

ROGERS MAJESTIC ELECTRONICS LIMITED
Electronic Tube Division
11-19 Brentcliffe Road
Leaside (Toronto 17) Ontario

Ref # 1115

TECHNICAL DATA FOR RTMA TYPE 6218.

1. Description

The 6218 is a reliable miniature tube in glass construction designed to withstand severe shock. It is a special modulated beam deflection tube for pulse generation up to a frequency of 375 Mc. Although the 6218 was designed primarily for military purpose, it may also be used in a number of other applications where pulse generation is required.

2. Mechanical Data

<u>Envelope</u>	T6 $\frac{1}{2}$ max. length 2.75" max. diameter 0.88"
<u>Base</u>	9 pin, E9-1
<u>Top Cap</u>	skirted miniature C1-2
<u>Base Connections</u>	9CG (see diagram)
<u>Shock Rating</u>	500 G
<u>Mounting Position</u>	any, but must not be subjected to magnetic fields.

3. Electrical Ratings

Cathode Coating unipotential

Operating Conditions

heater voltage	E _h	6.3 volts
heater current	I _h	150 mA
plate voltage	E _b	100 volts
grid 1 voltage	E _{c1}	-6 volts
grid 2 voltage	E _{c2}	70 volts
grid 3 voltage	E _{c3}	250 volts
deflection plate voltage	E _D	120 volts

Interelectrode Capacities (no external shield)

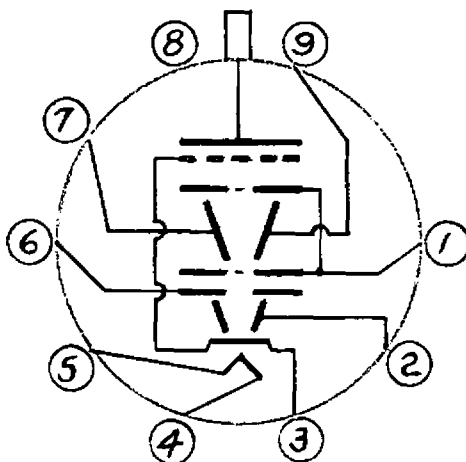
C1 - all	3.0 uuf
D1 - all	3.0 uuf
D2 - all	3.5 uuf
D1 - G1	.075 uuf
D2 - G1	.075 uuf
G1 - G2	0.60 uuf
D1;D2;G2 - P	.025 uuf

Absolute Maximum Ratings

cathode current	5.5 mA
deflection plate one	170 volts
deflection plate two	170 volts
peak voltage, deflection plate one	800 volts
peak voltage, deflection plate two	500 volts
plate voltage	330 volts
heater to cathode voltage	50 volts

4. Base Connections

Basing designation for bottom view 9CG



Pin No.	1	2	3	4	5	6	7	8	9	top cap
Connection.	G3	G1	K G4	H	H	G2	D2	-	D1	P

P	collector plate
D1, D2	deflection plates
G1	beam plates, internally connected
G2	first split anode, internally connected
G3	second and third split anode, internally connected
G4	suppressor grid, internally connected to cathode
K	cathode
H	heater