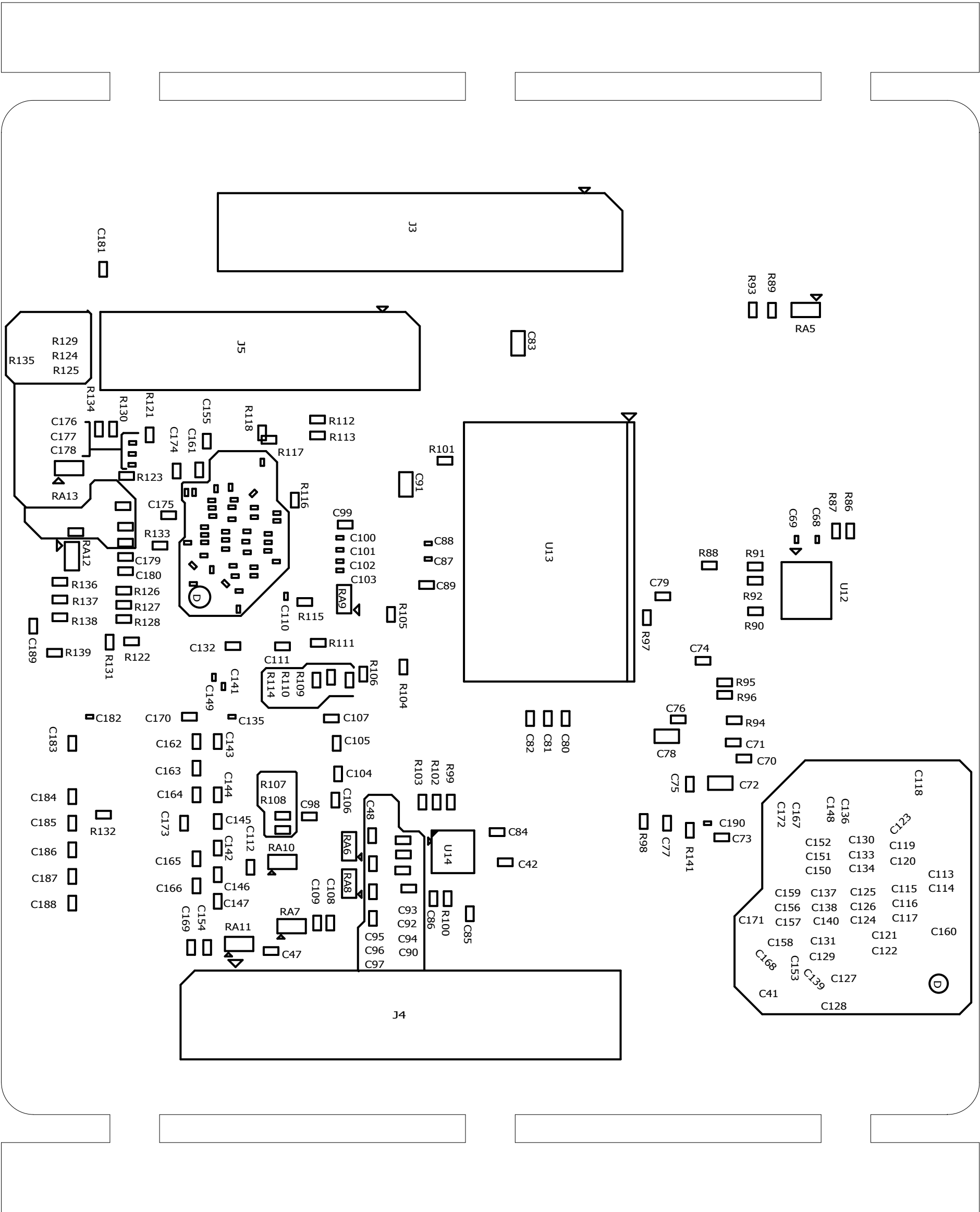
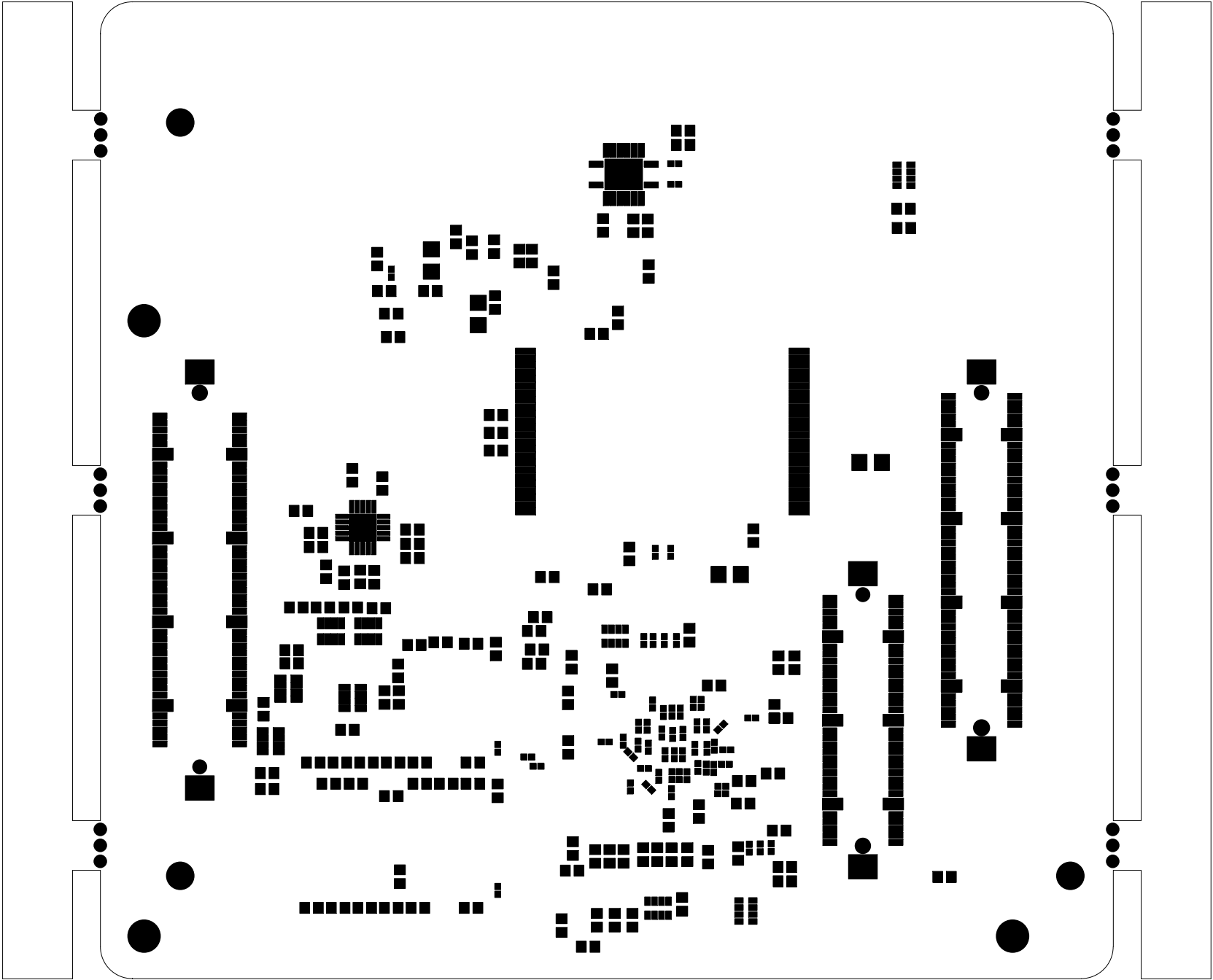


