

GENERAL

The 31C12 is an electrostatically focused and magnetically deflected cathode-ray tube intended for use in Radio DF Compass equipment. The tube is aluminised, has a 6" diameter flat face, and is available with a "T2" screen which gives a blue-green trace of long persistence.

RATINGS

Heater voltage	V_h	6.3	V
Heater current	I_h	0.6	A
Maximum first and third anode voltage	$V_{a1,a3(max)}$	14*	kV
Minimum first and third anode voltage	$V_{a1,a3(min)}$	10	kV
Maximum second anode voltage	$V_{a2(max)}$	± 700	V
Maximum heater/cathode voltage, d.c. (heater negative)	$V_{h-k(max)}$	180	V
Maximum peak heater/cathode voltage, d.c. (heater negative)	$V_{h-k(pk)max}$	400 $\dagger\dagger$	V

* 14kV is a design centre rating, the absolute rating of 15.5kV must not be exceeded.

\dagger Absolute rating.

$\dagger\dagger$ During a warming-up period not exceeding 1 minute.

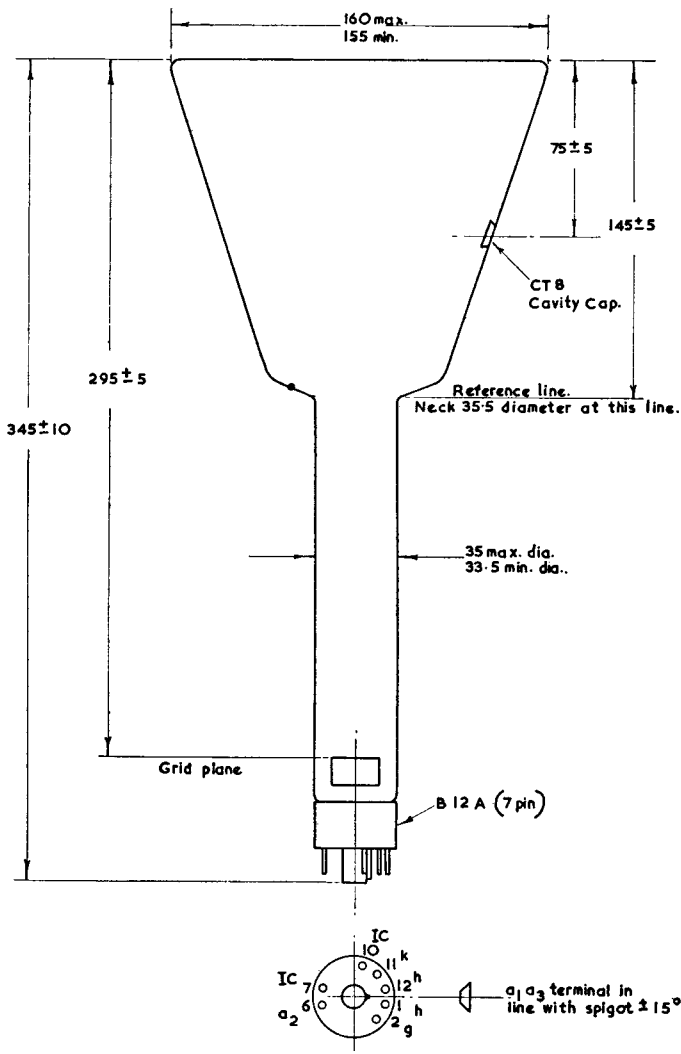
INTER-ELECTRODE CAPACITANCES

Grid/All other electrodes	C_{g-all}	5.5	pF
Cathode/All other electrodes	C_{k-all}	6.0	pF

These capacitances include an AEI duodecal holder type CRT92/7.

TYPICAL OPERATION

First and third anode voltage	$V_{a1,a3}$	12	kV
Second anode voltage for focus (range)	V_{a2}	-100 to +300	V
Grid bias voltage for cut-off of raster	V_g	-30 to -72	V
Maximum peak to peak modulating voltage for modulation of limit cathode-ray tube up to 50 μ A		25	V



All dimensions in millimetres.
Not to be scaled.