11-15-79

SYMBOL DIMENSIONS IN MILS

1. MIN. BAR OR SPACE = 8

2. MAX. BAR OR SPACE @ 95°

$D = ((4 \times 26) + 10.06)\sqrt{2} = 161.3$

3. MAX. "T" LENGTH

$T = ((5 \times 26) + 3.82)\sqrt{2} = 189.3$

4. MIN. "T" LENGTH

$T = ((2 \times 10) - 1.53) = 18.5$

5. MAX. CHARACTER (NUMBER)

$C = ((7 \times 26) + 7.54)\sqrt{2} = 268.1$

6. MIN. CHARACTER (NUMBER)

$C = ((7 \times 10) - 3.02) = 67$

7. MIN. BORDER FOR MAX CHAR.

$B = 268.1 \times 1.125 = 301.6$

8. MIN. MARGIN FOR MAX CHAR.

$301.6 - ((2 \times 26) + 3.82 + (26) + 10.06)\sqrt{2} = 210.9$

8-13-81

12,577 in/in
2.65 counts/mil

COUNTS (AT 33⅓ MHz)

MAX. BAR SPACE : 161 X 2.65 = 427
MAX. T : 189 X 2.65 = 501
MAX. CHAR. LENGTH: 268 X 2.65 = 710

9 BITS →	511	8X501 = 4008
10 "	1023	
11 "	2047	
12 "	4096	

MIN. BORDER FOR MAX. CHAR: 302 X 2.65 = 800

$\frac{800}{4} = 200$

MIN. MARGIN FOR MAX. CHAR: 211 x 2.65 = 559

BAR SPACE REQUIRES 9 BITS
T NUMBERS REQUIRE 9 BITS
CHAR. LENGTH REQUIRES 10 BITS

BORDER & MARGIN ONLY REQUIRED FOR RATIOS
— LAST 2 BITS MAY BE DROPPED.

MIN COUNTS / MILL = 1.95
MAX " = 2.65