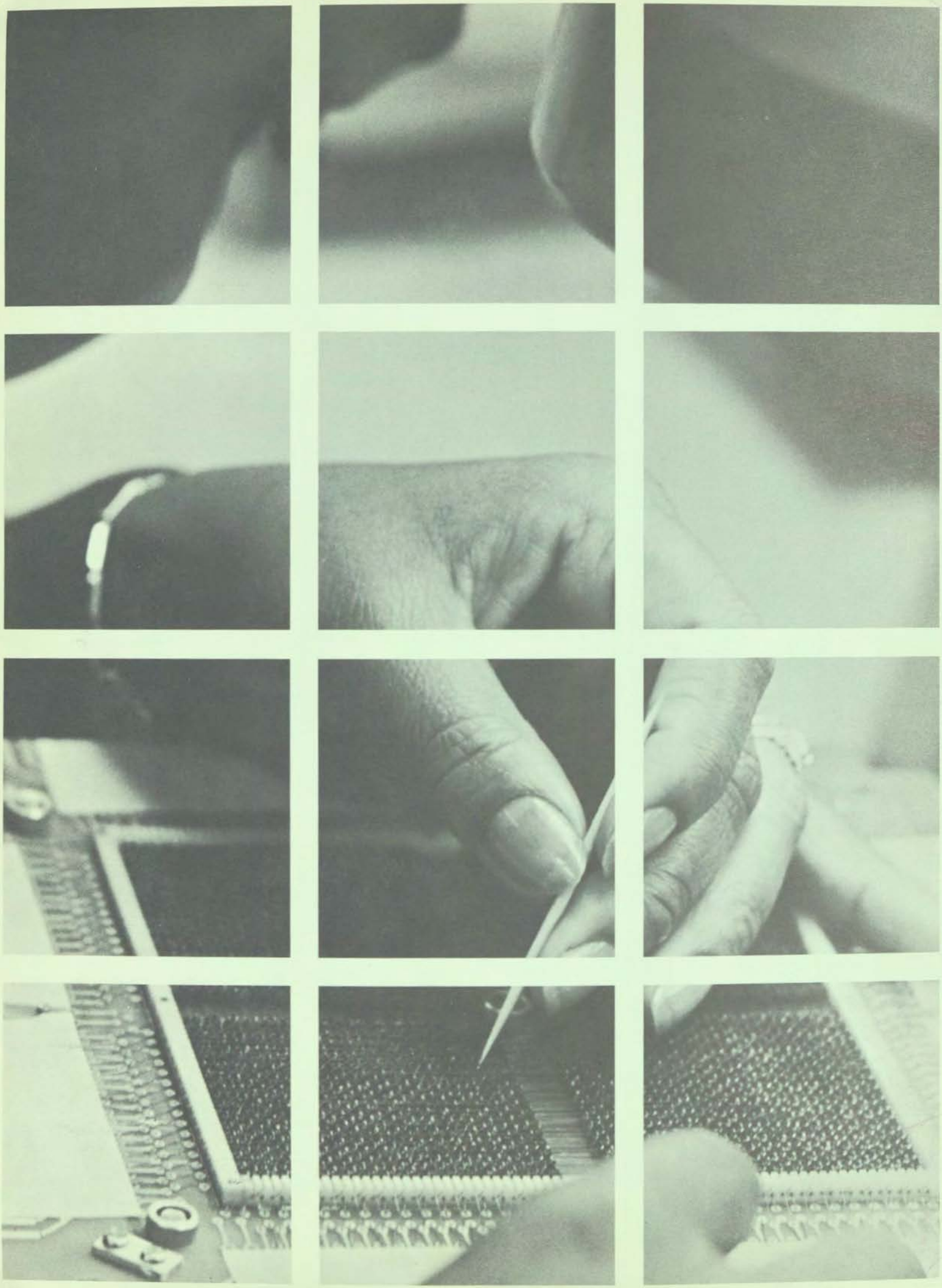
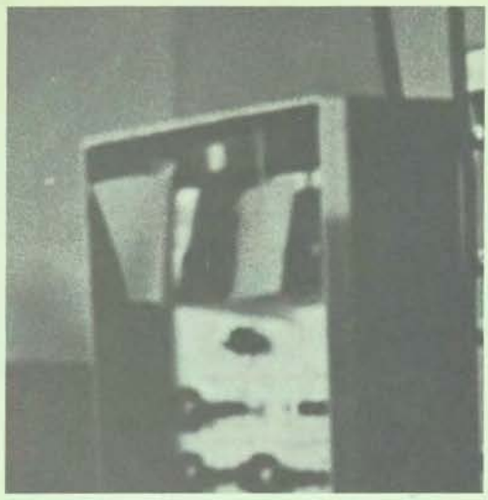
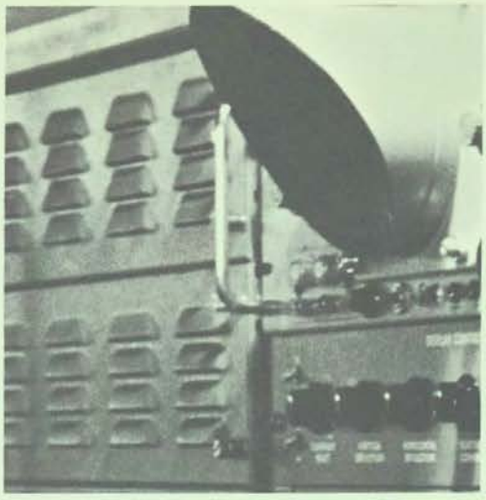
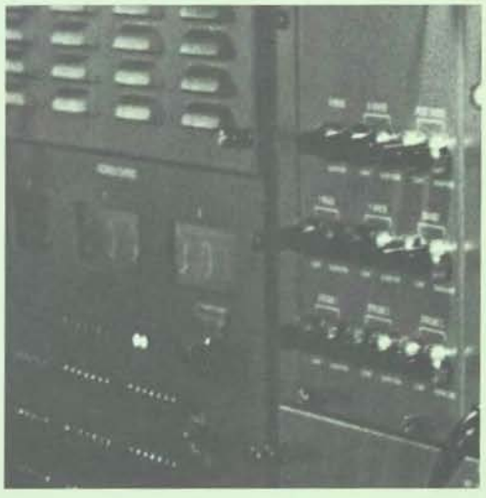
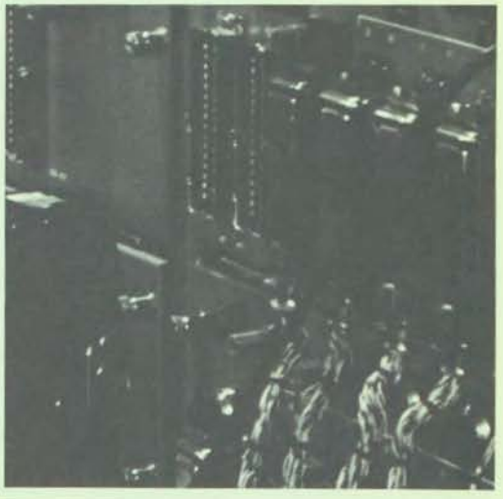
Electronic Memories





