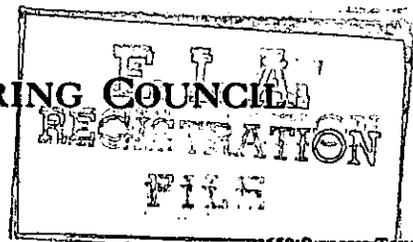


JOINT ELECTRON TUBE ENGINEERING COUNCIL



650 SALMON TOWER  
11 WEST FORTY-SECOND STREET  
NEW YORK 36, N.Y.  
TELEPHONE: LONGACRE 5-3450

Announcement  
of  
Electron Device Type Registration

Release No. 1570

January 16, 1956

The Joint Electron Tube Engineering Council announces the registration of the following tube type designation

5AR4

according to the ratings and characteristics found on the attached data sheets on the application of

Rogers Majestic Electronics Ltd.  
11-19 Brentcliffe Road  
Leaside (Toronto 17) Ontario, Canada

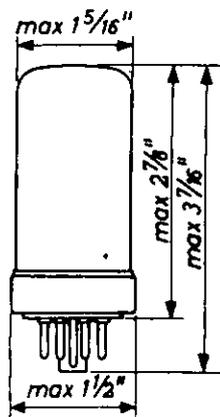
# 5AR4

## DOUBLE ANODE MAINS RECTIFIER

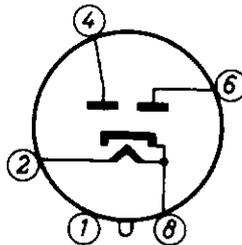
### MECHANICAL DATA

Cathode	Coated unipotential
Base	Octal 5-pin
Bulb	Tubular
Mounting position	Any
RETMA basing designation	5DA

### TUBE OUTLINE



### BOTTOM VIEW OF BASE



### BASE PIN No.

1	Internally connected
2	Heater
4	Plate No.1
6	Plate No.2
8	Heater, cathode

### ELEMENT

## ELECTRICAL DATA

### HEATER DATA

Heater voltage	5 volts
Heater current	1.9 amps

### RATINGS with choke input filter

Peak inverse plate voltage	1500 volts
Peak plate current per plate	750 mamps
DC output current at a transformer voltage of	
2x500 volts, rms	250 mamps
2x550 volts, rms	225 mamps

RATINGS with capacitor-input filter

Peak inverse plate voltage		1500 volts
Peak plate current per plate		750 mamps
Filter input capacitor		60 $\mu$ F
DC output current at a transformer voltage of		
	2x450 volts, rms	250 mamps
	2x500 volts, rms	200 mamps
	2x550 volts, rms	160 mamps
Total effective plate supply resistance per plate at a transformer voltage of		
	2x300 volts, rms min.	50 ohms
	2x350 volts, rms min.	75 ohms
	2x400 volts, rms min.	100 ohms
	2x450 volts, rms min.	125 ohms
	2x500 volts, rms min.	150 ohms
	2x550 volts, rms min.	175 ohms

