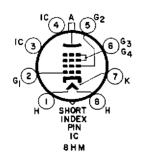
August 25, 1958

SLOW SCAN VIDICON TYPE WL-7290

The WL-7290 is a small size vidicon type camera tube designed for slow speed scanning applications. The extremely low dark current of the WL-7290 permits high-resolution, long-storage-time with higher sensitivity, higher output signal and better signal-to-noise ratio.

The WL-7290 with slow scan is also useful for transmitting high resolution information over conventional audio circuits as the system bandwidth requirements are sharply reduced with slow scan.

ELECTRICAL:		
Cathode Ca	oated Uni	potential
Heater:		
Voltage (ac or dc) 6.3	3 ± 10%	Volts
Current	0.6	Ampere
Direct Interalectrode Capacitance:		
Signal Electrode to all other		
Electrodes	4.5	ouf
Spectral Response from 3000	to 6000 A	ngstroms
Photoconductive Layer:		
Orientation of Tube to Scan	Proper of	ientation
is obtained when the horizontal scan is esse	entially p	araliel to
the plane passing through the tube axis ar	nd short i	ndex pin.
Focusing Method		Magnetic
Deflection Method		Magnetic
MECHANICAL:		
Overall Length	6-1/4	" ± 1/4"
Greatest Diameter	1.125"	± 0.010"
Bulb		T-8
Base Small-Button, 8-P	in (JETE	C E8-11)
Operating Position		Any
Basing		8НМ



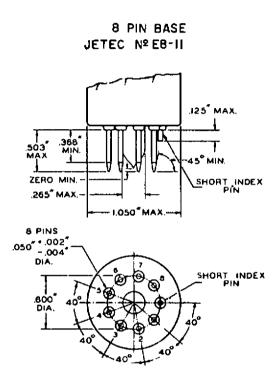
MAXIMUM RATINGS:			
Absolute Maximum System			
Signal-Electrode Voltage	25	max.	Volts
Grid 4 & Grid 3 Voltage	350	max.	Volts
Grid 2 Voltage	350	max.	Volts
Grid 1 Voltage:			
Negative Bias Value	125	max.	Volts
Positive Bias Value	0	max.	Volts
Heater-Cathode Voltage:			
Heater Negative with Respect to Cathode	125	max.	Volts
Heater Positive with Respect to Cathode	10	max.	Volts
Faceplate Temperature	45	mox.	• ¢

TYPICAL OPERATION AND CHARACTERISTICS:		
For Scanned Area of 1/2" x 3/8" 4		
Signal-Electrode Voltage 10 to	25	Volts
Grid 4 (Decelerator) & Grid 3 (Beam		
Focus) Voltage	250	Yolts
Grid 2 (Accelerator) Voltage	300	Volts
Grid 1 Voltage:		
(For Picture Cutoff A)	100	Volts
Dark Current	002	vamp
Average "Gamma" of Transfer Char-		
acteristic for Signal Output Current		
Between 0.0002 and 0.2 vamp	.95	
Min. Peak-to-Peak Blanking Voltage:		
When Applied to Grid 1	40	Volts
When Applied to Cathode	10	Volts
Field Strength at Center of Facusing		
Device	40 Ga	usses
Field Strength of Adjustable		
Alignment Cail 0	ro 4 Ga	usses
Approx. Storage Time:		
450 Line Resolution	40 Se	conds
350 Line Resolution	120 Se	conds

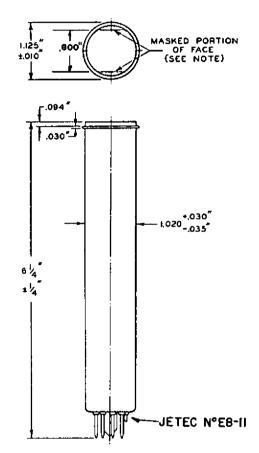
- The quality area of the target extends to the edges of the target.
 The entire target may therefore be scanned with no degradation of picture quality.
- ▲ With no blanking voltage on Grid 1.

from JETEC release #2273, Sept. 8, 1958

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BASE-PIN POSITIONS ARE HELD TO TOLERANCES SUCH THAT PINS WILL FIT A FLAT PLATE GAUGE HAVING THICKNESS OF 1/4" AND 9 HOLES 0.0700" ± 0.0005" SO LOCATED ON A 0.6000" ± 0.0005" DIA, CIRCLE THAT THE DISTANCE ALONG THE CHORD BETWEEN ANY TWO ADJACENT HOLE CENTERS IS 0.2052" ± 0.0005", GAUGE IS PROVIDED WITH CENTER HOLE HAVING DIAMETER OF 0.300" ± 0.001" AND SAME CENTER AS THE PIN CIRCLE,



STRAIGHT SIDES OF MASKED
PORTIONS ARE PARALLEL TO
PLANE PASSING THROUGH TUBE
AXIS AND SHORT INDEX PIN

CE-A 1350