TMDSCK388_PRDN_REVA BOTTOM ASSEMBLY.



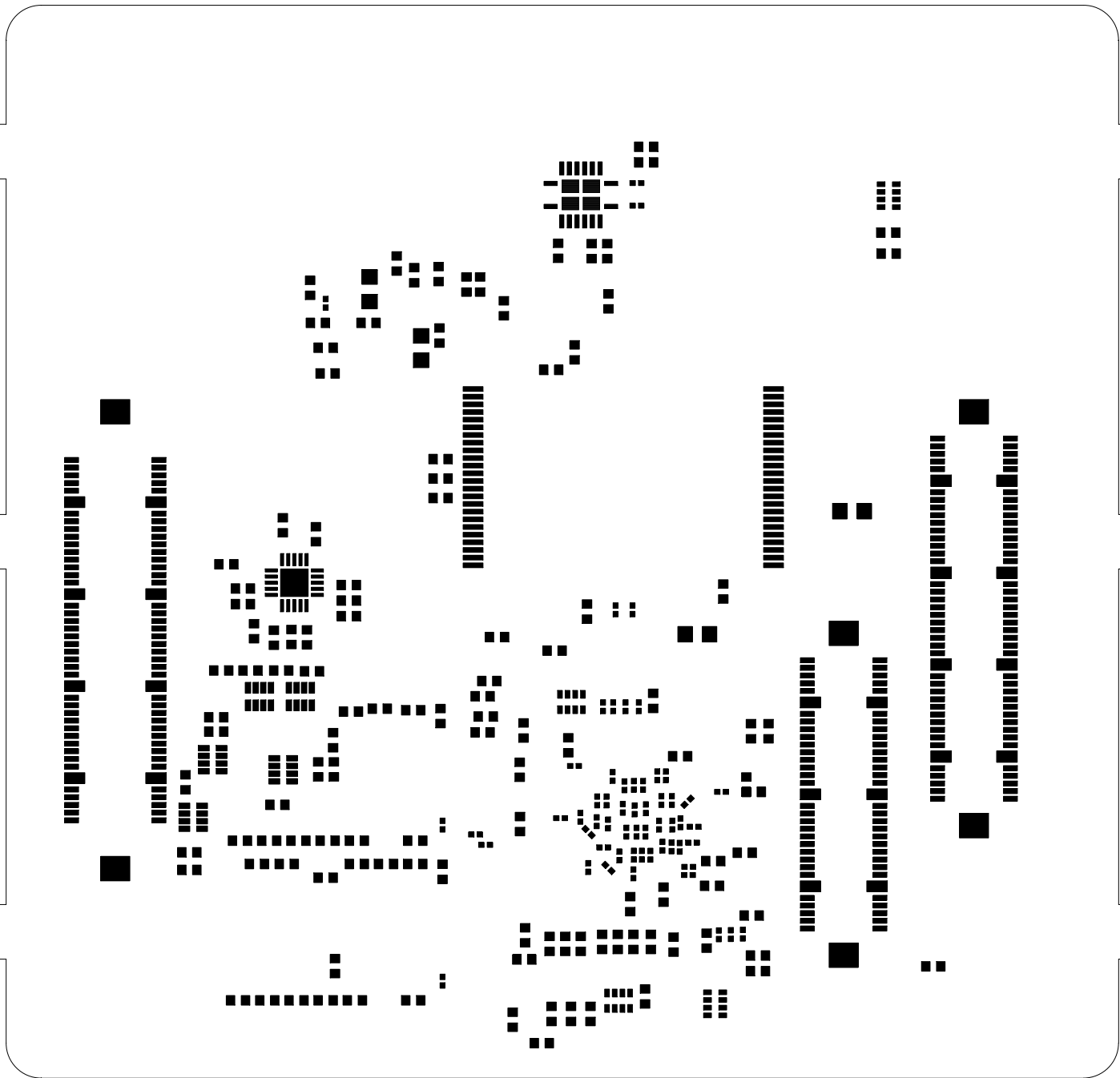


MISTRAL SOLUTIONS.PVT.LTD,

#60, ADARSH REGENT, 100'FT RING ROAD,

DOMLUR EXTENSION, BANGALORE-560 071

TITLE: TMDSCSK388			PRDN_ REVA	SCALE: 1
DATE: 171116	SECONDARY-SOLDERMASK		SHEET	OF 15



MISTRAL SOLUTIONS.PVT.LTD,

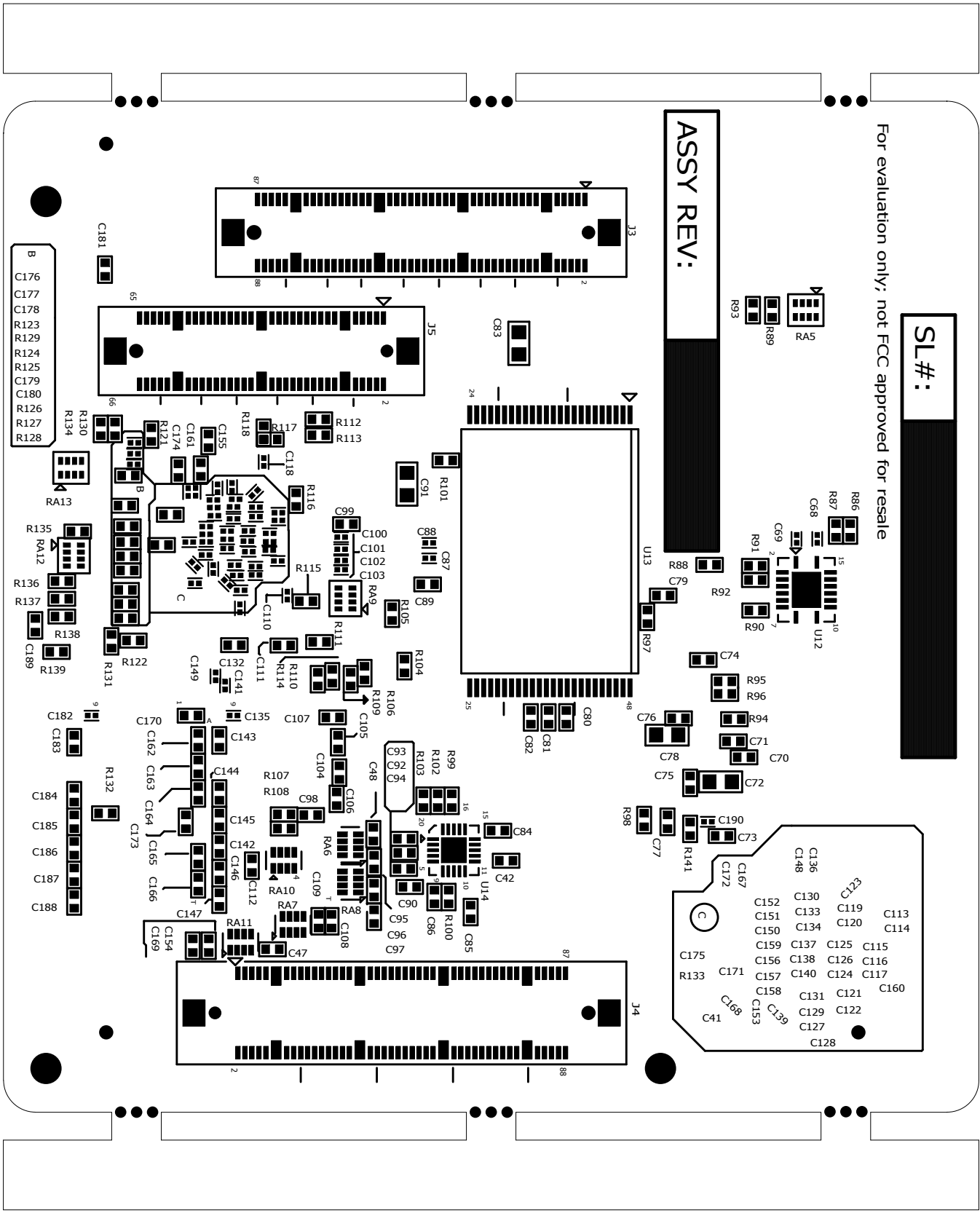
#60, ADARSH REGENT, 100'FT RING ROAD,

DOMLUR EXTENSION, BANGALORE-560 071