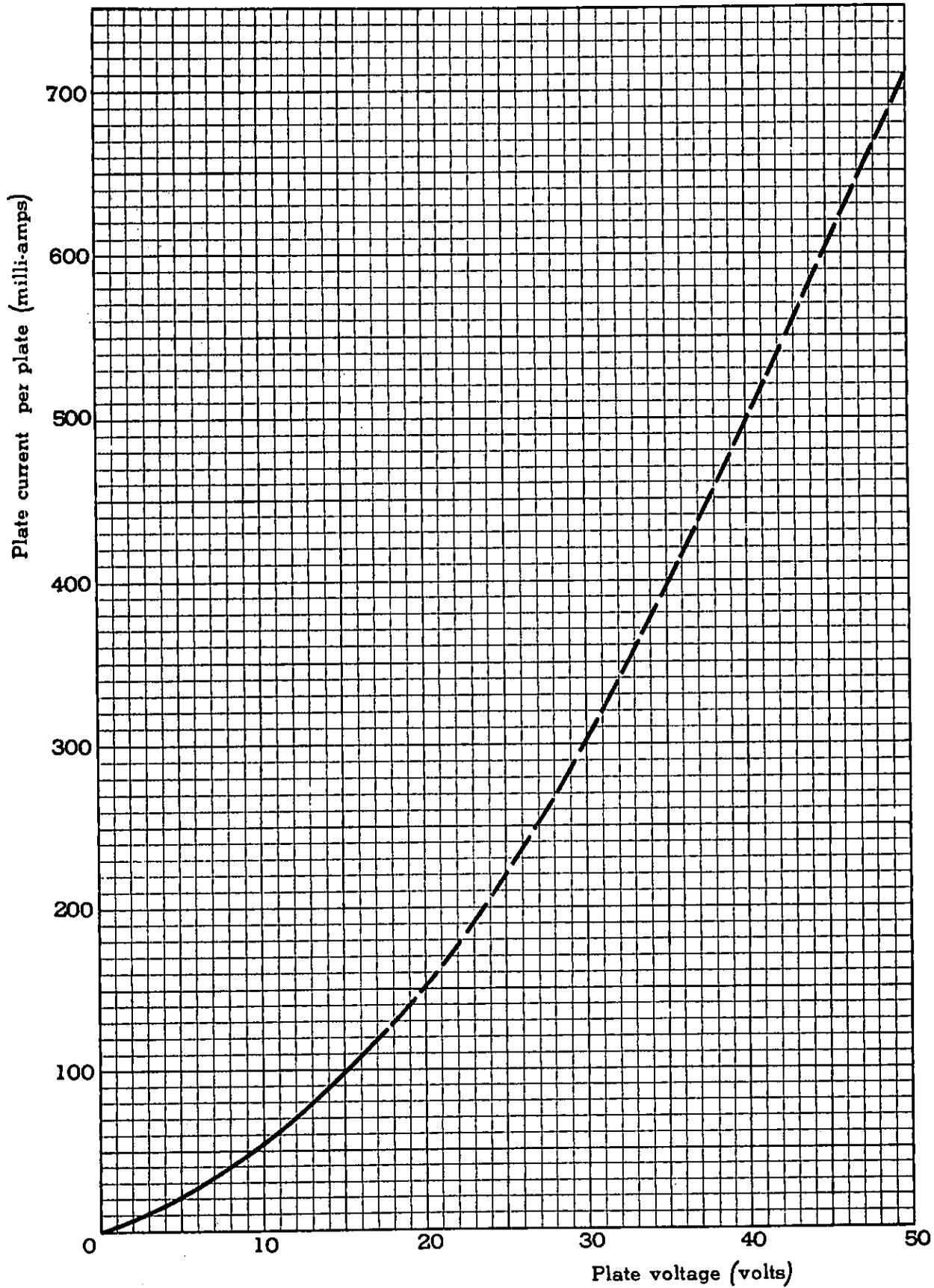
OPERATING CONDITIONS with capacitor-input filter

Transformer voltage	2x300	2x350	2x400 volts, rms
Filter input capacitor	60	60	60 $\mu$ F
Total effective plate supply resistance, per plate	50	75	100 ohms
DC output current	250	250	250 milliamps
DC output voltage at filter input	300	350	400 volts
Transformer voltage	2x450	2x500	2x550 volts, rms
Filter input capacitor	60	60	60 $\mu$ F
Total effective plate supply resistance, per plate	125	150	175 ohms
DC output current	250	200	160 mamps
DC output voltage at filter input	450	530	610 volts

