

MPC79 MEBES Master Plate Specs:

XEROX
PALO ALTO RESEARCH CENTER
 3333 Coyote Hill Road
 Palo Alto, CA 94304
 December 3, 1979

5

To: Micro Mask, Inc.
 From: Alan Bell (494-4326), Reference: P.O. #40784
 Subject: MEBES Master Plate Specifications for project: MPC79A

Max. Pattern Dimensions : X: 7696 μ m Y: 6477 μ m
 Step and Repeat distances: X: 7696 μ m Y: 6477 μ m

# Plates per Set:	6	Defect Density:	Standard
Plate Material:	Chrome, L.E. 30	Tolerance:	+/- 0.25 μ m
Plate Size:	4" x 4" x 0.60"	CD width:	(see below)
F-beam Spot Size:	0.50 μ m	Oversizing:	None
Pattern Size:	3", Round	Undersizing:	None

Pattern Specifications: There are seven (7) different project dies (named B, C, D, E, F, G, H) in this mask set. All have identical dimensions (7696 x 6477 microns). See the diagram on the following pages for the placements of die types within the mask set, and for the location of the CD's. For the purposes of this description, the six master plates will have the following plate names: DIF, IMP, POL, CUT, MET, PAD. The dies will be supplied on magtape in MEBES format.

Filenames for each layer are given in the following table (file names as a function of mask level/die type):

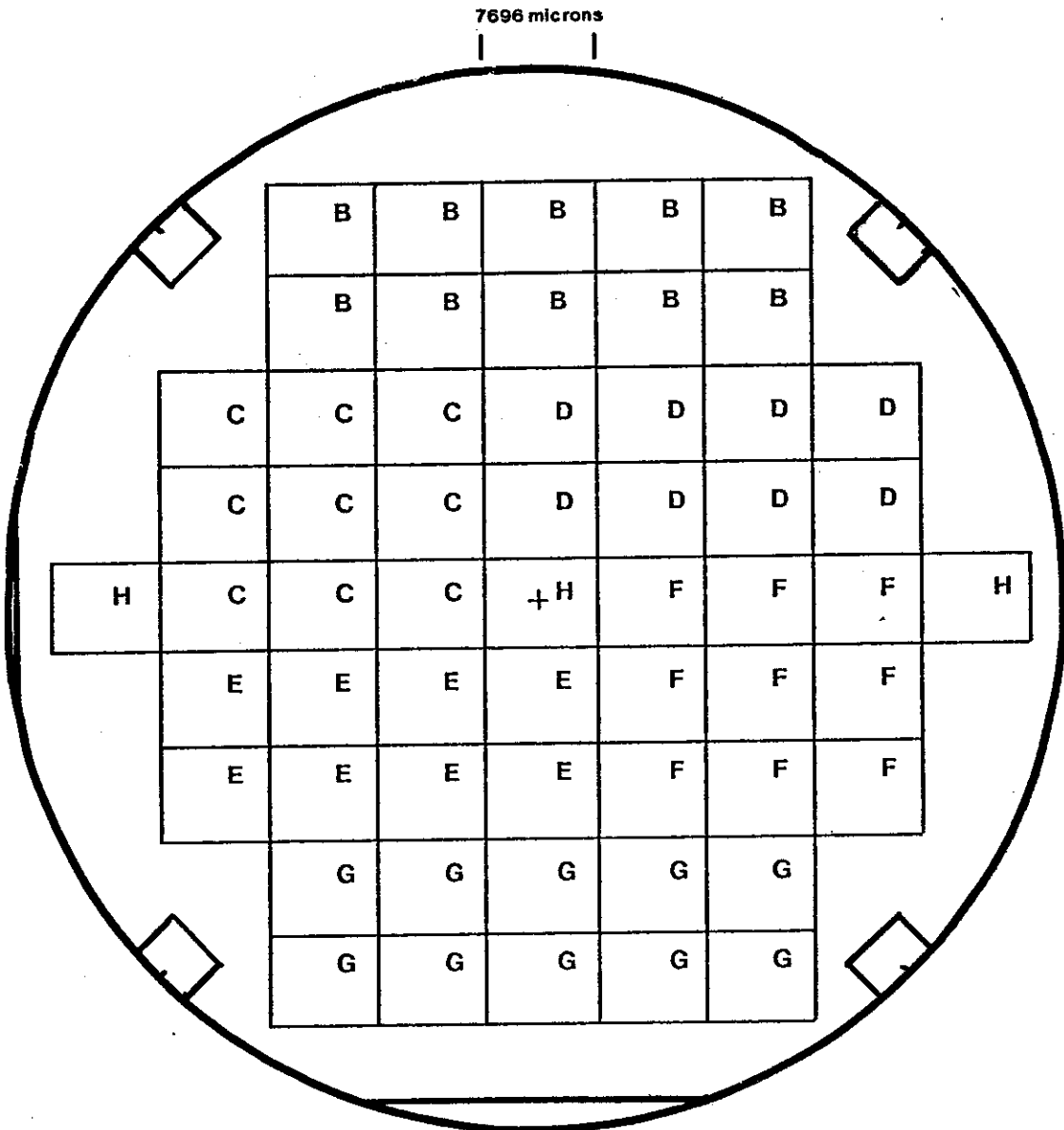
	<u>DIF</u>	<u>IMP</u>	<u>POL</u>	<u>CUT</u>	<u>MET</u>	<u>PAD</u>
Die B:	MPC79AB-10-DI	MPC79AB-20-IM	MPC79AB-30-PO	MPC79AB-40-CU	MPC79AB-50-ME	MPC79AB-60-PA
Die C:	MPC79AC-10-DI	MPC79AC-20-IM	MPC79AC-30-PO	MPC79AC-40-CU	MPC79AC-50-ME	MPC79AC-60-PA
Die D:	MPC79AD-10-DI	MPC79AD-20-IM	MPC79AD-30-PO	MPC79AD-40-CU	MPC79AD-50-ME	MPC79AD-60-PA
Die E:	MPC79AE-10-DI	MPC79AE-20-IM	MPC79AE-30-PO	MPC79AE-40-CU	MPC79AE-50-ME	MPC79AE-60-PA
Die F:	MPC79AF-10-DI	MPC79AF-20-IM	MPC79AF-30-PO	MPC79AF-40-CU	MPC79AF-50-ME	MPC79AF-60-PA
Die G:	MPC79AG-10-DI	MPC79AG-20-IM	MPC79AG-30-PO	MPC79AG-40-CU	MPC79AG-50-ME	MPC79AG-60-PA
Die H:	MPC79AH-10-DI	MPC79AH-20-IM	MPC79AH-30-PO	MPC79AH-40-CU	MPC79AH-50-ME	MPC79AH-60-PA

