

ELECTRONIC TUBE REFERENCE

BTW1502

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Extremely high-power Brown Boveri transmitting triode for major RF power systems. Very high transconductance, hundreds of kilowatts of dissipation, and 18 kV plate capability support several-hundred-kilowatt Class C output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	20 V / 570 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.175 S
MAXIMUM PLATE VOLTAGE	18000 V
MAXIMUM PLATE DISSIPATION	220000 W
MAXIMUM CATHODE CURRENT	48 A
Promoted ratings and characteristics audited from General Data and operating tables.	

High-power water-cooled transmitting triode for RF and AF amplification and industrial or broadcast service. The datasheet specifies a directly heated thoriated tungsten cathode and water 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	18000 V	—
Maximum plate dissipation	220000 W	—
Maximum plate current	48 A	—
Maximum frequency	30 MHz	—
RF output power, Class C unmodulated	614000 W	ClassC

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	175000 μ S	—

TUBE TINKER

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