

CRT GEOMETRY CORRECTION

155-0152-01 M152B

DESCRIPTION

The M152 is designed to appropriately predistort "X" and "Y" signals before they are applied to the electromagnetic deflection coils of a CRT, in such a way as to eliminate "pincushion" distortion. It also provides a signal to correct for spot de-focusing that occurs away from the screen's center. The circuit may be used in CRT's of various deflection angles (up to 90°) by adjusting the values of two external resistors.

Mathematically, the following signals are available as outputs:

$$|x|, |y|, \sqrt{1 + (K_1 x)^2 + (K_2 y)^2},$$

$$K_3 = \sqrt{1 + (K_1 X)^2 + (K_2 Y)^2},$$

$$\frac{x}{\sqrt{1 + (\kappa_1 x)^2 + (\kappa_2 y)^2}},$$

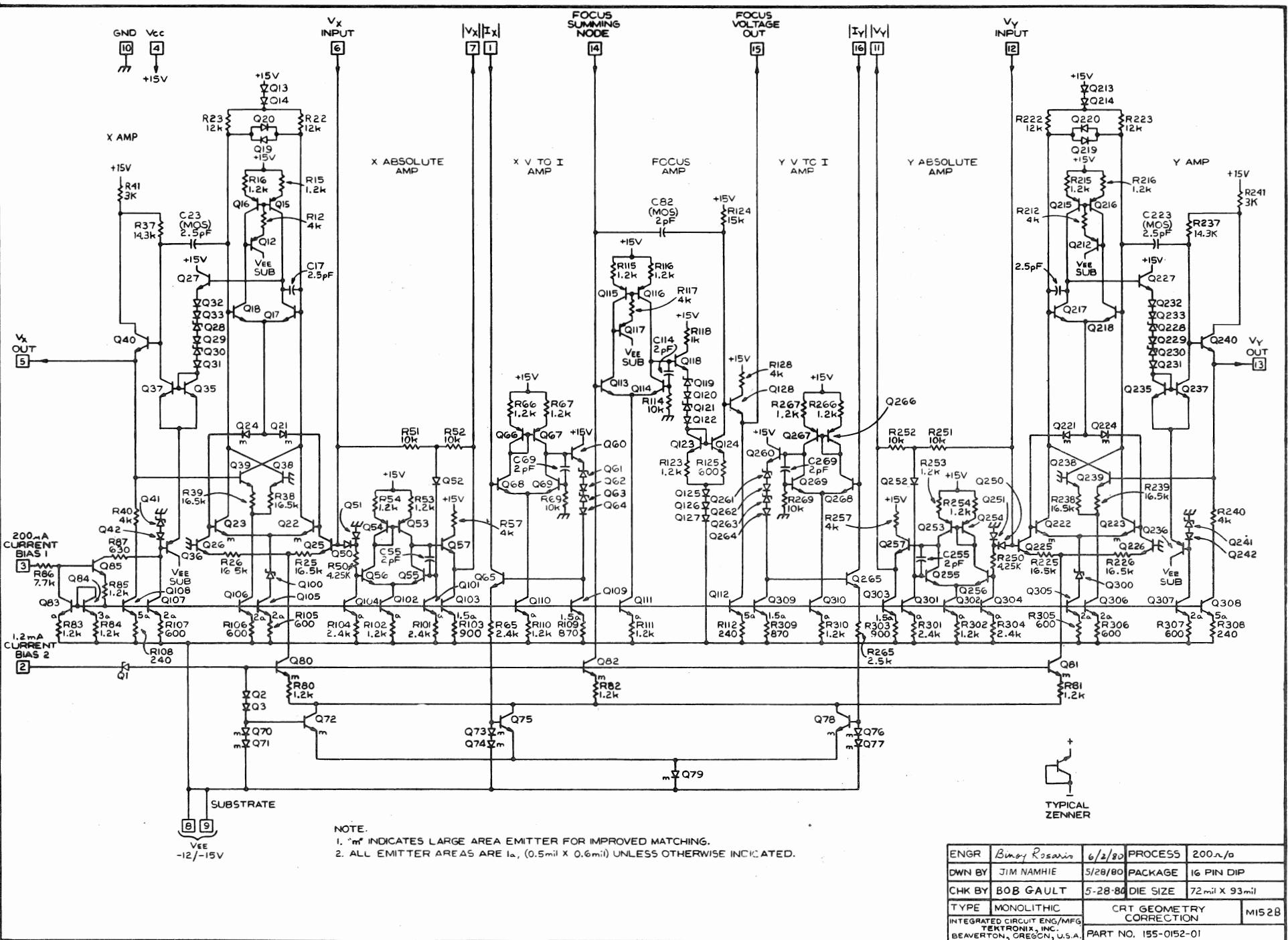
$$\frac{\gamma}{\sqrt{1 + (\kappa_1 x)^2 + (\kappa_2 y)^2}}$$

Where K_1 , K_2 , and K_3 are adjustable externally.

POWER SUPPLY. +15V, -12V, (-15V Optional)

PACKAGE 16 DIP (Plastic)

INSTRUMENT USAGE 4006



ENGR	Binay Rosario	6/2/80	PROCESS	200n/a
DWN BY	JIM NAMHIE	5/28/80	PACKAGE	16 PIN DIP
CHK BY	BOB GAULT	5-28-80	DIE SIZE	72 mil x 93 mil
TYPE	MONOLITHIC		CRT GEOMETRY CORRECTION	M1528
INTEGRATED CIRCUIT ENG/MFG	TETRONIX INC			
BEAVERTON, OREGON, U.S.A.				PART NO. 155-0152-01