PLEASE adjust the patterns so that the TEXT on the mask is WRONG-READING when viewed from the CHROME SIDE.

DEVICE LABEL (to appear on each plate): **MPC79A**

FIELD POLARITIES of the plates, the MASK LABELS, and the CD widths should be as follows:

<u>Plate Name</u>	<u>Plate Field</u>	<u>Plate Label</u>	<u>CD Widths</u> (see color plate for locations)
DIF	OPAQUE	XEROX DIF A1	5.0 μ m
IMP	CLEAR	XEROX IMP A2	5.0 μ m
POL	OPAQUE	XEROX POL A3	5.0 μ m
CUT	CLEAR	XEROX CUT A4	5.0 μ m
MET	OPAQUE	XEROX MET A5	5.0 μ m
PAD	CLEAR	XEROX PAD A6	5.0 μ m



Wafer Layout Map: MPC79A

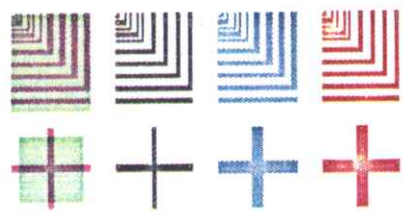
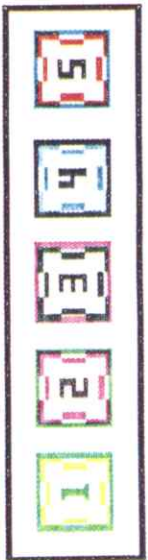
(Die size: 7696 x 6477 microns)

