---- TUNS-SOL --

CATHODE RAY

THE 24ADP4 IS A DIRECT VIEW PICTURE TUBE DESIGNED FOR TELEVISION APPLI-CATIONS. ITS FEATURES INCLUDE:

> GRAY FILTER FACEPLATE MAGNETIC FOCUS AND DEFLECTION RECTANGULAR GLASS CONSTRUCTION

ALUMINIZED SCREEN UNIPOTENTIAL CATHODE EXTERNAL CONDUCTIVE COATING 21 7/16" X 16 7/8" RASTER SIZE EXTERNAL SINGLE FIELD ION TRAP

ELECTRICAL DATA

FOCUSING METHOD		MAGNETIC
DEFLECTING METHOD		MAGNETIC
DEFLECTION ANGLE (APPROX.)		
HORIZONTAL	85	DEGREES
D! AGONAL	90	DEGREES
DIRECT INTERELECTRODE CAPACITANCES (APPROX.):		
CATHODE TO ALL OTHER ELECTRODES	5	μμ f
GRID #1 TO ALL OTHER ELECTRODES	6	μμ f
MAXIMUM EXTERNAL CONDUCTIVE COATING TO ANODE	2500	μμf
MINIMUM EXTERNAL CONDUCTIVE COATING TO ANODE	2000	μμf

OPTICAL DATA

PHOSPHOR NUMBER	SULFIDE TYPE	P-4
FLUORESCENT COLOR		WH!TE
PHOSPHORESCENT COLOR		WHITE
PERSISTENCE	SHORT TO MEDIUM	
FACEPLATE TRANSMISSION AT CENTER (APPROX.):	75	PERCENT

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYST	TEM	
HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	0.6 ±5%	AMP.
MAXIMUM DC ANODE VOLTAGE	24 200	VOLTS
MAXIMUM DC GRID #2 VOLTAGE	660	VOLTS
MAXIMUM GRID #1 VOLTAGE:		
DC NEGATIVE-BIAS VALUE	155	VOLTS
DC POSITIVE-BIAS VALUE	0	VOLTS
POSITIVE-PEAK VALUE	2	VOLTS
MAXIMUM DC PEAK HEATER-CATHODE VOLTAGE:		
HEATER NEGATIVE WITH RESPECT TO CATHODE		
DURING WARM-UP PERIOD NOT TO EXCEED 15 SECONDS	450	VOLTS
AFTER EQUIPMENT WARM-UP PERIOD	200	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE	200	VOLTS
MAXIMUM GRID #1 CIRCUIT RESISTANCE	1.5	MEGOHMS
HEATER WARM-UP TIME (APPROX.)*	11.0	SECONDS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

DC ANODE VOLTAGE	18 000	VOLTS.
DC GRID #2 VOLTAGE	300	VOLTS
DC GRID #1 VOLTAGE A -28	T o −72	VOLTS
DC FOCUSING COIL CURRENT (APPROX.)	25 ±15%	MA.
DC ION TRAP MAGNET STANDARD COIL #117 (APPROX.)	32	MA.
DC ION TRAP MAGNET RATED STRENGTH	36	GAUSSES

AVISUAL EXTINCTION OF FOCUSED RASTER.

CONTINUED ON FOLLOWING PAGE

^{*}HEATER WARM-UP TIME ISTHE TIME REQUIRED FOR THE VOLTAGE ACROSS THE HEATER TERMINALS TO INCREASE TO 5.0 VOLTS IN THE JETEC TEST CIRCUIT, WITH E=25 VOLTS AND SERIES R=31.5 OHMS.

24ADP4

TUMS-SOL

CONTINUED FROM PRECEDING PAGE

MECHANICAL DATA

MEDIARIDAE DATA		
OVERALL LENGTH	21 1/8 ± 3/8	INCHES
GREATEST DIMENSIONS OF BULB:	2, 2	
DIAGONAL	24 ± 1/8	INCHES
WIDTH	22 11/16 ± 1/8	INCHES
HEIGHT	18 7/16 ± 1/8	INCHES
MIN. USEFUL SCREEN DIMENSIONS:	10 1/20 = 1/0	
DIAGONAL	22 11/16	INCHES
WIDTH	21 7/16	INCHES
HEIGHT	18 7/16	INCHES
BULB CONTACT	RECESSED SMALL CAVITY CAP	J4~21
BASE	SMALL SHELL DUODECAL 5 PIN	B5→57
BASING		12N
BULB CONTACT ALIGNMENT		

J1-21 CONTACT ALIGNS WITH PIN POSITION #6 ± 30 DEGREES

PIN CONNECTIONS

BOTTOM VIEW



PIN 12 - HEATER ANODE CAP: GRID NO.3