

# RADAR TUBE

# MB22-75 MF22-75

Direct viewing radar tube with 9-in. diameter flat-faced metal-backed screen primarily intended for use in P.P.I. applications.

The only difference between the MB22-75 and the MF22-75 is in the screen properties (see appropriate section of data).

This data should be read in conjunction with GENERAL OPERATIONAL RECOMMENDATIONS—CATHODE RAY TUBES included in this section of the handbook.

**HEATER** Indirectly heated  
Suitable for series or parallel operation

$V_h$	6.3	V
$I_h$	300	mA

## CAPACITANCES

$C_g$ -all	<10	pF
$C_k$ -all	<10	pF

## SCREEN

Metal-backed			
Max. picture diameter		200	mm
	MB22-75	MF22-75	
Fluorescent colour	blue	orange—with orange afterglow	
Persistence	short	long	

## FOCUSING

Magnetic

## DEFLECTION

Double magnetic

## MOUNTING POSITION

Any, except vertical with screen downwards and the axis of the tube making an angle of less than 20° with the vertical.

## TYPICAL OPERATING CONDITIONS

$V_a$	15	kV
$V_g$ for cut-off	-60 to -140	V

†Recommended distance of centre of magnetic length of focus unit from reference line 117 mm

†See appropriate section of 'General operational recommendations—cathode ray tubes'.

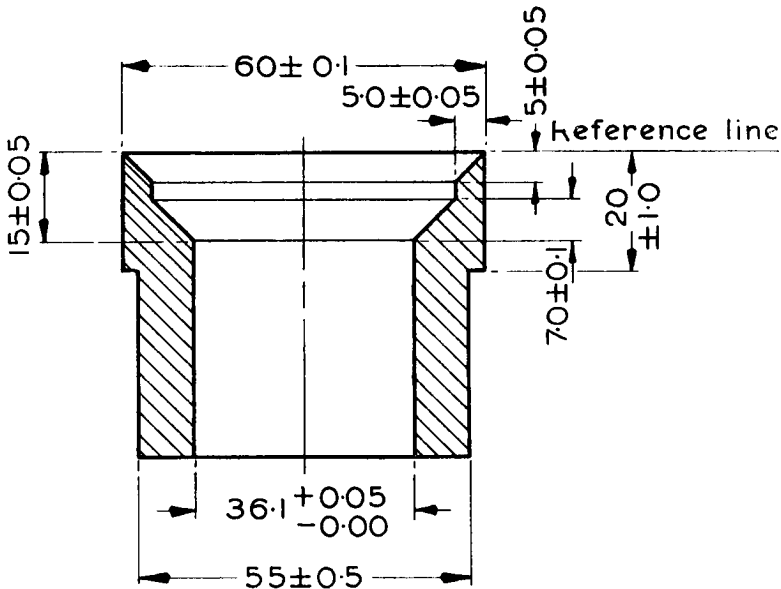
# MB22-75 MF22-75

RADAR TUBE

## LIMITING VALUES (absolute ratings)

$V_{ii}$ max.	15.5	kV
$V_a$ min.	9.0	kV
$-V_g$ max.	200	V
$*I_k$ max.	150	$\mu$ A
$V_{h-k}$ max.	150	V
$R_{g-k}$ max.	1.5	M $\Omega$
$R_{h-k}$ max.	1.0	M $\Omega$

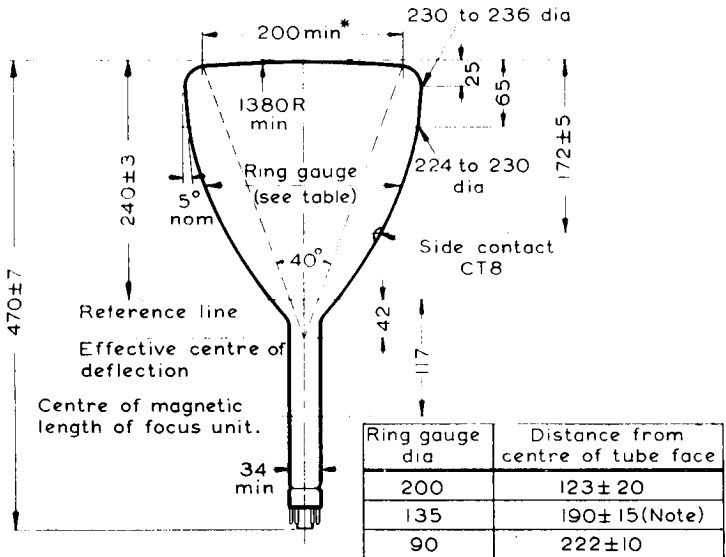
\*The MF22-75 has a magnesium fluoride screen which is liable to burn if a stationary or slowly moving spot is used even with low values of mean beam current.



All dimensions in mm

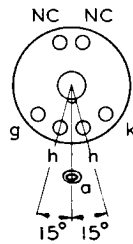
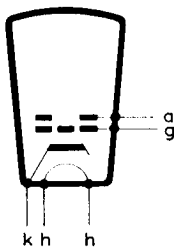
5614

REFERENCE LINE GAUGE



\*Diameter of useful screen area.

Note: The 135 dia gauge may have a chord of 30mm cut from the gauge face to a depth of 10mm to avoid the anode side contact.