+ marks center of wafer

MPC79AG

1979 MULTI-UNIVERSITY PROJECT CHIP

INFO MGMT: XEROX PARC/SSL
DATA COMM: ARPANET
MASKS BY: MICRO MASK, INC
WAFER FAB: HEWLETT-PACKARD/ICPL



DIF + CUT
IMP + MET
POL + PAD



CD's:

IN UPPER LEFT CORNER OF EACH DIE,
WHEN RIGHT-READING



↑
6477
↓

← 7696 →

CRITICAL DIMENSION LOCATOR MAP

SLICE 1,13
DTITLE A,MPC79A
MTITLE 01,DIF
MTITLE 02,IMP
MTITLE 03,FOL
MTITLE 04,CUT
MTITLE 05,MET
MTITLE 06,PAD
OPTION B,M,P01,P03,P05
CHIP 01,(A,EBCL000-01-CP)
ROWS 18415/50800
ROWS 50800/18016;83584
ROWS 83185/50800
CHIP 02,(01,MPC79AB-10-DI)
\$ (02,MPC79AB-20-IM)
\$ (03,MPC79AB-30-PO)
\$ (04,MPC79AB-40-CU)
\$ (05,MPC79AB-50-ME)
\$ (06,MPC79AB-60-PA)
ROWS 70231/35408,5,7696
ROWS 76708/35408,5,7696
CHIP 03,(01,MPC79AC-10-DI)
\$ (02,MPC79AC-20-IM)
\$ (03,MPC79AC-30-PO)
\$ (04,MPC79AC-40-CU)
\$ (05,MPC79AC-50-ME)
\$ (06,MPC79AC-60-PA)
ROWS 50800/27712,3,7696
ROWS 57277/27712,3,7696
ROWS 63754/27712,3,7696
CHIP 04,(01,MPC79AD-10-DI)
\$ (02,MPC79AD-20-IM)
\$ (03,MPC79AD-30-PO)
\$ (04,MPC79AD-40-CU)
\$ (05,MPC79AD-50-ME)
\$ (06,MPC79AD-60-PA)
ROWS 57277/50800,4,7696
ROWS 63754/50800,4,7696
CHIP 05,(01,MPC79AE-10-DI)
\$ (02,MPC79AE-20-IM)
\$ (03,MPC79AE-30-PO)
\$ (04,MPC79AE-40-CU)
\$ (05,MPC79AE-50-ME)
\$ (06,MPC79AE-60-PA)
ROWS 37846/27712,4,7696
ROWS 44323/27712,4,7696
CHIP 06,(01,MPC79AF-10-DI)
\$ (02,MPC79AF-20-IM)
\$ (03,MPC79AF-30-PO)
\$ (04,MPC79AF-40-CU)
\$ (05,MPC79AF-50-ME)
\$ (06,MPC79AF-60-PA)
ROWS 37846/58496,3,7696
ROWS 44323/58496,3,7696
ROWS 50800/58496,3,7696
CHIP 07,(01,MPC79AG-10-DI)
\$ (02,MPC79AG-20-IM)
\$ (03,MPC79AG-30-PO)

\$ (04,MPC79AG-40-CU)
\$ (05,MPC79AG-50-ME)
\$ (06,MPC79AG-60-PA)
ROWS 24892/35408,5,7696
ROWS 31369/35408,5,7696
CHIP 08,(01,MPC79AH-10-DI)
\$ (02,MPC79AH-20-IM)
\$ (03,MPC79AH-30-PO)
\$ (04,MPC79AH-40-CU)
\$ (05,MPC79AH-50-ME)
\$ (06,MPC79AH-60-PA)
ROWS 50800/20016;50800;81584
CHIP 09,(A,EBCL000-02-CP)
ROWS 18415/50800
ROWS 50800/18016;83584
ROWS 83185/50800
END

XEROX
PALO ALTO RESEARCH CENTER
 3333 Coyote Hill Road
 Palo Alto, CA 94304
 December 3, 1979

5

To: Micro Mask, Inc.
 From: Alan Bell (494-4326), Reference: P.O. #40784
 Subject: MEBES Master Plate Specifications for project: MPC79B

Max. Pattern Dimensions : X: 7696 μ m Y: 6477 μ m
 Step and Repeat distances: X: 7696 μ m Y: 6477 μ m

