

20MP4 KINESCOPE



RECTANGULAR GLASS TYPE
LOW-VOLTAGE FOCUS MAGNETIC DEFLECTION

Heater, for Unipotential Cathode: Voltage 6.3	DATA
Voltage. 6.3 ac or dc volts Current. 0.6 amp Direct Interelectrode Capacitances: Grid No.1 to All Other Electrodes. 6 Grid No.1 to All Other Electrodes. 5 Faceplate Spherical 5500 min. Filterglass Light Transmission (Approx.) 66% Phosphor (For Curves, see front of this Section). P4—Sulfide Type Fluorescence. White Phosphorescence. White Persistence. Short Focusing Method. Electrostatic Deflection Method. Magnetic Deflection Angles (Approx.): Diagonal 700 Horizontal 660 Vertical 500 Ion-Trap Gun Requires External, Single-Field Magnet Tube Dimensions: Overall Length 21-3/4" ± 3/8" Greatest Diagonal 20-3/32" ± 3/16" Greatest Height 18-11/16" ± 3/16" Greatest Height 19-14/4" Greatest Heig	General:
Current. Direct Interelectrode Capacitances: Grid No.1 to All Other Electrodes. 6 Grid No.1 to All Other Electrodes. 5 External Conductive Coating to Ultor 5 External Conductive Coating to Ultor 6 Faceplate, Spherical 500 min. 445 Faceplate, Spherical 500 min. 445 Filterglass Light Transmission (Approx.) 66% Phosphor (For Curves, see front of this Section). P4—Sulfide Type Fluorescence 4 Phosphorescence 5 Phosphorescence 6 Phosphorescence 7 Persistence 7 Focusing Method 7 Diagonal 700 Horizontal 660 Vertical 8 Vertical 8 Ion—Trap Gun Requires External, Single—Field Magnet Tube Dimensions: Overall Length 21—3/4" ± 3/8" Greatest Diagonal 20—3/32" ± 3/16" Greatest Width 18—11/16" ± 3/16" Screen Dimensions: Greatest Width 18—11/16" ± 3/16" Screen Dimensions: Greatest Height 14—15/16" ± 3/16" Greatest Height 15-14" Diagonal 16—Field No.1 Pin 6—Grid No.2 Pin 11—Reater Pin 2—Grid No.1 Pin 6—Grid No.4 Pin 10—Grid No.2 Pin 11—Cathode Pin 12—Heater 15-16" Weight (Aoprox.) 15-10 BOTTOM VIEW 15-16 Maximum Ratings, Design—Center Values: 16000 max. volts In the 20MP4, grid No.5 which has the ultor function, grid No.3, and collector are connected together within the tube and are conveniently referred to collectively a values. 15-16 In the 20MP4, grid No.5 which has the ultor function, grid No.3, and collector are connected together within the tube and are conveniently referred to collectively a values. 15-16 In the 20MP4, grid No.5 which has the ultor function, grid No.3, and collector are connected together within the tube and are conveniently referred to collectively a values. 15-16 In the 20MP4, grid No.5 which has the ultor function, grid No.3, and collector are connected together within the tube and are conveniently referred to collectively a values. 15-16 In the 20MP4, grid No.5 which has the ultor function, grid No.3, and collector are connected together within the tube and are conveniently referred to collectively a values. 15-16 In the 20MP4 in	
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Deflection Angles (Approx.): Diagonal	Focusing Method Electrostati
Diagonal	Deflection Method
Diagonal	Deflection Angles (Approx.):
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Vertical	Horizontal 66
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Mounting Position	
Cap	
Base	
Pin 1 - Heater Pin 2 - Grid No.1 Pin 6 - Grid No.2 Pin 11 - Cathode Pin 12 - Heater Pin 12 - Heater Pin 12 - Heater Pin 13 - Heater Pin 14 - Cathode Pin 15 - Heater Pin 15 - Heater Pin 16 - Grid No.2 Pin 17 - Cathode Pin 18 - Cathode Pin 19 - Center Values: Place	
Pin 1 - Heater Pin 2 - Grid No.1 Pin 6 - Grid No.4 Pin 10 - Grid No.2 Pin 11 - Cathode Pin 12 - Heater Maximum Ratings, Design-Center Values: ULTOR® VOLTAGE In the 20MP4, grid No.5 which has the ultor function, grid No.3, and collector are connected together within the tube and are conveniently referred to collectively as ultor. The ultor in a cathoder may tube	
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Pin 10 - Grid No. 2 Pin 11 - Cathode Pin 12 - Heater Maximum Ratings, Design-Center Values: ULTOR® VOLTAGE In the 20MP4, grid No. 5 which has the ultor function, grid No. 3, and collector are connected together within the tube and are conveniently referred to collectively as ultor. The viltor in a cathode-ray tube.	/
Pin 11 - Cathode Pin 12 - Heater Maximum Ratings, Design-Center Values: ULTOR® VOLTAGE	3
Pin 12 - Heater Coating Maximum Ratings, Design-Center Values: ULTOR® VOLTAGE	
Maximum Ratings, Design-Center Values: ULTOR® VOLTAGE	
ULTOR® VOLTAGE	Pin 12 - Heater Coating
ULTOR® VOLTAGE	
In the 20MPs, grid No.5 which has the ultor function, grid No.3, and collector are connected together within the tube and are conveniently referred to collectively as "ultor." The "ultor" in a cathode-ray tube	
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collector are connected together within the tube and are conveniently referred to collectively as "ultor." The "ultor" in a cathode-ray tube is the electrode, or the electrode in combination with one or more additional electrodes connected within the tube to it, to which is applied the highest devoltage for accelerating the electrons in the	In the 20MP4, grid No. 5 which has the ultor function, grid No. 3, an
is the electrode, or the electrode in combination with one or more additional electrodes connected within the tube to it, to which is applied the highest dc voltage for accelerating the electrons in the	collector are connected together within the tube and are conveniently
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Same prior to its defloction	ditional electrodes connected within the tube to it, to which i
beam prior to its deriection.	beam prior to its deflection.

