

31C14

CATHODE RAY TUBE

Indirectly heated-for Radio D.F. Compass

GENERAL

The 31C14 is a magnetically focused and deflected cathode ray tube. The tube is aluminised, has a 6" diameter flat face, and is available with a screen type T1 which gives a green trace of medium persistence. It has an internal compass scale uniformly graduated and its face is treated to reduce specular reflection.

RATING

Heater Voltage	V_{h}	6-3	٧
Heater Current	lh"		
Maximum Anode Voltage	Va(max)		kΥ
Minimum Anode Voltage	Va(min)	7.5	kΥ
Maximum Heater/Cathode Voltage	` '		
d.c. (heater negative)	$V_{h-k(max)}$	150	V

^{* 10} kV is a design centre rating. The absolute rating of 12.5 kV maximum must not be exceeded.

INTER-ELECTRODE CAPACITANCES

Grid/All other electrodes	cg-all	4.7	ρF
Cathode/All other electrodes	Ck-all	5⋅3	ρF

These capacitances include an AEI wafer-type duodecal holder.

TYPICAL OPERATION

Anode Voltage	V_a	9.5	kΥ
Grid Bias Voltage for cut-off of 140mm focused line	٧g	-43 to -93	٧
Average Peak to Peak Modulating Voltage for Modulation up to 150µA		30	٧
Maximum Peak to Peak Modulating Voltage for Modulation of limit Cathode Ray Tube up to 150μΑ		35	٧

A resistance should be inserted in the anode circuit in order to limit the discharge current to 100mA (max), in the event of a flash-over inside the tube.



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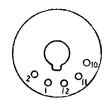
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DIMENSIONS

Maximum Overall Length	458 mm
Maximum Face Diameter	160 mm
Maximum Neck Diameter	35 mm
Approximate Net Weight	2½ lb.
Approximate Packed Weight	16¼ lb.

CAP—Cavity (CT8)

BASE—B12A (5 Pin)



Viewed from free end of pins

CONNECTIONS

Pin 1	Heater	h
Pin 2	Grid	g
Pin 3	No Pin	NP
Pin 4	No Pin	NP
Pin 5	No Pin	NP
Pin 6	No Pin	NP
Pin 7	No Pin	NP
Pin 8	No Pin	NP
Pin 9	No Pin	NP
Pin 10	No Connection	NC
Pin 11	Cathode	k
Pin 12	Heater	h
Сар	Anode	а