

Quick-heating beam-power tetrode designed for RF amplification, oscillation, and frequency multiplication, suitable for rapid-start transmitting service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	OCTAL 8P	BASE PINS	8
NOMINAL HEATER	1.6 V / 3.2 A	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
TRANSCONDUCTANCE	0.007 S
AMPLIFICATION FACTOR	4.5
MAXIMUM PLATE VOLTAGE	650 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	25 W
MAXIMUM SCREEN DISSIPATION	5 W
MAXIMUM CATHODE CURRENT	160 mA
Promoted where the locked schema directly matches published RF values; frequency/service-specific limits and operating conditions are retained as parameter rows.	

Quick-heating beam-power tetrode for RF amplifier, oscillator, and frequency-multiplier service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Philips Electron Tubes Handbook V4

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

1963 PHILIPS ELECTRON TUBES HANDBOOK V4

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	650 V	RFPowerTube
Maximum screen voltage	250 V	RFPowerTube
Application	Quick-heating beam-power tetrode for RF amplifier, oscillator, and frequency-multiplier service.	
Service category	RF/AF power service as specified in source	RFPowerTube
Heater/filament voltage	1.6 V	RFPowerTube
Heater/filament current	3.2 A	RFPowerTube
Operating frequency	60 MHz	RFPowerAmplifier;Intermitte
Plate voltage	600 V	RFPowerAmplifier;Intermitte
Screen voltage	180 V	RFPowerAmplifier;Intermitte
Control-grid voltage	-71 V	RFPowerAmplifier;Intermitte
Plate current	150 mA	RFPowerAmplifier;Intermitte
Power output	65 W	RFPowerAmplifier;Intermitte
Operating frequency	175 MHz	RFPowerAmplifier;Intermitte
Plate voltage	400 V	RFPowerAmplifier;Intermitte
Power output	35 W	RFPowerAmplifier;Intermitte

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heating method	Direct	RFPowerTube
Device class	BeamPower	RFPowerTube

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	7000 μ S	RFPowerTube
Screen-to-control-grid amplification factor	4.5	RFPowerTube
Cathode heating time to >70% output	0.4 s	QuickHeating

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate capacitance	8.5 pF	RFPowerTube
Control-grid capacitance	13.5 pF	RFPowerTube

1999 Philips E-Z

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

1999 PHILIPS E-Z
Section 1 · Beam Power

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	1.6 V	—
Heater/filament current	3.2 A	—
Transconductance	7000 uS	—
Screen-grid amplification factor	4.5	—
Cathode heating time to >70% output	0.4 sec	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate/anode voltage	650 V	—
Maximum screen-grid voltage	250 V	—
Maximum plate/anode dissipation	25 W	—
Maximum screen-grid dissipation	5 W	—
Operating plate voltage	600 V	ClassC;Telegraphy;60MHz
RF output power	65 W	ClassC;Telegraphy;60MHz
Operating plate voltage	400 V	ClassC;Telegraphy;175MHz
RF output power	35 W	ClassC;Telegraphy;175MHz
Maximum anode input power	90 W	60MHz

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate/anode capacitance	8.5 pF	—
Control-grid capacitance	15.5 pF	—
Plate-grid capacitance	0.24 pF	—