



ELECTRONIC TUBE REFERENCE

BTS503

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Vapor-cooled very-high-power transmitting triode for radio-frequency power service.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.1 S
MAXIMUM PLATE VOLTAGE	15000 V
MAXIMUM CATHODE CURRENT	19 A
Promoted ratings and characteristics audited from General Data and operating tables.	

vapour-cooled transmitting triode for RF and AF amplification and industrial or broadcast service. The datasheet specifies a directly heated thoriated tungsten cathode and vapour 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	15000 V	—
Maximum plate current	19 A	—
Maximum frequency	30 MHz	—
RF output power, Class C unmodulated	216000 W	ClassC

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	100000 μ S	—