N.U. ENGINEERING NEWS RELEASE
ELECTRONIC COMPONENTS
Prepared by Commercial Engineering Division

N.U. 5ALP1 N.U. 5ALP4 N.U. 5ALP7 N.U. 5ALP11

DAYLIGHT VIEWING CATHODE RAY TUBES

The National Union Daylight Viewing tubes were developed to provide a five inch cathode-ray tube of minimum length and maximum beam current. These tubes have a standard 9 pin miniature base, use magnetic focus and deflection, and produce beam currents of 0.5 to 1.0 ma. under normal operation. These features together with low heater power consumption (1.26 watts) and maximum overall length of 7.5 inches provide a rugged as well as reliable cathode-ray tube that can be designed into airborne or small compact equipments or can be used where high ambient light levels are encountered.

MAXIMUM RATINGS

Heater voltage (ac or dc)	6.3 v.
Anode voltage	10 Kv.
Grid voltage (negative)	250 v.
Grid voltage (positive)	0 v.
Grid resistor	1.5 meg.

TYPICAL OPERATING CONDITIONS

Heater voltage	6.3 v.
heater current	200 ma.
Cathode current	500 μa
Grid cutoff voltage	-50 v.
Anode voltage	8 Kv.

INTERELECTRODE CAPACITANCES

G1 to all other elements	4.0 μμf (max.)
K to all other elements	5.5 μμf (max.)

PHYSICAL SPECIFICATIONS

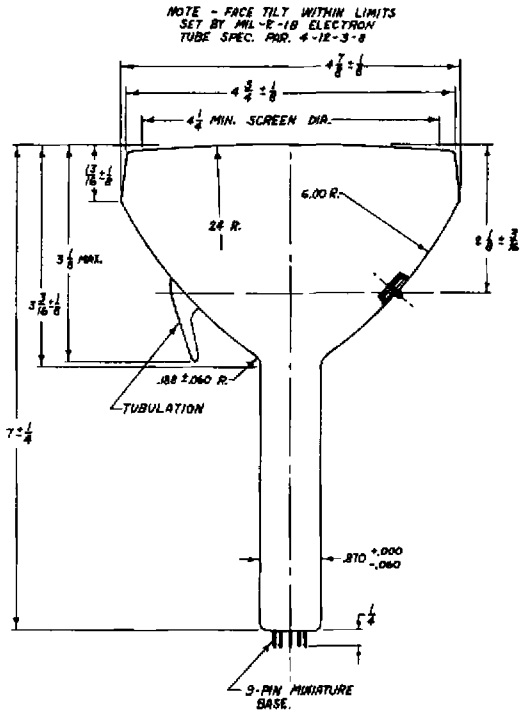
Overall length	7.5 in.
Useful screen diameter	4.25 in.
Maximum bulb diameter	5.0 in.
Tube neck diameter	0.87 in.
Cap (anode)	snap on terminal
Base	9-pin miniature
Alignment, anode button and base	between pins 1 and 9

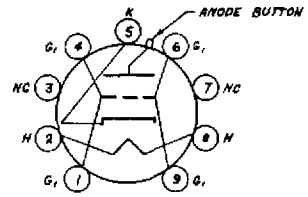
BASE PIN CONNECTIONS

Pin 1	Grid 1	Pin 6	Grid 1
Pin 2	Heater	Pin 7	N.C.
Pin 3	N.C.	Pin 8	Heater
Pin 4	Grid 1	Pin 9	Grid 1
Pin 5	Cathode		

PHOSPHOR

	FLUORESCENCE	PHOSPHORESCENCE	PERSISTENCE
5ALP1	Green	--	Medium
5ALP4	White	--	Medium
5ALP7	Blue	Yellow	Long
5ALP11	Blue	--	Short





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