TITLE: TMDSCSK388		PRDN_ REVA		SCALE: 1
DATE: 171116	SECONDARY-PASTEMASK		SHEET 015	15

SL#:

For evaluation only; not FCC approved for resale

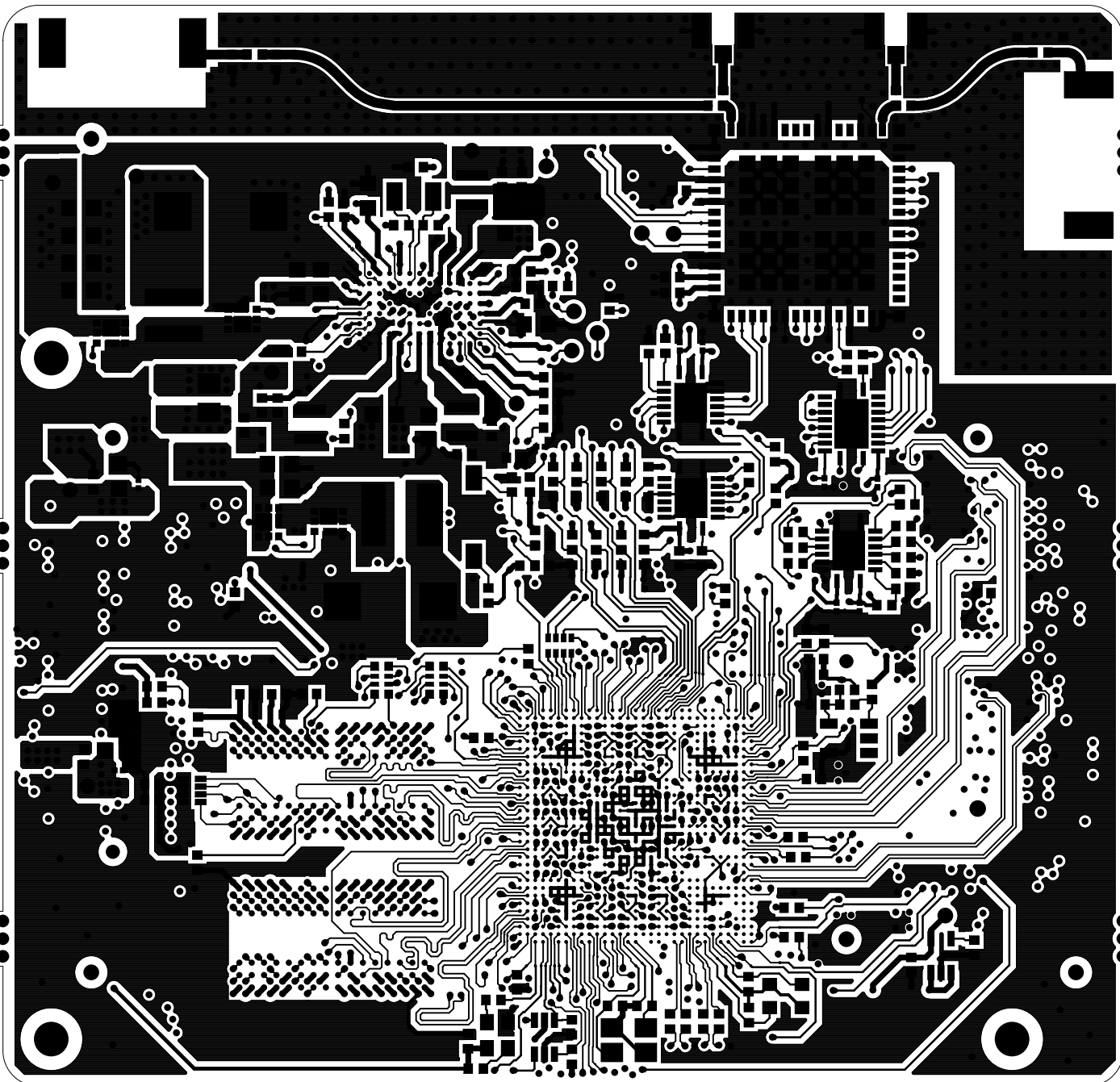


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JASTSIM

JLPTSIM 2025-2026 EXTENSION, BANGLADESH, 100'001 TQ'RT KING ROAD, DAKSHIN KALASH, 02#			
JLPTSIM			
TITLE: 8832222222		DATE: 2025	
SHEET		SECONDARY-2	
DRAW		DATE: 2025	



