

TYPE T536 (T56P_) CATHODE RAY TUBE DATA

Type T536P_ is a 5-inch cathode ray tube with electrostatic focus and deflection designed for use in the Type 536 oscilloscope. The envelope has a flat face and a post accelerator helix.

RATINGS:

MAXIMUM VALUES
(All voltages taken with respect to cathode)

TYPICAL VALUES

Post-Accelerator	6,000 v DC	4,000 v
Isolation Shield & Lower Helix (Geom)	2,100 v DC	1025 to 1150 v
Accelerator	6 watts input 2,000 v DC	900 to 1150 v
Ratio Post-Accelerator Voltage to Accelerator Voltage	3 Maximum	
Grid No. 3 (Focus)	800 v DC	110 to 325 v
Grid No. 1		
Negative Bias	200 v DC	-50 to -80 v (cutoff)
Positive Bias	0 v DC	
Positive Peak	2 v	
Circuit Resistance	1.5 MΩ	
Heater to Cathode Voltage	±125 v DC	
Deflection Factors		
D1 and D2		10 to 12.5 v/cm
D3 and D4		10 to 12.5 v/cm

Post-Accelerator Helix Resistance is 200-600 Megohms

Heater is 6.3 volts at 0.6 amperes ±10%

DIRECT INTERELECTRODE CAPACITANCE, Approximate:

Cathode to all other electrodes	4.9 μf	D1 to all other electrodes except D2	3.6 μf
Grid No. 1 to all other electrodes	7.4	D2	" D1 3.2
D1 to D2	2.7	D3	" D4 2.7
D3 to D4	1.5	D4	" D3 3.6

SPECIFICATIONS:

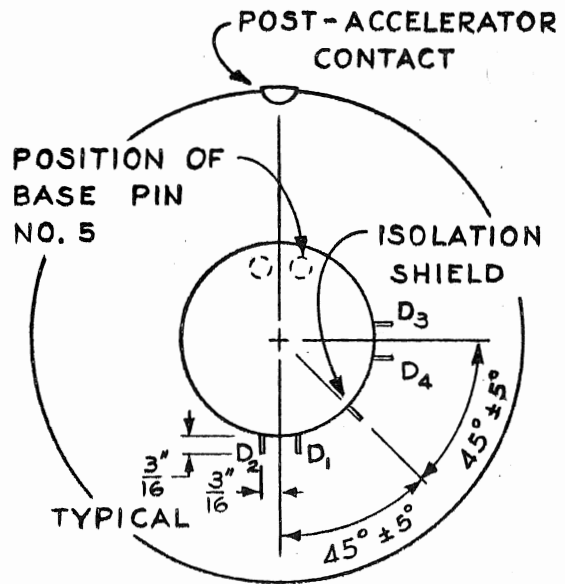
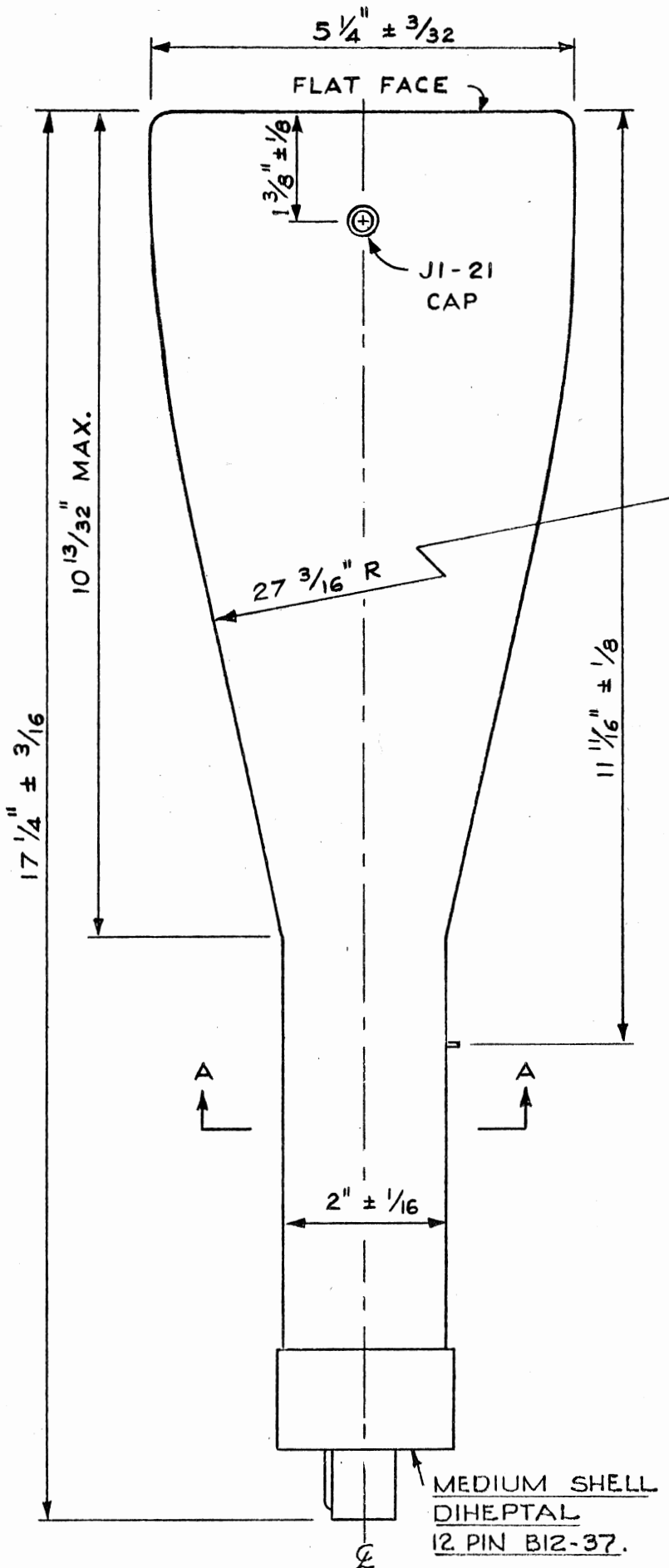
Useful Scan: D1-D2, 8 cm minimum; D3-D4, 8 cm minimum.

