



ELECTRONIC TUBE REFERENCE

2P2P

Power - Beam Single (NOT sweep) (under 10W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Very-low-power directly heated Russian beam-output tube for battery equipment, producing roughly 75–190 mW from 60–90 V supplies for portable audio-output stages.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	1.2 V / 120 mA	PARALLEL HEATER	1.2 V / 120 mA
HEATING	Direct	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
TRANSCONDUCTANCE	0.0011 S
MAXIMUM PLATE VOLTAGE	90 V
MAXIMUM SCREEN VOLTAGE	90 V
MAXIMUM PLATE DISSIPATION	0.4 W
MAXIMUM CATHODE CURRENT	7 mA
<i>REDO promoted fields populated from published specification/maximum-rating tables where applicable.</i>	

The 2P2P is a directly heated output beam tetrode designed to amplify low-frequency power.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X Russian

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

195X RUSSIAN

Section 1 · Beam Power

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage	60 V	Published operating point
Grid 2 voltage	60 V	Published operating point
Grid 1 voltage	-3.5 V	Published operating point
Anode current	3.5 mA	Published nominal
Grid 2 current	0.8 mA	Published nominal
Transconductance	1.1 mA/V	Published value
Grid 1 inverse current	0.2 uA	Published value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Output power	75 mW	Grid 1 AC 2.5 V RMS; 20 kOhm load
Output power	190 mW	Anode/grid2 90 V; 15 kOhm load