MISTRAL SOLUTIONS.PVT.LTD,

#60, ADARSH REGENT, 100'FT RING ROAD,

DOMLUR EXTENSION, BANGALORE-560 071

TITLE: TMDSCSK388

PRDN_ REVA

SCALE: 1

DATE: 171116

PRIMARY-SIDE-SIG

SHEET 04 15

FABRICATION NOTES:

1. FABRICATE PCB IN ACCORDANCE WITH IPC-6012C, CLASS 2; PER IPC-6011.
2. MATERIALS:

1. LAMINATE AND PREPREG (B-STAGE) TO BE IN ACCORDANCE WITH IPC-4101/126. (MIN.TG 170)

2. COPPER FOIL TO BE IN ACCORDANCE WITH IPC-MF-150. UNLESS OTHERWISE SPECIFIED, ALL COPPER WEIGHT FOR INNER SIGNAL LAYERS AND INNER PLANE LAYERS TO BE 35UM (1 OZ.). FOR OUTER LAYERS 35UM (1.0 OZ). COPPER WEIGHT IS TO BE CONSIDERED "FINISHED". THE COPPER FOIL THICKNESS TOLERANCES SHALL BE AS PER IPC 6012B TABLE NO.3-7 AND 3-8.
3. ALL HOLES SHALL BE LOCATED WITHIN 0.15MM DIAMETER OF TRUE POSITION. LAYER TO LAYER REGISTRATION SHALL BE WITHIN 0.125MM.
4. BOW AND TWIST SHALL NOT EXCEED MORE THAN 0.75% OF THE DESIGN LENGTH.
5. CONDUCTOR WIDTH SHALL NOT BE LESS THAN 20% FROM ITS ORIGINAL DATA. INCASE FOR MATCHING IMPEDANCE MISTRAL SHALL APPROVE THE MODIFIED WIDTHS AND SPACING. TRACE WIDTH SHALL BE MEASURED ON THE SURFACE IN CONTACT WITH THE LAMINATE.
6. AUTOMATED OPTICAL INSPECTION OF ALL THE LAYERS IS REQUIRED.
7. FINISH:

1. ALL EXPOSED CONDUCTIVE PATTERN AREAS NOT COVERED WITH SOLDER MASK OR OTHER PLATING SHALL BE ENIG, ELECTROLESS NICKEL/IMMERSION GOLD, ELECTROLESS NICKEL SHALL BE 3-6 MICRONS, TYPICAL IMMERSION GOLD THICKNESS SHALL BE 0.04-0.06 MICRONS OF SOLDERABLE IMMERSION GOLD SURFACE.

2. APPLY LIQUID PHOTO IMAGEABLE SOLDER MASK PER IPC-SM-840, CLASS H, TO BOTH SIDES OF THE BOARD OVER BARE COPPER. VIA HOLES SHALL BE FILLED WITH NON CONDUCTIVE INK AND COVERED WITH SOLDER MASK. ONLY SOLDER MASK IMAGES THAT ARE 0.08(0.003") PER SIDE SHALL BE REDUCED IF REQUIRED. ALL OTHER SOLDER MASK IMAGES SHALL NOT BE ENLARGED. DEFAULT COLOUR OF SOLDER MASK SHALL BE RED.

3. SILKSCREEN SHALL BE WHITE, PERMANENT, ORGANIC, NON-CONDUCTIVE INK. THERE SHALL BE NO SILKSCREEN ON ANY SOLDERABLE COMPONENT PAD. CLIPPING OF SILK SCREEN SHALL BE ALLOWED IF THE SILK SCREEN FALLS ON SOLDERABLE AREAS.

4. SURFACE AND VIA HOLES FINISH SHALL NOT BE LESS THAN 20UM [0.00079"], INCASE OF LASER VIA'S, BLIND VIA'S SHALL NOT BE LESS THAN 12UM [0.00047"] AND BURIED VIA'S SHALL NOT BE LESS THAN 15UM [0.0006"].

5. ALL HOLES SURROUNDED BY LAND <=0.010" SHALL BE COMPLAIN TO IPC6012, CLASS 2.
8. MARKING:

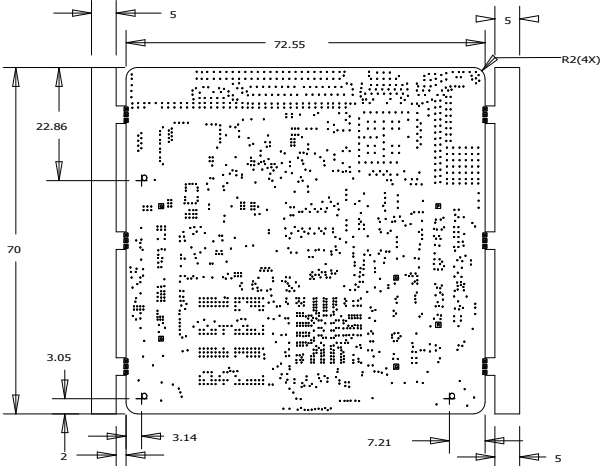
1. NOT APPLICABLE.

2. BOARD SHALL MEET THE REQUIREMENTS OF UL-796E WITH FLAMMABILITY RATING OF MINIMUM 94V-0. UL LOGO, MANUFACTURER'S IDENTIFICATION AND DATE CODE LETTER SHALL BE RENDERED IN SILKSCREEN.
9. TEST REQUIREMENTS:

1. 100% NET LIST ELECTRICAL VERIFICATION USING MISTRAL SUPPLIED IPC-D-356 NET LIST FOR OPENS AND SHORTS.
10. FINISHED BOARD THICKNESS 0.063" +/- 10%
11. MINIMUM TRACEWIDTH AND SPACING: 0.004/0.0036".