# Plates per Set:	6	Defect Density:	Standard
Plate Material:	Chrome, L.E. 30	Tolerance:	+/- 0.25 μ m
Plate Size:	4" x 4" x 0.60"	CD width:	(see below)
E-beam Spot Size:	0.50 μ m	Oversizing:	None
Pattern Size:	3", Round	Undersizing:	None

Pattern Specifications: There are seven (7) different project dies (named I, J, K, L, M, N, O) in this mask set. All have identical dimensions (7696 x 6477 microns). See the diagram on the following pages for the placements of die types within the mask set, and for the location of the CD's. For the purposes of this description, the six master plates will have the following plate names: DIF, IMP, POL, CUT, MET, PAD. The dies will be supplied on magtape in MEBES format.

Filenames for each layer are given in the following table (file names as a function of mask level/die type):

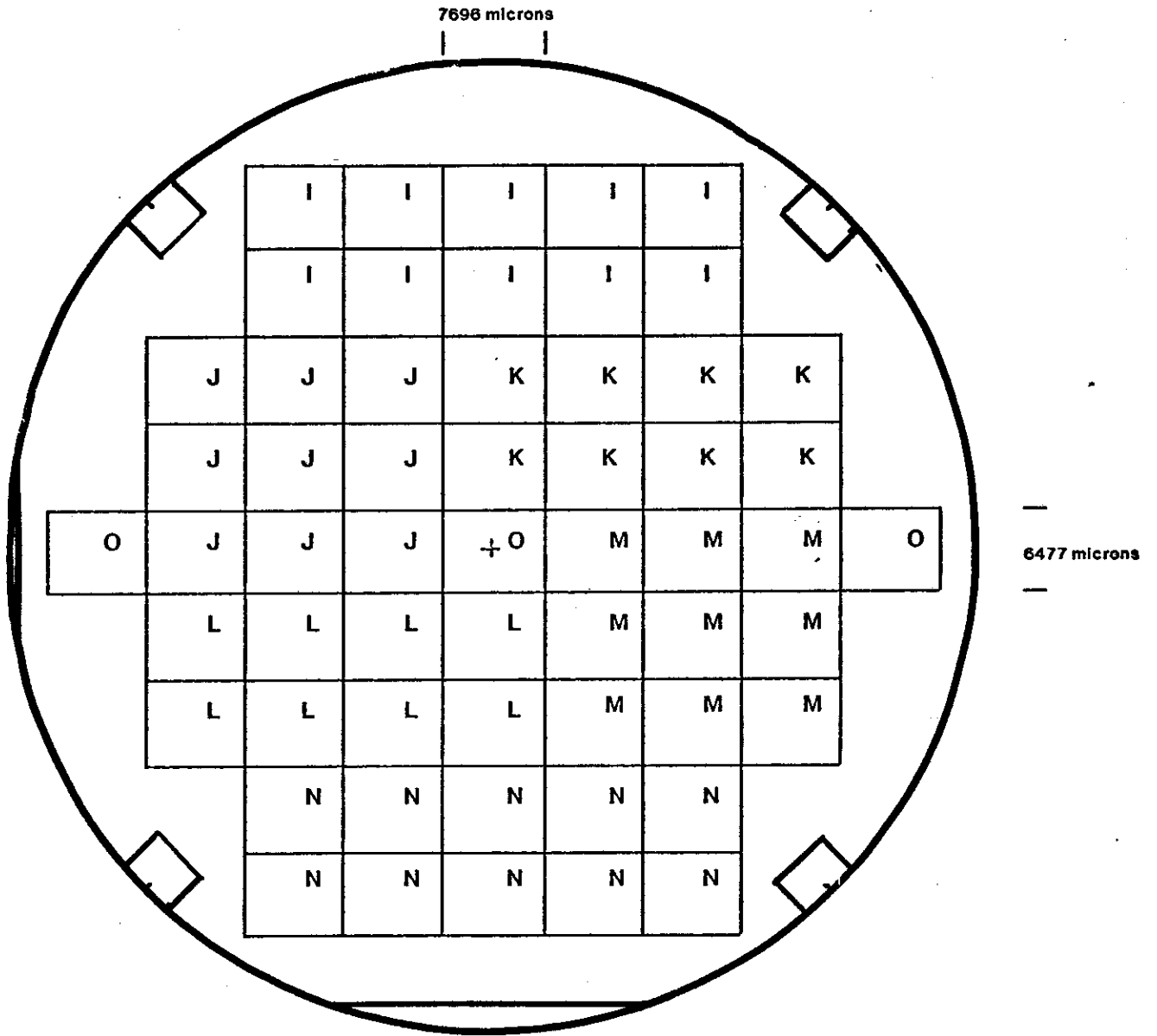
	<u>DIF</u>	<u>IMP</u>	<u>POL</u>	<u>CUT</u>	<u>MET</u>	<u>PAD</u>
Die I:	MPC79BI-10-DI	MPC79BI-20-IM	MPC79BI-30-PO	MPC79BI-40-CU	MPC79BI-50-ME	MPC79BI-60-PA
Die J:	MPC79BJ-10-DI	MPC79BJ-20-IM	MPC79BJ-30-PO	MPC79BJ-40-CU	MPC79BJ-50-ME	MPC79BJ-60-PA
Die K:	MPC79BK-10-DI	MPC79BK-20-IM	MPC79BK-30-PO	MPC79BK-40-CU	MPC79BK-50-ME	MPC79BK-60-PA
Die L:	MPC79BL-10-DI	MPC79BL-20-IM	MPC79BL-30-PO	MPC79BL-40-CU	MPC79BL-50-ME	MPC79BL-60-PA
Die M:	MPC79BM-10-DI	MPC79BM-20-IM	MPC79BM-30-PO	MPC79BM-40-CU	MPC79BM-50-ME	MPC79BM-60-PA
Die N:	MPC79BN-10-DI	MPC79BN-20-IM	MPC79BN-30-PO	MPC79BN-40-CU	MPC79BN-50-ME	MPC79BN-60-PA
Die O:	MPC79BO-10-DI	MPC79BO-20-IM	MPC79BO-30-PO	MPC79BO-40-CU	MPC79BO-50-ME	MPC79BO-60-PA