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TYPE 31-105

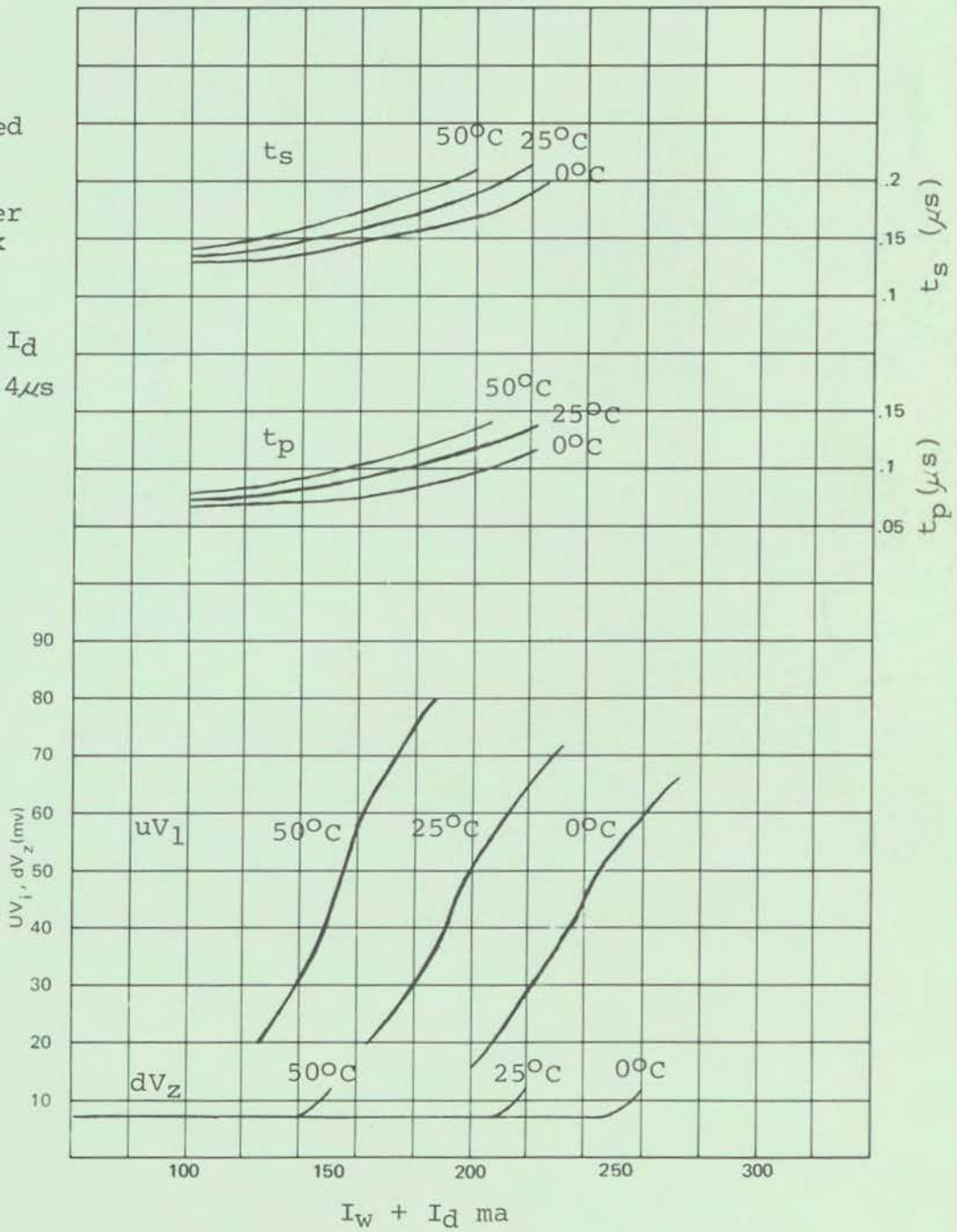
$I_r$ = 380 ma
$t_r$ = .1 μs
$t_f$ = .1 μs