REV #	DESCRIPTION	DATE
REV #	CCN #	DDMMYY


DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
•	10.0	+3.0/-3.0	PLATED	1748
■	32.0	+2.0/-2.0	NON-PLATED	18
■	36.0	+2.0/-2.0	NON-PLATED	2
■	38.0	+2.0/-2.0	NON-PLATED	1
■	40.0	+2.0/-2.0	NON-PLATED	2
■	42.0	+2.0/-2.0	NON-PLATED	1
⌀	88.0	+2.0/-2.0	NON-PLATED	3



IMPEDANCE SPECIFICATIONS

SL#	TYPE	LAYER	TRACEWIDTH(Mils)	SPACING(Mils)	IMPEDANCE(Ohms)	REF LAYER
01	EDGE COUPLED STRIPLINE	L03&L06	4	9	100	L02&L07
02	EDGE COUPLED MICROSTRIP	L01	4	4.5	90	L02
03	EDGE COUPLED MICROSTRIP	L01&L08	4	7	100	L02&L07
04	STRIPLINE	L03&L06	4.7	-	50	L02&L07
05	STRIPLINE	L03&L06	4	-	55	L02&L07
06	MICROSTRIP	L01&L08	4.01	-	55	L02&L07
07	MICROSTRIP	L01&L08	5.50	-	50	L02&L07
08	COATED COPLANAR	L01	25	7.5	50	L04

LAYER STACKUP					
LAYER NAME		FINISHED Cu	X-SECTION	DIELECTRIC THICKNESS	
PRIMARY SIDE SILKSCREEN				[INCHES]	
PRIMARY SIDE SOLDERMASK					
L01	PRIMARY SIDE	1oz.			0.0037
L02	GROUND-PLANE-1	1oz.			0.0045
L03	INNER-SIGNAL-1	1oz.			0.014
L04	POWER-PLANE-1	1oz.			0.008
L05	POWER-PLANE-2	1oz.			0.014
L06	INNER-SIGNAL-2	1oz.			0.0045
L07	GROUND-PLANE-2	1oz.			0.0037
L08	SECONDARY SIDE	1oz.			
SECONDARY SIDE SOLDERMASK					
SECONDARY SIDE SILKSCREEN					



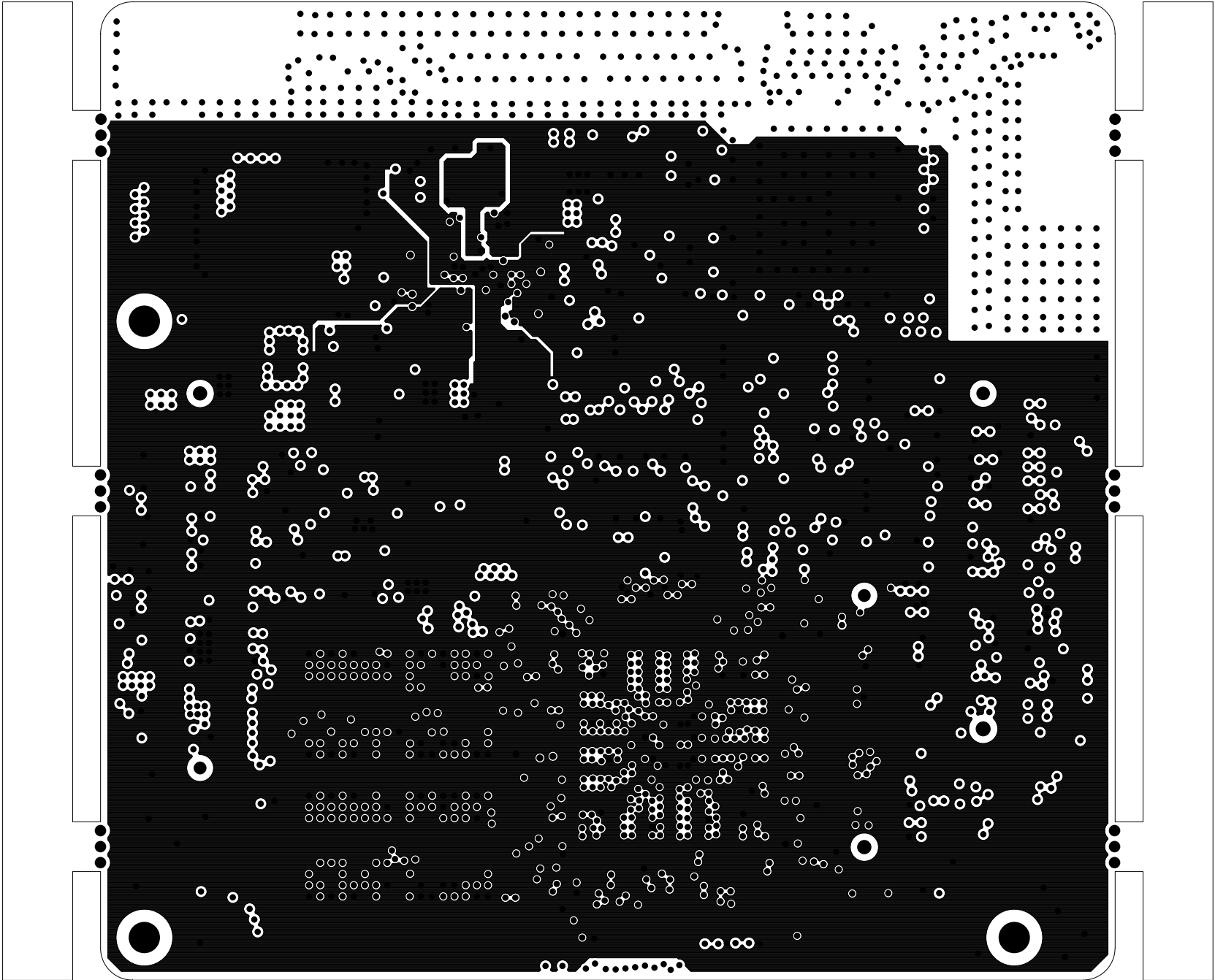
MISTRAL

MISTRAL SOLUTIONS PVT LTD.
#60, ADARSH REGENT, 100' FEET RING ROAD,
DOMLUR EXTENSION, BANGALORE 560 071.