PLEASE adjust the patterns so that the TEXT on the mask is WRONG-READING when viewed from the CHROME SIDE.

DEVICE LABEL (to appear on each plate): **MPC79B**

FIELD POLARITIES of the plates, the MASK LABELS, and the CD width should be as follows:

<u>Plate Name</u>	<u>Plate Field</u>	<u>Plate Label</u>	<u>CD Widths</u> (see color plate for locations)
DIF	OPAQUE	XEROX DIF B1	5.0 μ m
IMP	CLEAR	XEROX IMP B2	5.0 μ m
POL	OPAQUE	XEROX POL B3	5.0 μ m
CUT	CLEAR	XEROX CUT B4	5.0 μ m
MET	OPAQUE	XEROX MET B5	5.0 μ m
PAD	CLEAR	XEROX PAD B6	5.0 μ m



Wafer Layout Map: MPC79B

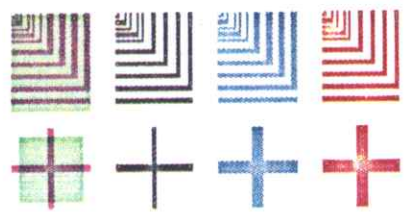
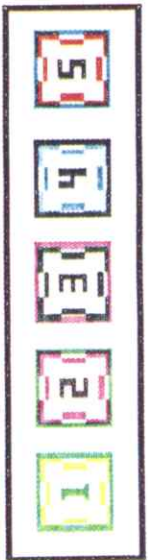
(Die size: 7696 x 6477 microns)

+ marks center of wafer

MPC79AG

1979 MULTI-UNIVERSITY PROJECT CHIP

INFO MGMT: XEROX PARC/SSL
DATA COMM: ARPANET
MASKS BY: MICRO MASK, INC
WAFER FAB: HEWLETT-PACKARD/ICPL



DIF + CUT
IMP + MET
POL + PAD



CD's:

IN UPPER LEFT CORNER OF EACH DIE,
WHEN RIGHT-READING



↑
6477
↓

← 7696 →

CRITICAL DIMENSION LOCATOR MAP

