

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	32000 μ S	—