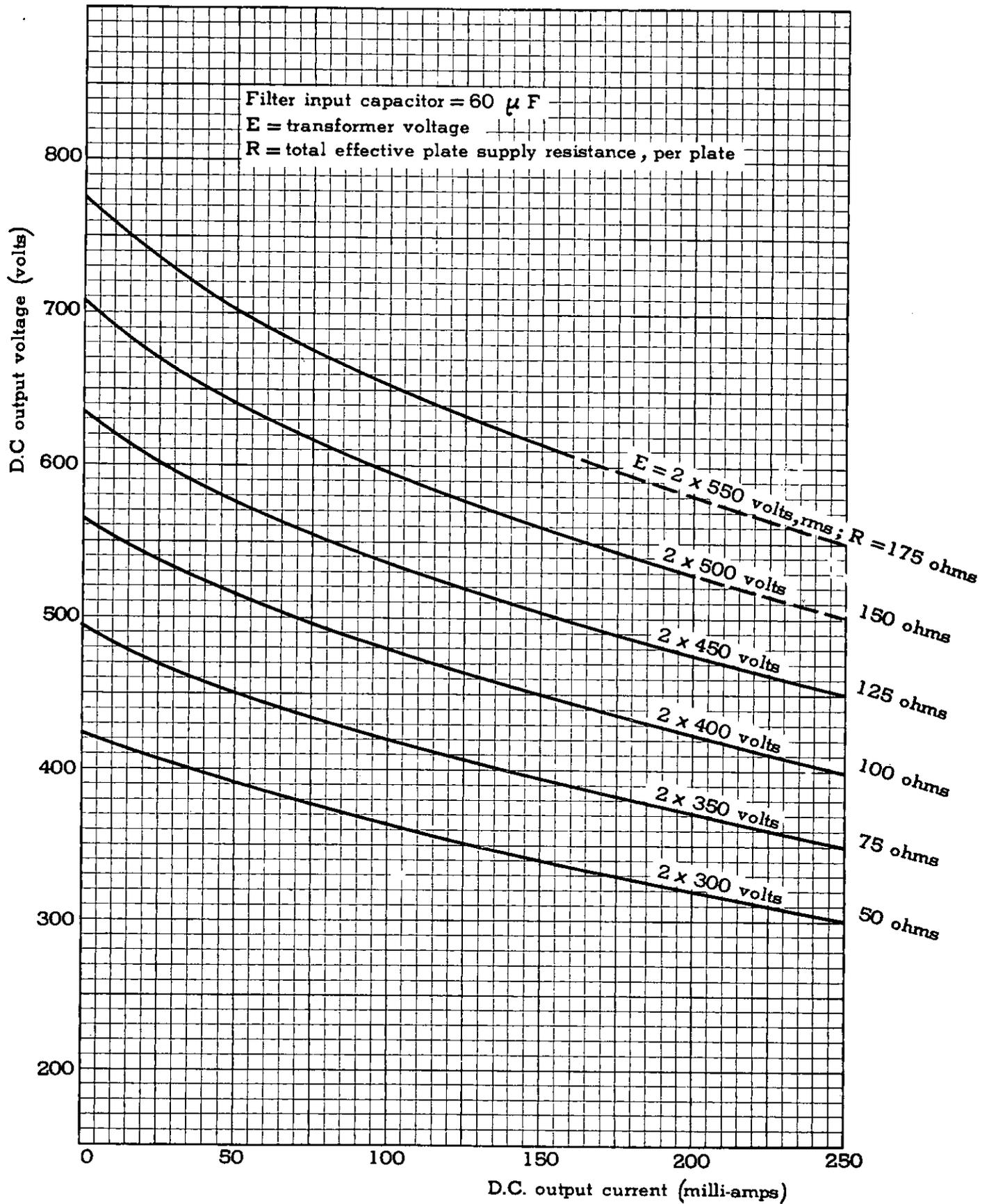
# 5AR4

## OPERATING CONDITIONS with choke-input filter

Transformer voltage	2x300	2x350	2x400 volts,rms
Filter input choke	10	10	10 henries
DC output current	250	250	250 milliamps
DC output voltage at filter input	240	283	326 volts
Transformer voltage	2x450	2x500	2x550 volts,rms
Filter input choke	10	10	10 henries
DC output current	250	250	225 milliamps
DC output voltage at filter input	370	415	460 volts



# 5AR4



# 5AR4

