



ELECTRONIC TUBE REFERENCE

F6003

Power - Pentode (NOT beam) (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
PENTODE

Naturally cooled graphite-anode RF power pentode for telecommunications transmitters, rated to approximately 60 MHz and around 1 kW RF output. Designed for substantial radio-frequency transmitting power.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	10 V / 10 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
TRANSCONDUCTANCE	0.0065 S
MAXIMUM PLATE VOLTAGE	3000 V
MAXIMUM SCREEN VOLTAGE	800 V
MAXIMUM PLATE DISSIPATION	400 W
MAXIMUM SCREEN DISSIPATION	80 W
MAXIMUM CATHODE CURRENT	600 mA
<i>Published promoted ratings/characteristics retained where readable; additional values are in TUBE_SECTION_PARAMETER.</i>	

Naturally cooled graphite-anode RF power pentode for telecommunications transmitters, rated for operation through 60 MHz and about 1 kW RF output.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Compagnie General

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

1958 COMPAGNIE GENERAL

Section 1 · Pentode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Control-grid to screen-grid amplification ratio	6.5 ratio	Ia=175mA;Va=500V
Transconductance	6500 uS	Ia=200mA;Va=600V

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency	60 MHz	—
Maximum plate voltage	2500 V	30<f<60MHz
Maximum plate dissipation	350 W	f>30MHz
Plate voltage	2800 V	ClassC;RFAmplifier;Telegraphy;f=30MHz
Screen-grid voltage	600 V	ClassC;RFAmplifier;Telegraphy;f=30MHz
Plate current	470 mA	ClassC;RFAmplifier;Telegraphy;f=30MHz
Drive power	4.5 W	ClassC;RFAmplifier;Telegraphy;f=30MHz
RF output power	950 W	ClassC;RFAmplifier;Telegraphy;f=30MHz

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.1 pF	—
Input capacitance	24 pF	—
Output capacitance	22 pF	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