Pattern Distortion: Distortion of useful scan, 1% maximum. Angle between D1-D2 and D3-D4 traces is 90° ±1°. With an 8 by 8 cm rectangular raster centered on the face of the tube, the raster edges will not deviate from straight parallel lines by more than 0.8 mm total.

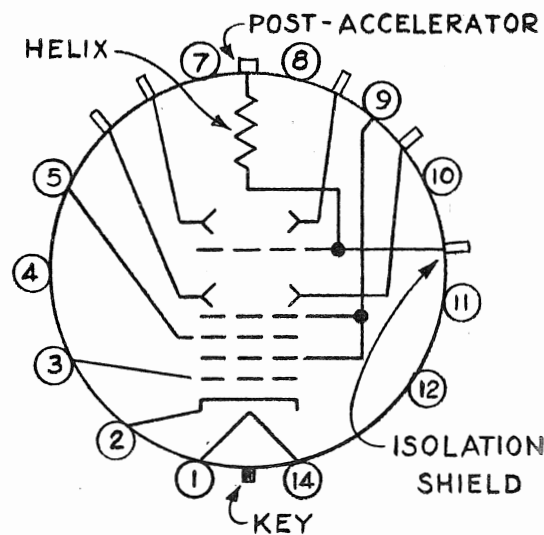
The J1-21 contact aligns with the D1-D2 trace within ±10°. Pin No. 1 aligns with the D3-D4 trace within ±10°.

A positive voltage on D1 deflects the beam toward Pin No. 4 and 5. A positive voltage on D3 or D4 deflects the beam toward Pin No. 1

T536_ C.R.T.
TENTATIVE DATA



SECTION A-A



BOTTOM VIEW OF BASE

PIN NO.	ELEMENT
1	HEATER
2	CATHODE
3	GRID NO.1
4	NC
5	FOCUSING ELECTRODE
7	NC
8	NC
9	ACCELERATOR
10	NC
11	NC
12	NC
14	HEATER

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