PCB,
TMDSCSK388

APPROVALS		DATE	SIZE	DRAWING NO.		REV
DRAWN	RP/SG	171116	C	FY170076000102		PRDN_REVA
CHECKED	ZA	171116				
APPROVED	AJ	171116				

SCALE:NONE	FILE NAME:	SHEET 1 OF 15
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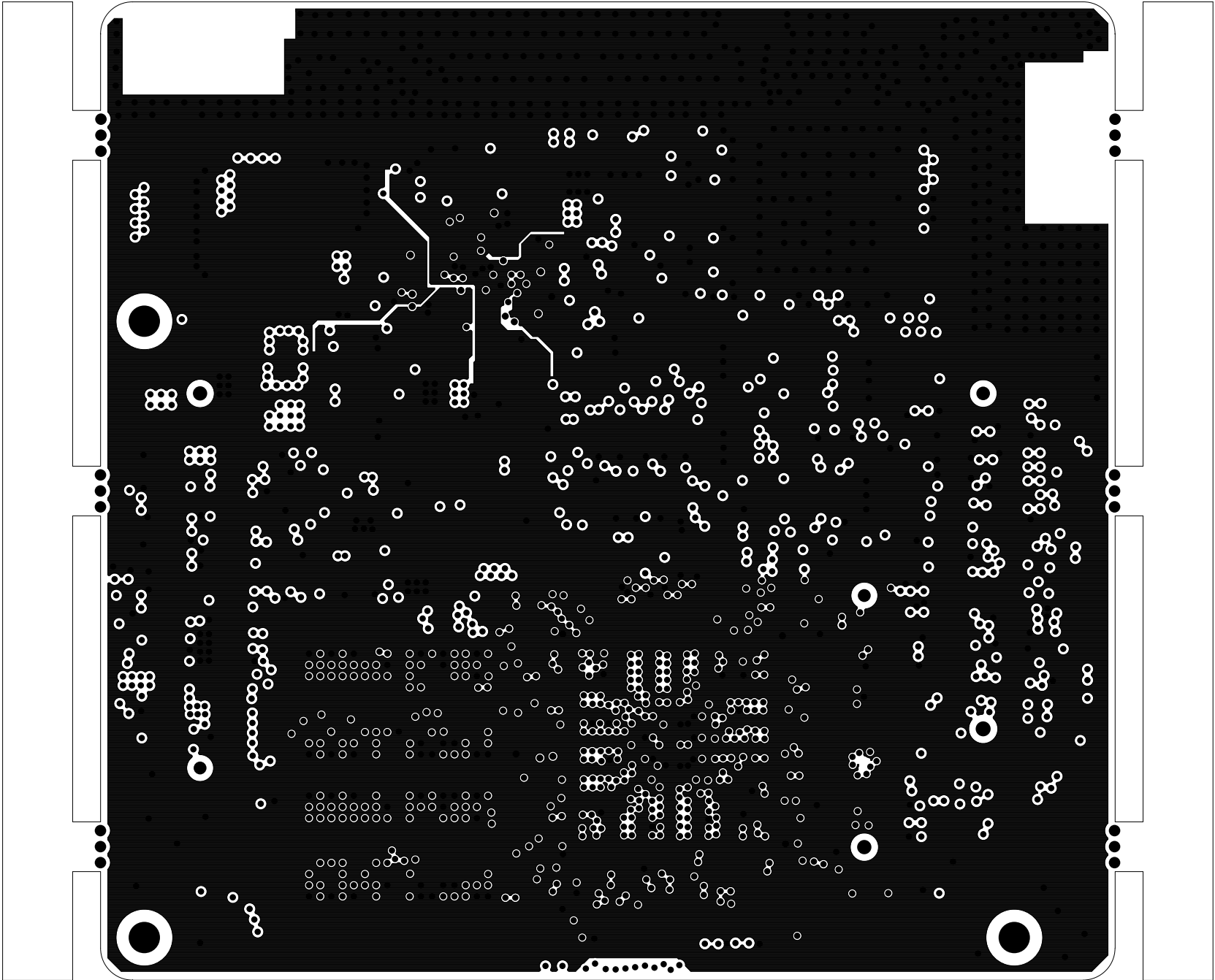


MISTRAL SOLUTIONS.PVT.LTD,

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DOMLUR EXTENSION, BANGALORE-560 071

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DATE: 171116	GROUND-PLANE-01			SHEET 05 15

