

# D U M O N T

## Type K-1211 Photo-Multiplier Tube

### TENTATIVE

The Du Mont Type K-1211 is a 3/4 inch diameter, 6 stage, photo-multiplier tube of the end-window type.

#### GENERAL CHARACTERISTICS

	<u>Min.</u>	<u>Avg.</u>	<u>Max.</u>
<u>Electrical</u>			
Spectral response		S4	
Cathode sensitivity		50	uA/lumen
Cathode radiant sensitivity at maximum response		0.056	uA/uW
Wavelength at maximum response	3500	4000	4500 Angstroms
Anode sensitivity : 150 V/stage (Note 1)		150	ma/lumen
Gain : 150 V/stage (Note 1)		3000	
Anode dark current at 150 V/stage		1.0	uA
<u>Mechanical</u>			
Window dimension	1/2		in. diam.
Seated height		2 3/16 ± 1/16 in.	
Tube diameter		3/4 ± 1/32 in.	
Overall length			2 3/4 in.
Base Type	Du Mont 9 pin miniature		
Mounting position	Any		

#### MAXIMUM RATINGS

Peak cathode current (Note 2)	10 uA
Average anode current (Note 3)	1 ma
Peak anode current	5 ma
Average anode dissipation (Note 3)	0.5 W
Peak anode dissipation	2.0 W
Supply voltage between anode and cathode (DC or peak AC)	1300 V
Ambient temperature	75° C

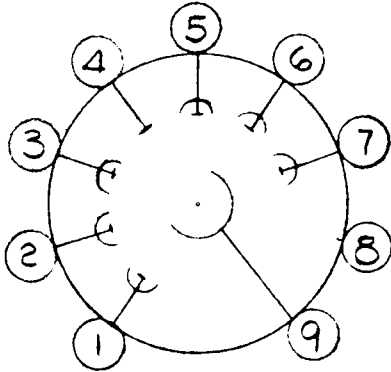
#### N O T E S

1. Voltage between photo-cathode and dynode no. 1 is 300 volts.
2. The cathode current given here is that current at which the response of the cathode current ceases to be a linear function of the light intensity because of cathode resistance. In general, the cathode current must be kept well below this value in order to satisfy the maximum ratings on the anode current.
3. Averaged over a 30 second interval maximum.

# DUMONT

## PHOTO-MULTIPLIER TUBE TYPE K 12 11

9-PIN MINATURE STEM



TENTATIVE

DIRECTION OF LIGHT: INTO END OF BULB

BOTTOM VIEW

- 1 DYNODE # 1
- 2 DYNODE # 3
- 3 DYNODE # 5
- 4 ANODE NO 1
- 5 DYNODE # 6
- 6 DYNODE # 4
- 7 DYNODE # 2
- 8 INTERNAL CONNECTION
- 9 CATHODE

150 VOLTS - DYNODES TO CATHODE  
SENSITIVITY - CLEAR — — —  $\mu\text{a./L} 51/3$  — %

CATHODE TO D<sub>1</sub> - 212 VOLTS: ANODE  
106 VOLTS MULTIPLIER GAIN AT 150  
VOLTS / STAGE GAIN. — — —

TUBE NO. — — —

