

A secondary emission type of picture signal generator. The tube is electrostatically focused and magnetically deflected. The maximum vertical definition is about 800 lines.

BASE CONNECTIONS

Base: Octal

1. NC	5. g
2. a1	6. k
3. a2	7. h
4. NC	8. h

Side contact (a3): CT8

The target plate contact is threaded OBA.

TARGET PLATES

A range of specialised and popular target plates is available, e.g. test card C. Photographs of these can be supplied on request. Any target plate outside the range may be obtained to special order.

HEATER

V_h	4	V
I_h	1.2 (max)	A

RATINGS (Design Centre)

	Max.	Min.	
$*V_t$	6.8	2.8	kV
V_{a3}	7	3	kV
$V_{a3}-V_t$	200	50	V
V_{a2}	1.4	—	kV
V_{a1}	1.4	1.0	kV
$\dagger-V_g$	200	0	V
V_{h-k}	150	—	V
R_{g-k}	2	—	M Ω
I_b	250	—	μ A

$*V_t$ = target plate voltage (negative relative to a3).

\dagger The d.c. value of the modulator voltage must never become positive with respect to cathode.

CAPACITANCES

ck-all: 10pF

cg-all: 16pF

TYPICAL OPERATION

V_t	3.7	kV
V_{a3}	3.8	kV
V_{a2} (for focus)	646	V
V_{a1}	1.25	kV
$-V_g$ (for cut-off)	46	V
R_L	1—5	$k\Omega$
I_b	5	μA
i_{sig} (pk-pk)	$I_b/4 - I_b/2$	μA

Note: The external graphite coating should be earthed.

CHARACTERISTICS

V_{a2} (for focus)	140—200	V per kV V_{a3}
$-V_g$ (for cut-off)	32—64	V per kV V_{a1}
$^*r_{h-k}$ (min)	1.5	$M\Omega$
r_{g-k} (min)	10	$M\Omega$

*With heater $\pm 125V$ to cathode.

SOCKET

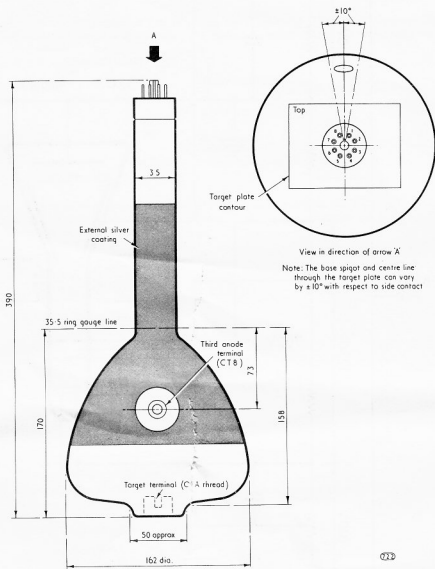
The socket should have sufficient freedom of movement to accommodate the tube overall length and base orientation tolerances.

Suitable octal socket and CT8 side contact connectors are available from Carr Fastener Co. Ltd., Stapleford, Nottingham.

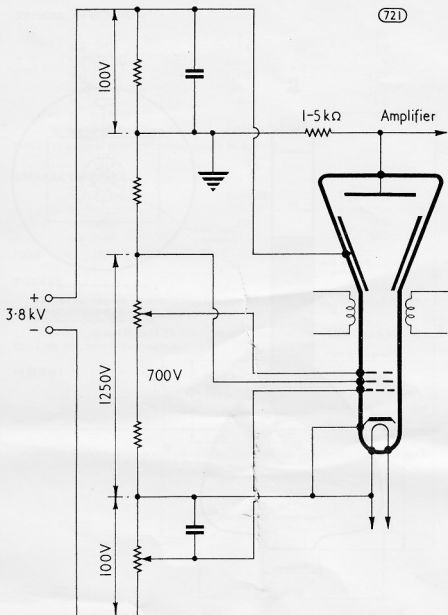
WEIGHT

1lb. 13oz. (0.82kg)

Provision of circuit information in this publication does not imply a right to use any invention which may be involved and which is the subject of patents by whomsoever owned.



All dimensions are in millimetres and are maximum unless otherwise stated.



Typical arrangement for power supply, potential dividing network.