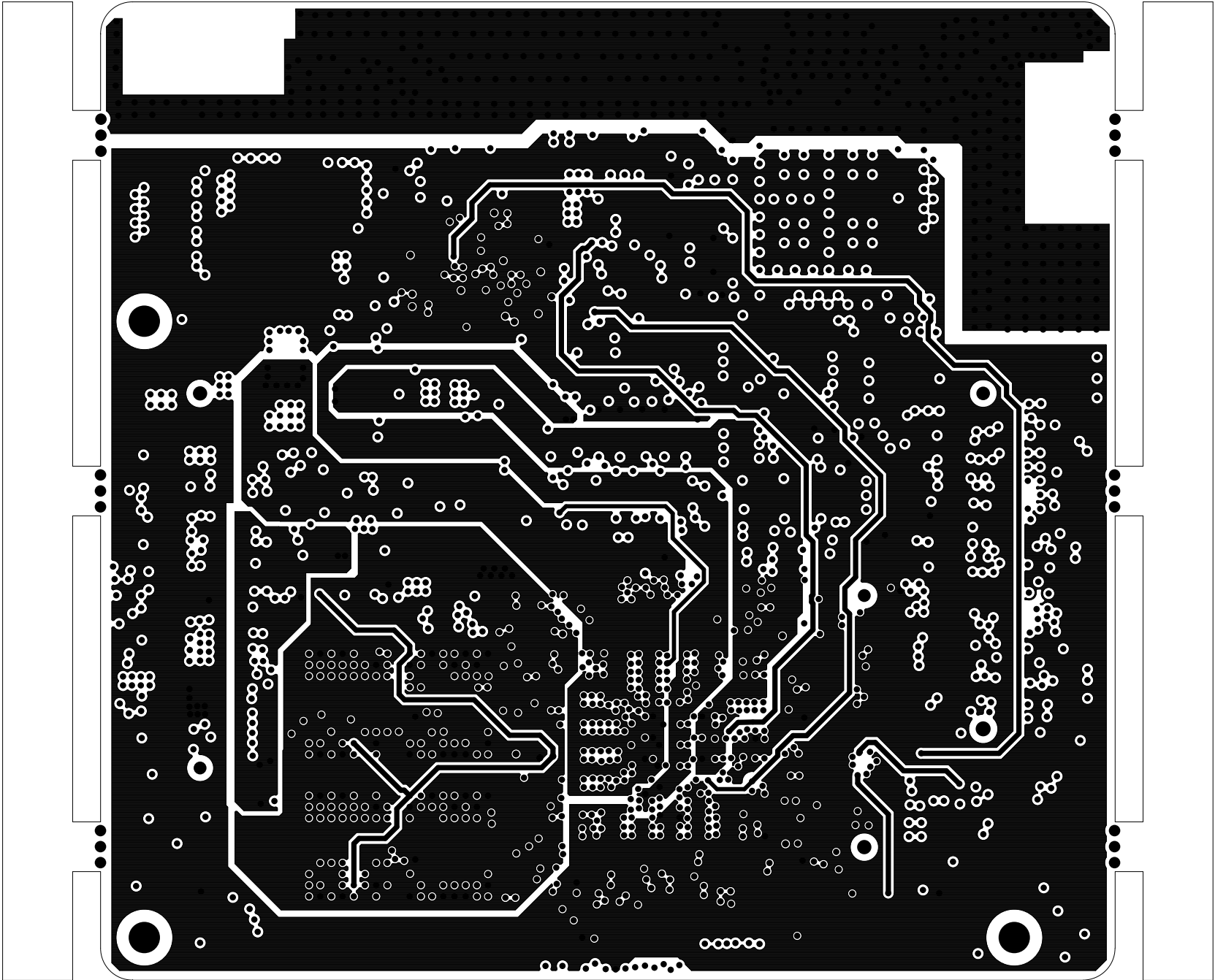


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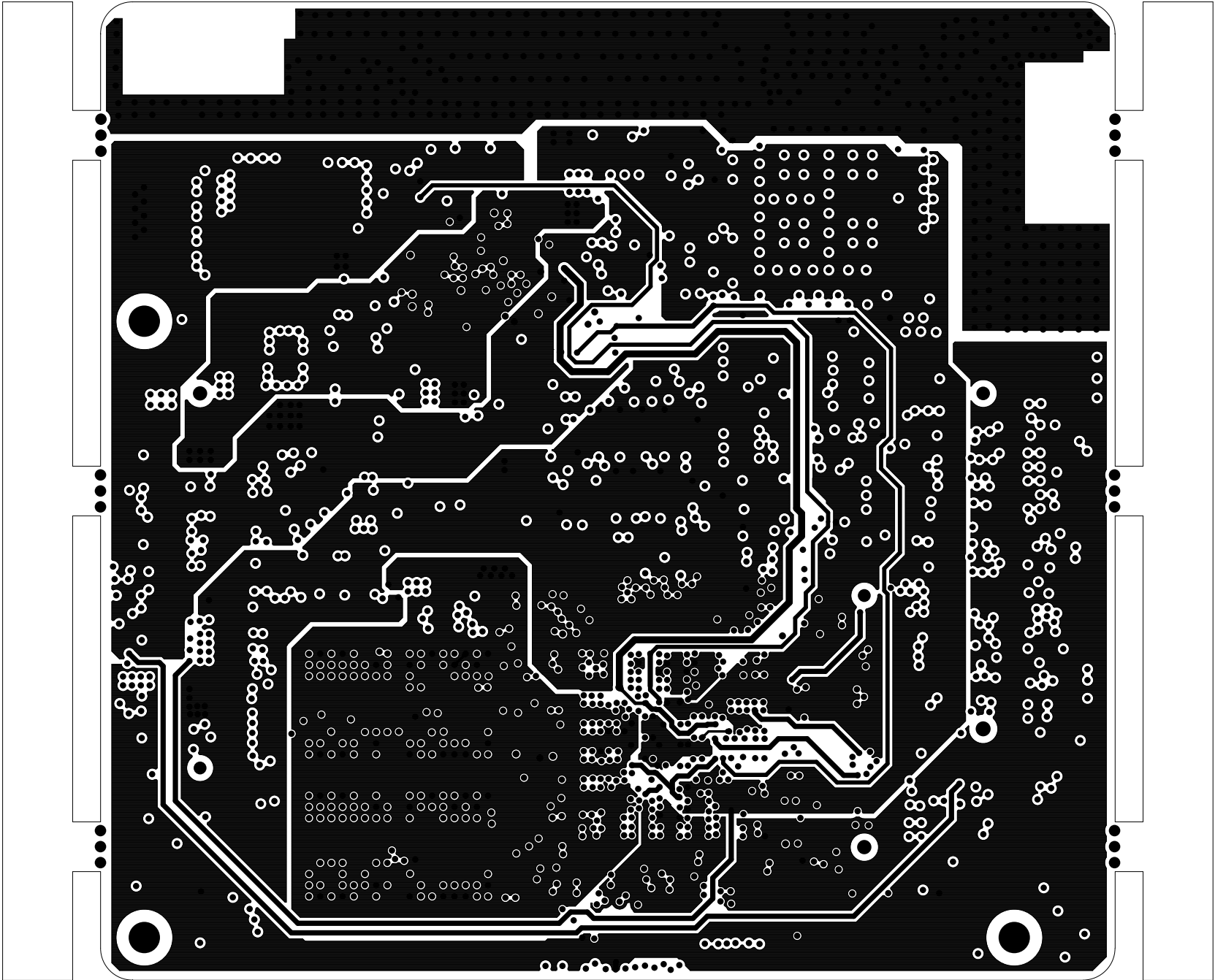
DOMLUR EXTENSION, BANGALORE-560 071

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DATE: 171116	GROUND-PLANE-02		SHEET	OF 15