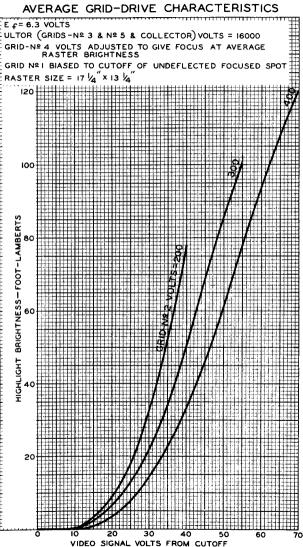




GRID-No.4 VOLTAGE:			
Positive value		1000 max.	volts
Negative value*		500 max.	volts
GRID-No.2 VOLTAGE		500 max.	volts
GRID-No.1 VOLTAGE:		• • • • • • • • • • • • • • • • • • • •	
Negative bias value		125 max.	volts
Positive bias value		0 max.	volts
Positive peak value		2 max.	volts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect t			
During equipment warm-up per			
not exceeding 15 second		410 max.	volts
After equipment warm-up peri		180 max.	volts
Heater positive with respect t	o cathode.	180 max.	volts
Equipment Design Ranges:			
For any ultor voltage (Eu) bet	ween 14000*	and 16000	volts
and grid-No.2 voltage (Ec.)	between 150	and 500 vo	lts
Grid-No.4 Voltage for Focus			
with Ultor Current of			
100 μamp	-0.4% to +	2.2% of E _u	voits
Grid-No.1 Voltage for Visual			
Extinction of Undeflected	44% - 05	¬w - € F	14
Focused Spot	11% to 25.		volts
Grid-No.4 Current Grid-No.2 Current	25 t 15 t		<i>µ</i> атр <i>µ</i> атр
Field Strenathof Sinale-Field		3 113	μαιπρ
Ion-Trap Magnet (Approx.).	$1/\frac{E_u}{1}$	x 45	gausses
Field Strength of Adjustable	V 14000		
Centering Magnet	0 t	8 0	gausses
Examples of Use of Design Ranges:			
For ultor voltage of	14000	16000	volts
and grid-No.2 voltage of	300	300	volts
Grid-No.4 Voltage for Focus	3	,	
with Ultor Current of			
	55 to +300	-65 to +350) volts
	-33 to -77	-33 to -77	volts
Ion-Trap Magnet			
(Rated Strength)	45	50 9	jausses
Maximum Circuit Values:			
Grid-No.1-Circuit Resistance		1.5 max. r	negohms
*			1
Brilliance and definition decrease general, the ultor voltage should n	with decreasing ot be less that	ig uitor volta in 14000 volts	ge. In
+ For visual extinction of undeflecte			
This value has been specified to ta ac voltage is provided for dynamic	ke care of th	e condition w	here an
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For x-ray shielding cons X-RAY PRECAUTIONS FOR			
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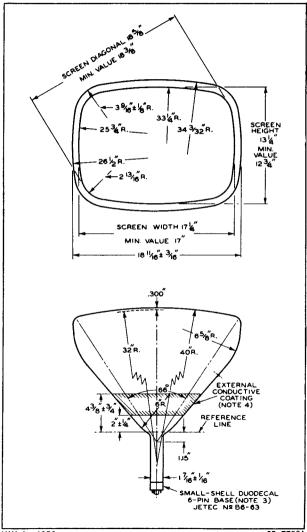


COMPE



30 MP 4





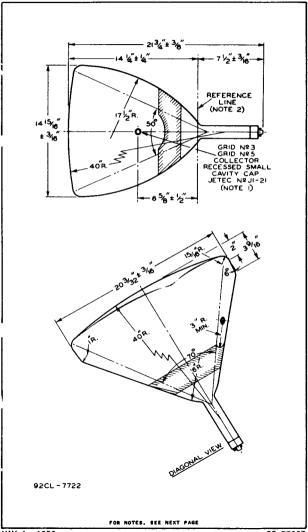
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TUBE DEPARTMENT

CE-7722A











- NOTE 1: THE PLANE THROUGH THE TUBE AXIS AND PIN NO. 6 MAY VARY FROM THE PLANE THROUGH THE TUBE AXIS AND CAP BY ANGULAR TOLERENCE (MEASURED ABOUT THE TUBE AXIS) OF ± 30°. CAP IS ON SAME SIDE AS PIN NO.6.
- NOTE 2: WITH TUBE NECK INSERTED THROUGH FLARED END OF REFERENCE-LINE GAUGE JETEC NO. 110 (SHOWN AT FRONT OF THIS SECTION) AND WITH TUBE SEATED IN GAUGE, THE REFER-ENCE LINE IS DETERMINED BY THE INTERSECTION OF THE PLANE CC! OF THE GAUGE WITH THE GLASS FUNNEL.
- NOTE 3: SOCKET FORTHIS BASE SHOULD NOT BERIGIDLY MOUNTED; IT SHOULD HAVE FLEXIBLE LEADS AND BE ALLOWED TO MOVE FREELY. BOTTOM CIRCUMFERENCE OF BASE SHELL WILL FALL WITHIN A CIRCLE CONCENTRIC WITH BULB AXIS AND HAVING A DIAMETER OF 3".
- NOTE 4: EXTERNAL CONDUCTIVE COATING MUST BE GROUNDED.



LOARD A

