



Excellence in Electronics

TYPE
CK1352P-
CK1352P-A

The CK1352P- is a 16-inch electrostatic focus, magnetic deflection, filtered glass faceplate, metal-shell type cathode ray tube with a long persistence screen suitable for radar applications. The additional of a final "A" designates a metalized screen.

MECHANICAL DATA

BASE: Small Shell Duodecal 7-Pin

TERMINAL CONNECTIONS:

Pin 1 Heater	Pin 10 Grid #2
Pin 2 Grid #1	Pin 11 Cathode
Pin 6 Focus	Pin 12 Heater
Pin 7 No Connection	Cap Collector

ELECTRICAL DATA

GENERAL CHARACTERISTICS:

Phosphor	#7
Fluorescence	Blue
Persistence	Short
Phosphorescence	Greenish-Yellow
Persistence	Long
Focusing Method	Electrostatic
Deflecting Method	Magnetic
Deflection Angle (approx.)	53°

HEATER CHARACTERISTICS:

Heater Voltage	6.3 volts
Heater Current	0.6 ± 10% amps.
Peak Heater-Cathode Voltage:	
Heater Negative with Respect to Cathode	125 volts DC
Heater Positive with Respect to Cathode	125 volts DC

DIRECT INTERELECTRODE CAPACITANCES: (μμfds.) (approx.)

Grid #1 to All Other Electrodes	9.0
Cathode to All Other Electrodes	7.0

DESIGN CENTER MAXIMUM RATINGS:

Collector Voltage	15,000 volts DC
Grid #2 Voltage	700 volts DC
Grid #1 Voltage:	
Negative-Bias Value	180 volts DC
Positive-Bias Value	0 volts DC
Positive-Peak Value	2 volts DC
Peak Grid #1 Drive from Cutoff	65 volts DC
Focus Electrode Voltage	+ 6000 volts DC

CHARACTERISTICS AND TYPICAL OPERATION:

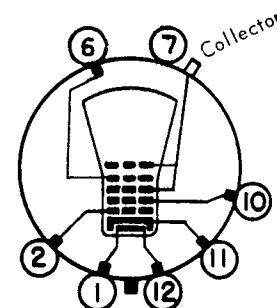
Collector Voltage	12,000 volts DC
Grid #2 Voltage	300 volts DC
Grid #1 Voltage ●	-35 to -75 volts DC
Grid #2 Current	-15 to +15 μa.
Focusing Voltage ■	+ 3300 to + 4000 volts DC
Spot Position (undeflected)	0.5 " radius (concentric to faceplate)
Line Width	0.17 "

MAXIMUM CIRCUIT VALUES:

Grid #1 Circuit Resistance	1.5 meg.
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● Visual extinction of undeflected focused spot.

■ Ib = 25 μAdc (beam current).

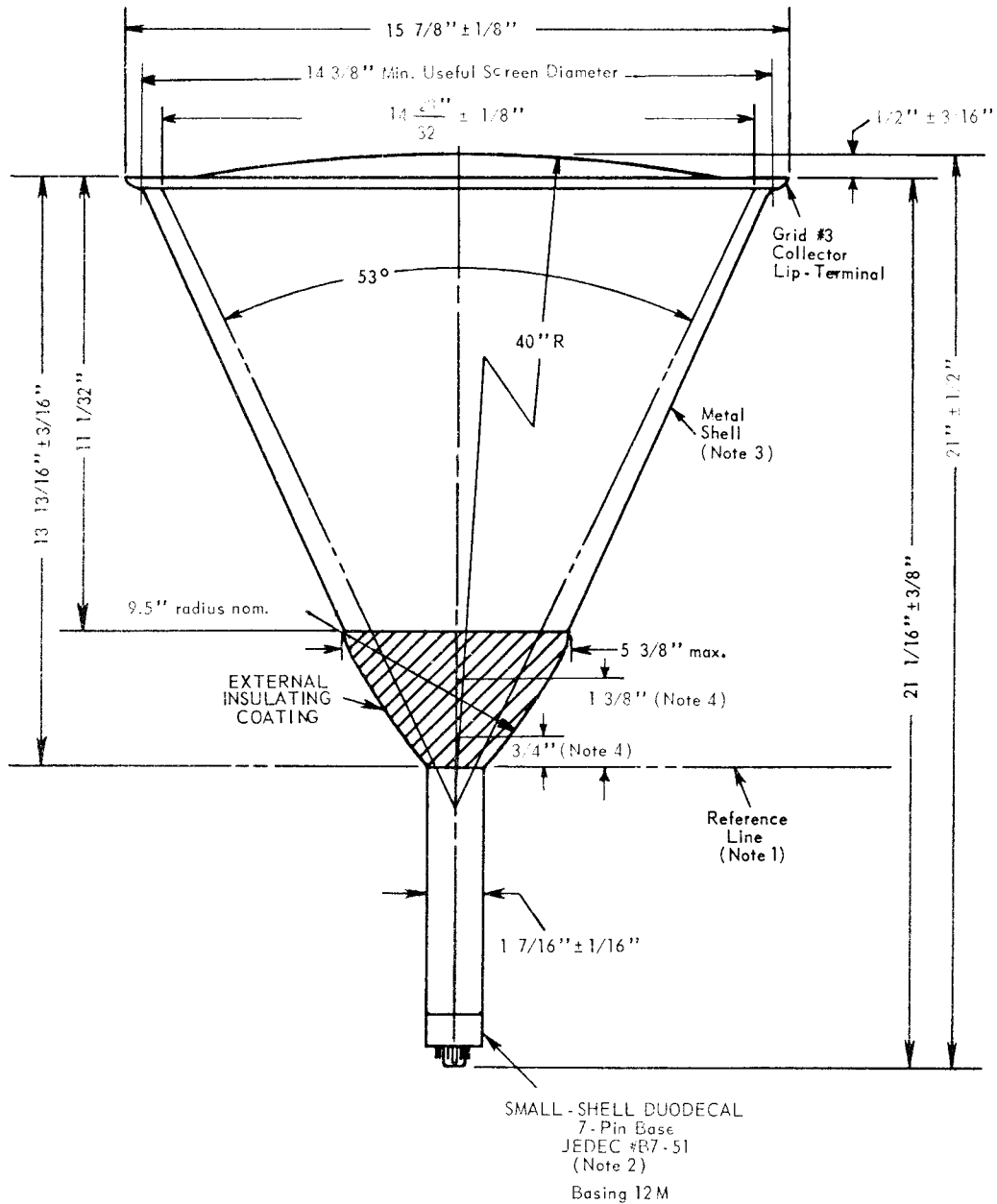


BOTTOM VIEW



CATHODE RAY TUBE

- Note 1: Reference line is determined by position where reference-line gauge (JEDEC #112) 1.500" + 0.003" - 0.000" I.D. and 2" long will rest on funnel.
- Note 2: Socket for this base should not be rigidly mounted; it should have flexible leads and be allowed to move freely. Bottom circumference of base shell will fall within circle concentric with metal-shell axis and having diameter of 3".
- Note 3: Metal shell and glass face operate at high voltage. Any material in contact with the shell or the face must be insulated to withstand the maximum applied collector voltage.
- Note 4: A 3 1/4" diameter ring gauge shall fall within the region indicated. (3/4" to 1 3/8" from reference line).



INDUSTRIAL COMPONENTS DIVISION