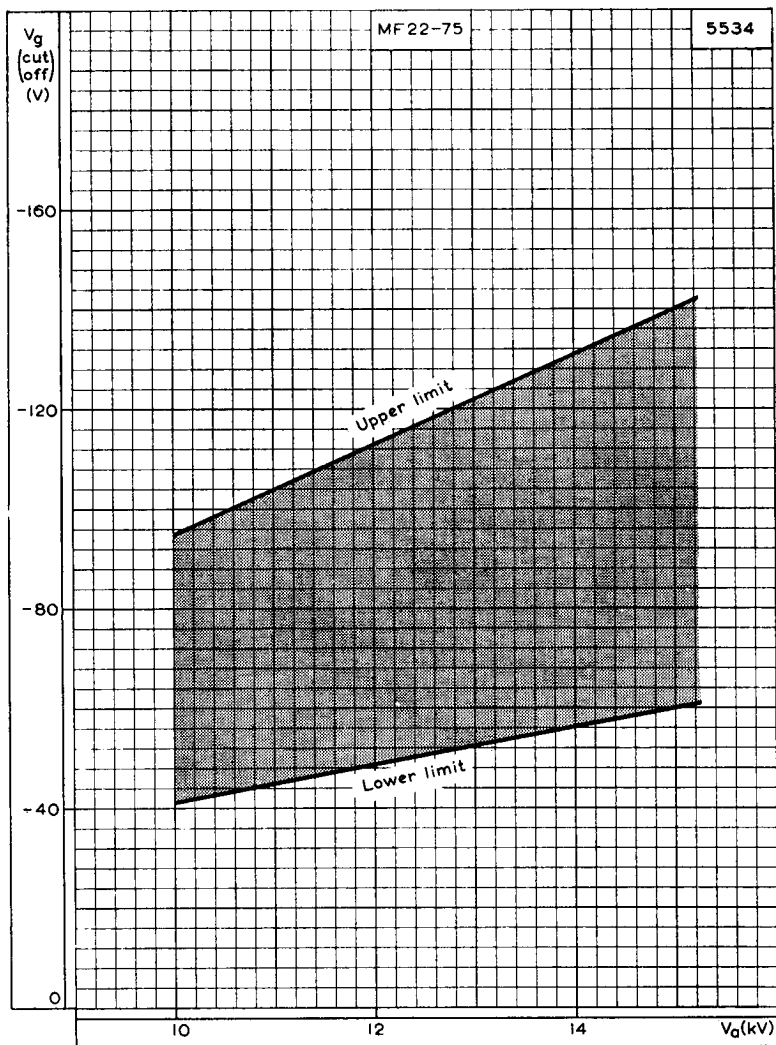
B12A Base

5610

All dimensions in mm

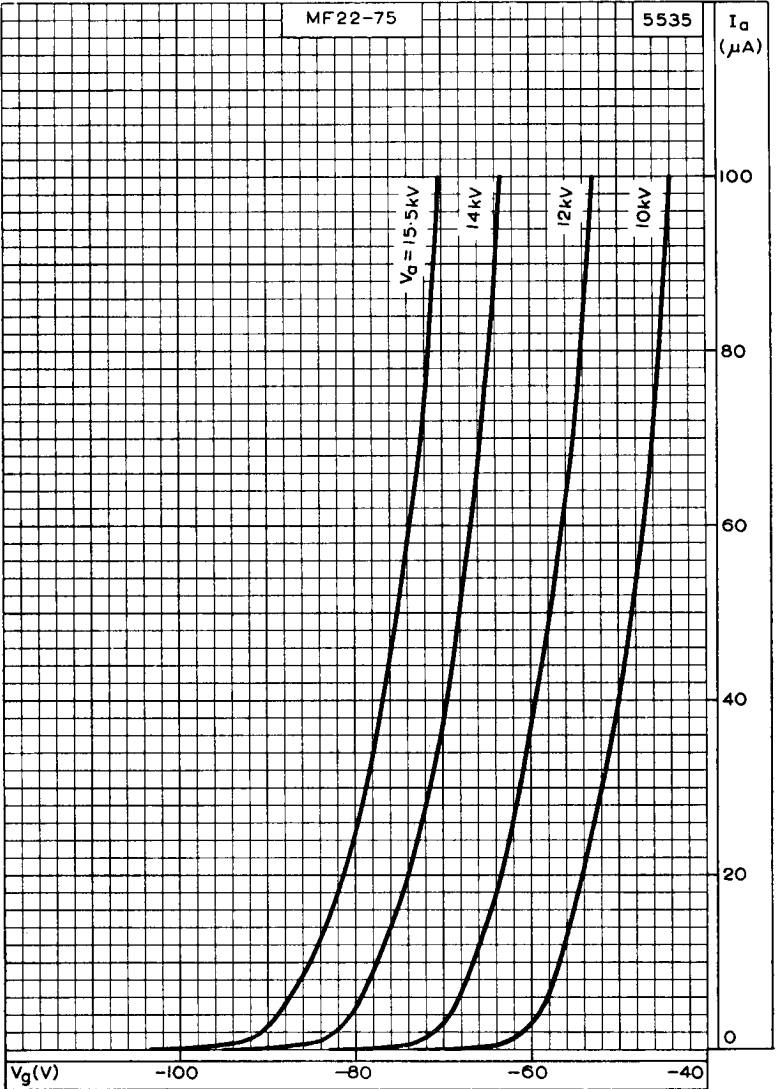
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LIMITS OF GRID CUT-OFF VOLTAGE FOR FINAL ANODE VOLTAGES FROM 10 TO 15kV





FINAL ANODE CURRENT PLOTTED AGAINST GRID VOLTAGE

