

## 5527 ICONOSCOPE

ELECTROSTATIC FOCUS

ELECTROSTATIC DEFLECTION

General:
Heater, for Unipotential Cathode:  Voltage 6.3 ± 10% ac or dc volts  Current 0.6 amp  Direct Interelectrode Capacitances (Approx.):*  Grid No.1 to All Other Electrodes 7.5 μμf  Signal Electrode to All Other Electrodes  and External Shield 5 μμf
Focusing Method . Electrostatic Deflection Method . Electrostatic Image Size (4 x 3 aspect ratio) . 1.4" Diagonal Overall Length . 9" ± 1/4" Seated Length . 8-1/4" ± 1/4" Maximum Diameter . 2-1/4" Mounting Position
Pin 1 - Heater Pin 2 - Cathode Pin 3 - Grid No.1 Pin 4 - Internal Connection - Do Not Use Pin 5 - Grid No.3 Pin 7 - Deflecting Electrode DJ3 Pin 8 - Deflecting Electrode DJ4 Pin 10 - Deflecting Electrode DJ2 Pin 11 - Deflecting Electrode DJ1 Pin 12 - Internal Connection- Do Not Use Pin 14 - Heater Cap - Signal Electrode
Maximum Ratings, Design-Center Values:
SIGNAL—ELECTRODE VOLTAGE 900 maxvolts GRID—No.4 & GRID—No.2 VOLTAGE 900 maxvolts GRID—No.3 VOLTAGE 450 maxvolts GRID—No.1 VOLTAGE:
Negative bias value 100 max volts Positive bias value 0 max volts PEAK HEATER-CATHODE VOLTAGE: Heater negative with respect
to cathode 125 max volts Heater positive with respect
to cathode 10 max volts AMBIENT TEMPERATURE 40 max
▲ With external shield.





Typical Operation:	
Signal-Electrode Voltage 800	volts
Grid-No.4 & Grid-No.2 Voltage 800	volts
Grid-No.3 Voltage for Focus 125 to 250	volts
Grid-No.1 Voltage Adjust for best	picture
Max. Grid-No.1 Voltage for	
Picture Cutoff75	volts
Max. Deflecting Voltages (Peak-to-Peak)*:	
DJ1 & DJ2 (Vertical) 120	volts
$D_3$ & $D_4$ (Horizontal) 100	volts
Min. Peak-to-Peak Blanking Voltage 30	volts
	$\mu$ amp
Output Resistor (Approx.) 1.0	megohm
Mayimum Circuit Values'	

## Maximum Circuit Values:

	Grid-No.1-Circuit	Resistance .		1	.0	max.		megohm
ļ	Resistance in any	Deflecting-						
		trode Circuit <sup>®</sup>		. 5	.0	max.		meachms

<sup>\*</sup> To scan picture of 1.4" diagonal (4 x 3 aspect ratio).

The SPECTRAL SENSITIVITY CHARACTERISTIC curve for the 5527 is the same as that shown for Type 1850-A.

 $<sup>^{\</sup>square}$  It is recommended that the deflecting-electrode-circuit resistances be approximately equal.



2"± 1/16" I.4" MIN. DIA. -MOSAIC .286"-1/2 R. ± 1/8 SIGNAL ELECTRODE RECESSED SMALL 9" ± 1/2 8" R. ± 1/4 MEDIUM-SHELL DIHEPTAL 12-PIN BASE M +2 1/2"MAX:

¢ OF BULB WILL NOT DEVIATE MORE THAN 20 IN ANY DIRECTION FROM THE PERPENDICULAR ERECTED AT THE CENTER OF BOTTOM OF THE BASE.

THE PLANE THROUGH THE TUBE AXIS AND BASE-PLUG KEY MAY VARY FROM THE PLANE THROUGH THE TUBE AXIS AND SIGNAL ELECTRODE TERMINAL BY AN ANGULAR TOLERANCE (MEASURED ABOUT THE TUBE AXIS) OF 200. SIGNAL ELECTRODE TERMINAL IS ON SAME SIDE AS BASE-PLUG KFY.

DJI AND DJ2 ARE NEARER THE MOSAIC; DJ3 AND DJ4 ARE NEARER THE BASE. WITH DJ! POSITIVE WITH RE-SPECT TO DJ2. THE SPOT IS DEFLECTED TOWARD PIN 5. WITH DJ3 POSITIVE WITH RESPECT TO DJ4, THE SPOT IS DEFLECTED TOWARD PINS I AND 2. WITH DJI AND DJ2 USED FOR VERTICAL DEFLECTION. THE VERTICAL AXIS OF THE SCANNED AREA OF THE MOSAIC IS PARALLEL TO VERTICAL PLANE THROUGH PINS 5 AND 12 WITHIN ±150. THE ANGLE BETWEEN THE SCANNING DIRECTION PRODUCED BY DJ3 AND DJ4 AND THE SCANNING DIRECTION PRODUCED BY DJI AND DJ2 IS 90° ± 3°.

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