## Description

Type 31-105 ferrite core is designed to be used in high speed NDRO or word select memory systems. It can be used in either partial or full flux switching mode.

| | $I_r$ | $I_w$ | $I_d$ |
|---|---|---|---|
| $t_d$ = | .12μs | .4μs | .4μs |

31-105 TYPICAL CORE PARAMETERS

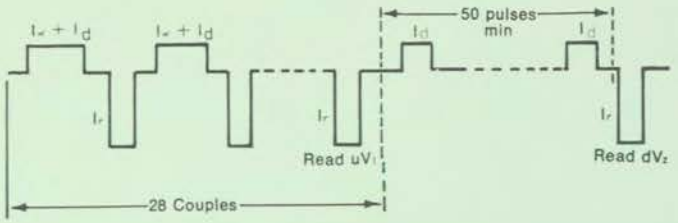


TYPE 31-105

## Mechanical Specification

| | | | |
|---|---|---|---|
| Outside diameter | .031 ± .002 inches | .7874 ± .0508 | millimeters |
| Inside diameter | .020 ± .002 inches | .5080 ± .0508 | millimeters |
| Thickness | .007 ± .0005 inches | .1778 ± .0127 | millimeters |

## Recommended Drive Program




## Typical Operating Conditions

| | $I_r$ (read) | $I_w$ (write) | $I_d$ (current digit) |
|---|---|---|---|
| I (pulse amplitude) | 380 ma | 95 ma | 90 ma |
| $t_d$ (pulse duration) | 0.12μs | 0.4 μs | 0.4μs |
| $t_r$ (pulse rise time) | 0.1 μs | 0.1μs | 0.1μs |
| $t_f$ (pulse fall time) | 0.1μs | 0.1μs | 0.1μs |

## Typical Output Conditions

| | | |
|---|---|---|
| $uV_1$ | (amplitude one) | 35mv |
| $dV_z$ | (amplitude zero) | 6.5mv |
| $t_p$ | (peaking time) | 0.097μs |
| $t_s$ | (switching time) | 0.175μs |

## Test Specification @ 25± 1°C

| | $I_r$ (read) | $I_w$ (write) | $I_d$ (current digit) |
|---|---|---|---|
| I | 360 ± 3.6ma | 85 ± 1.0ma | 100 ± 1.0ma |
| $t_d$ | 0.12μs | 0.4μs | 0.4μs |
| $t_r$ | 0.1 ± .01μs | 0.1 ± .01μs | 0.1 ± .01μs |
| $t_f$ | 0.1 ± .01μs | 0.1 ± .01μs | 0.1 ± .01μs |

## Specified Output Signals

| | |
|---|---|
| $uV_1$ | 24mv min |
| $dV_z$ | 7.5 mv max |
| $t_p$ | 0.1 ± .01μs |
| $t_s$ | .200μs max |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