



ELECTRONIC TUBE REFERENCE

8358

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

BEAMPOWER-BEAMPOWER

Fast-warm-up miniature twin beam-power tube designed for push-pull RF power amplification and frequency multiplication at frequencies to approximately 500 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9QR	BASE PINS	9
NOMINAL HEATER	1.9 V / 3.15 A	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

9QR - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	B	G1 – Control Grid	CONNECTED
PIN2	B	G3 – Suppressor Grid	CONNECTED
PIN3	A	G1 – Control Grid	CONNECTED
PIN4	–	F – Filament	CONNECTED
PIN5	–	F – Filament	CONNECTED
PIN6	B	P – Plate (Anode)	CONNECTED
PIN7	A	G2 – Screen Grid	CONNECTED
PIN8	A	P – Plate (Anode)	CONNECTED
PIN9	–	F – Filament	CONNECTED

SECTION RATINGS

SECTION1 Beam Power	
TRANSCONDUCTANCE	0.01 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	7.5 W
MAXIMUM SCREEN DISSIPATION	3.5 W
MAXIMUM CATHODE CURRENT	120 mA
<i>Representative row for two identical beam-power units.</i>	

SECTION2 Beam Power	
TRANSCONDUCTANCE	0.01 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	7.5 W
MAXIMUM SCREEN DISSIPATION	3.5 W
MAXIMUM CATHODE CURRENT	120 mA
<i>Second identical physical beam-power section; added to align rows with SectionCount.</i>	

Miniature twin beam-power tube with directly heated cathode and short warm-up time, for push-pull RF power amplification or frequency multiplication up to 500 MHz.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Matsushita

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

1961 MATSUSHITA

Section 1 · Beam Power

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No. 1 to plate capacitance	0.15 pF	EachUnit
Grid No. 1 input capacitance	8 pF	EachUnit
Plate output capacitance	2 pF	EachUnit

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid 2 to grid 1 mu-factor	30	EachUnit

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical plate voltage at 500 MHz	180 V	ClassC,PushPull
Typical plate current at 500 MHz	50 mA	ClassC,PushPull
Useful power output at 500 MHz	4.5 W	ClassC,PushPull