

EXTERNAL CONDUCTIVE COATING

Types MW 22-14 and MW 22-18 have an external conductive coating designated M which must be earthed. The capacitance C_{a2-M} may be used to provide smoothing for the EHT supply.

Types MW 22-14C and MW 22-17 have no external conductive coating

MW22-14
MW22-14C
MW22-17
MW22-18
(contd.)

FLUORESCENT COLOUR

White

FOCUSING AND DEFLECTION Magnetic

With the centre of the deflector coils 204 mm from the centre of the screen, the deflection sensitivity at $V_{a2}=7$ KV is $0.08 \times L$ mm/gauss.

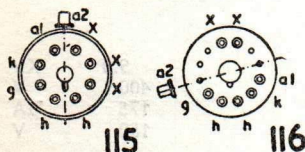
Where L =length of the electron path through the field of the deflector coil in mm.

TYPICAL OPERATING CONDITIONS

V_{a2}	7.0	KV
V_{a1}	200	V
* V_{k1} for cut-off	-40	V
Focusing ampere-turns	650 approx.	
*In no circumstances must the grid be allowed to become positive with respect to the cathode.		

LIMITING VALUES

V_{a2} max.	9.0	KV
V_{a1} max.	400	V
I_{a2} max.	100	μ A
V_{h-k} max.	150	V



DIMENSIONS : $L=376$ mm $D=230$ mm

BASES :

MW 22-14	MW 22-17
MW 22-14C	MW 22-18
B8G (115)	B12A (116)

Television picture tubes with 12 in. diameter screens

MW31-14C
MW31-17
MW31-18

HEATER

V_h 6.3 V I_h 0.3 A. Suitable for series operation, D.C. or A.C.

Note.—The heater voltage must not exceed 8.5 when the supply is switched on. If the heater is connected in series with the heaters of other valves a current limiting device should be included in the circuit to ensure that this voltage is not exceeded.



4 VALVE DATA PREFERRED TYPES J OSCILLOSCOPE AND PICTURE TUBES

MW31-14C CAPACITANCES

MW 31-17

MW 31-18

(contd.)

C_{g-all}	10	$\mu\mu F$
C_{k-all}	10	$\mu\mu F$
C_{a2-M}	2,000	$\mu\mu F$

EXTERNAL CONDUCTIVE COATING

Type MW 31-18 has an external conductive coating designated M, which must be earthed. The capacitance C_{a2-M} may be used to provide smoothing for the E.H.T. supply.

Types MW 31-14C and MW 31-17 have no external conductive coating

FLUORESCENT COLOUR

White

FOCUSING AND DEFLECTION Magnetic

With the centre of the deflector coils 292 mm from the centre of the screen the deflection sensitivity at $V_{a2}=7$ KV is $0.08 \times L$ mm/gauss.

Where L =length in mm of the electron path through the field of the deflector coil.

TYPICAL OPERATING CONDITIONS

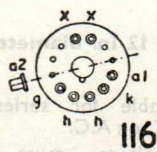
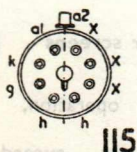
V_{a2}	7.0	KV
V_{a1}	200	V
* V_{g1} for cut-off	-40	V
Focusing ampere-turns	650 approx.	

*In no circumstances may the grid be allowed to become positive with respect to cathode.

LIMITING VALUES

V_{a2} max.	9.0	KV
V_{a1} max.	400	V
I_{a2} max.	175	μA
V_{h-k} max.	150	V

DIMENSIONS : $L=465$ mm $D=307$ mm



BASES :

MW 31-14C
B8G (115)

MW 31-17
MW31-18
B12A (116)

