TYPE CK1353P– CK1353P–A

Excellence in Electronics

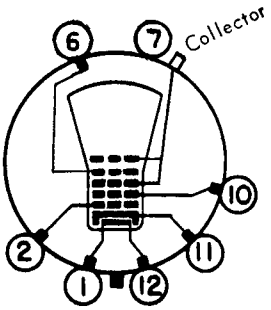
The CK1353P– is a 16 inch electrostatic focus, magnetic deflection, filtered glass faceplate, metal shell type cathode ray tube with a long persistence screen suitable for radar applications. The addition of a final "A" designates a metalized screen.

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



BOTTOM VIEW

ELECTRICAL DATA

GENERAL CHARACTERISTICS:

Phosphor	#7
Fluorescence	Blue
Persistance	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: ($\mu\mu$fds) (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	–500 to +1000 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 ■	–135 to +400 volts DC
Spot Position (undeflected)	0.625 " radius (concentric to faceplate)
Line Width ■	0.018 "

MAXIMUM CIRCUIT VALUES:

Grid #1 Circuit Resistance	1.5 meg.

● *Visual extinction of undeflected focused spot.*

■ *Ib2=25 μa beam (current).*

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ELECTRICAL DATA (Cont'd)

NOTES:

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 rigedly 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 gauge shall fall within the region indicated (3/4" to 1 3/8" from reference line).