September 29, 1939

RMA Release # 218

AMPLIFIER

Reservation No. 298 Date: 9/16/39 Registration No. 218 Date: 9/29/39

Type No. 6T6 (GM)

Sponsor: Rogers Radio Tubes Limited, Toronto, Ontario.

Type Classification: High Transconductance R. F. Pentode

Physical Specifications:

Type of Cathode: Unipotential

Pin Connections:

Pin 1	Metal Spray Shield	(S)	Pin 5		
2	Heater	(H)	6		
3	Plate	(P)	7	Heater	(H)
4	Screen Grid	(G_2)	8	Cathode and Suppressor	(KG_3)

Top Cap - Control Grid (G_1)

Basing Designation: 6Z

Type of Base:	Small octal shell
Type of Cap:	Miniature Metal
Type of Bulb:	T9 - Metal Spray
Maximum Diameter	1 9/16"
Maximum Overall Length	4 1/4"
Maximum Seated Height (Including top cap)	3 11/16"

Mounting Position for Operation: Vertical

Direct Interelectrode Capacitances:

Grid to Plate	(CGP)	0.02	uuf. (max.)
Input	(G1 to all other electrodes)	8.	uuf.
Output	(P to all other electrodes)	12.	uuf.

VOLTAGE AMPLIFIER

Class A

Ratings:

Heater or Filament Voltage (ac or dc)	6.3	volts
Heater or Filament Current	0.45	amps
Maximum Plate Voltage	300	volts
Maximum Screen Voltage	200	volts
Maximum Plate Dissipation	4	watts
Maximum Screen Dissipation	0.4	watts
Minimum Grid Bias Voltage	-1	volts

Typical Operation and Characteristics:

Plate Voltage	250	volts
Screen Voltage	100	volts
Grid Voltage	-1	volts
Suppressor Voltage *	0	volts
Plate Resistance	1	megohm
Transconductance	5500	umhos
Grid Bias **	-7.5	volts
Plate Current	10	ma
Screen Current	2	ma

* Suppressor grid (G_3) is internally connected to cathode (K)

** For G_m = 5 umhos.