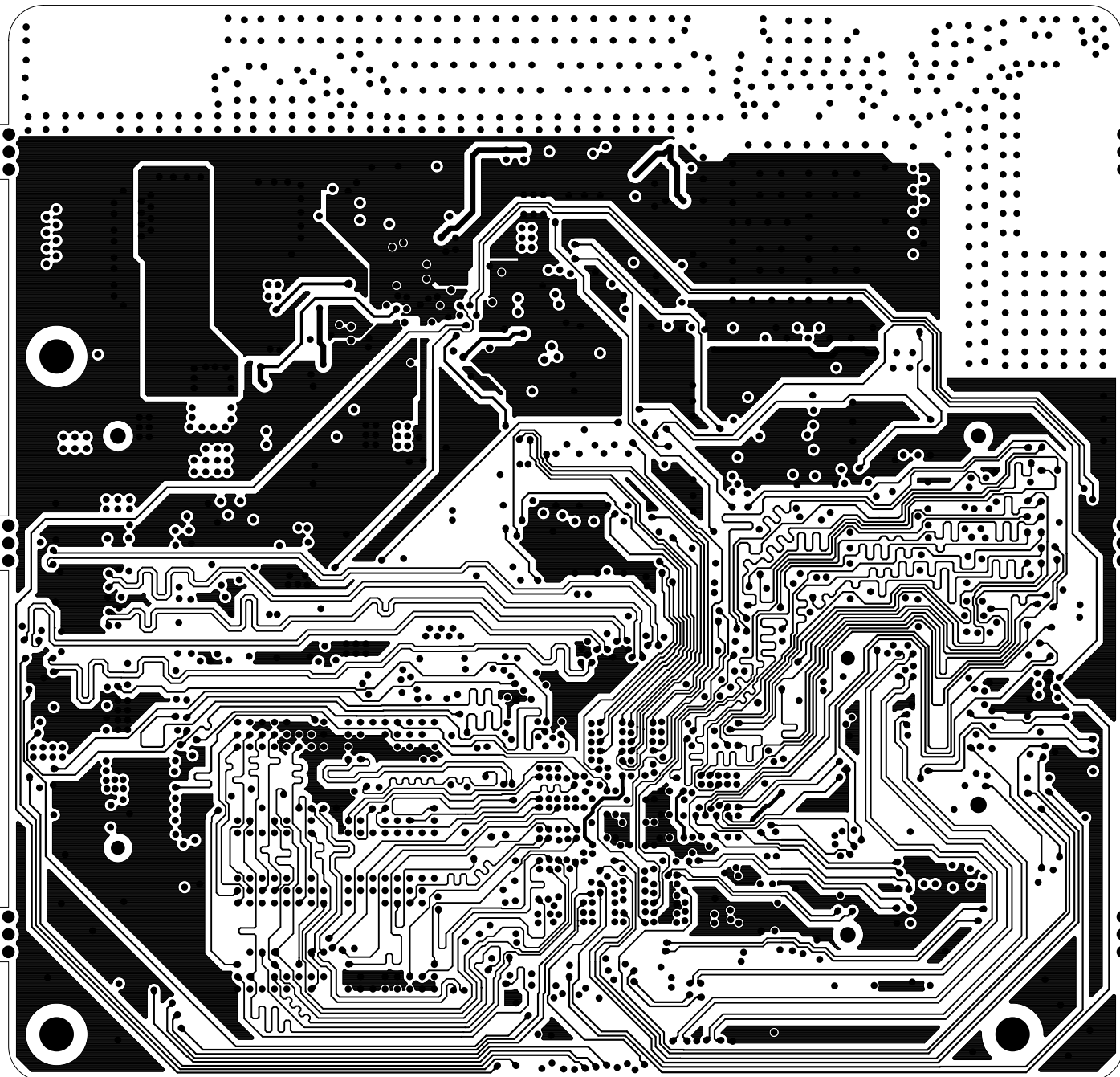
MISTRAL SOLUTIONS.PVT.LTD,
#60, ADARSH REGENT, 100'FT RING ROAD,
DOMLUR EXTENSION, BANGALORE-560 071

TITLE: TMDSCSK388			PRDN_ REVA	SCALE: 1
DATE: 171116	POWER-PLANE-01			SHEET 07 15



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TITLE: TMDSCSK388			PRDN_ REVA	SCALE: 1
DATE: 171116	POWER-PLANE-02			SHEET 08 15

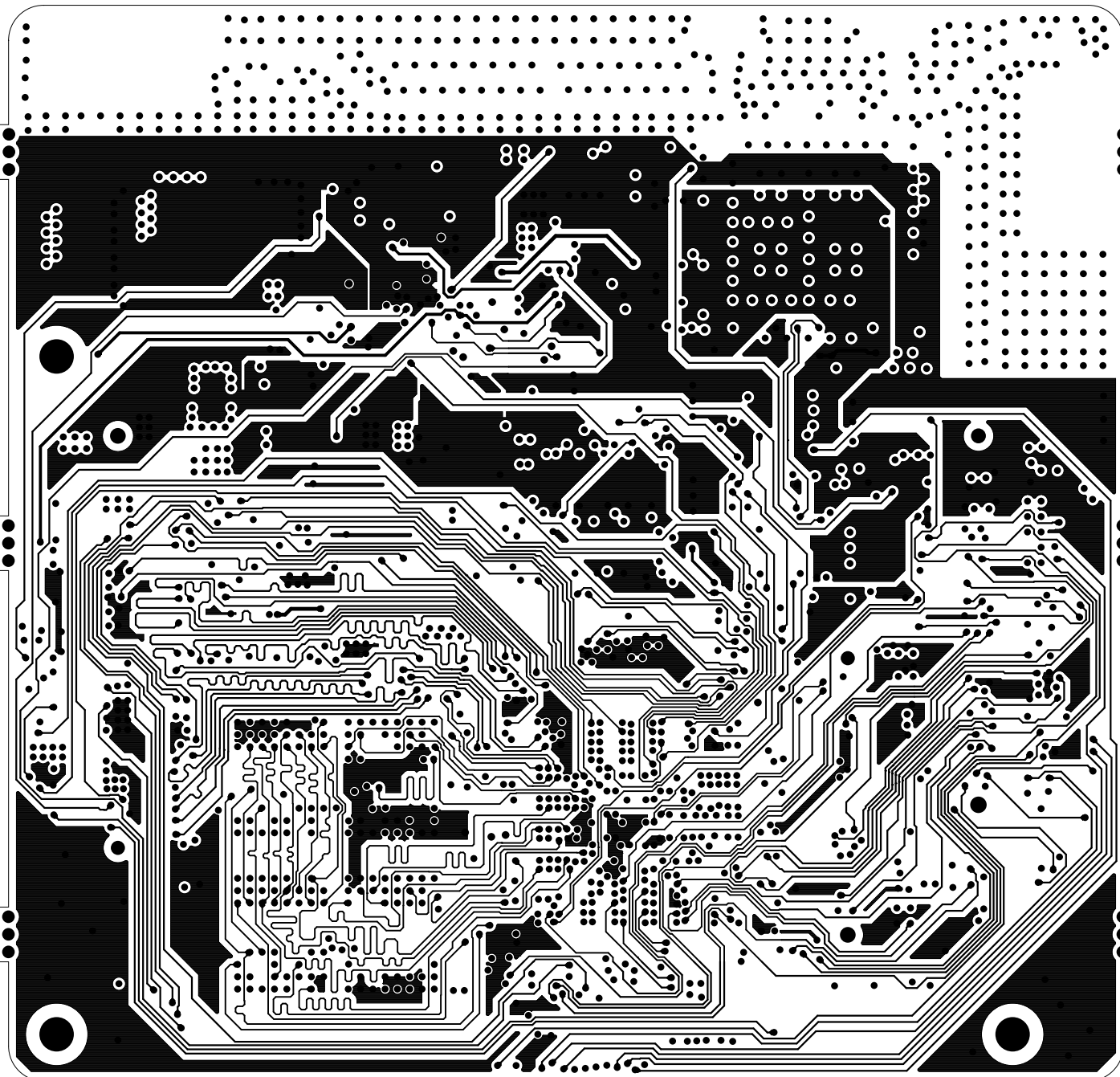


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TITLE: TMDSCSK388		PRDN_ REVA	SCALE: 1
DATE: 171116	INNER-SIGNAL-01		SHEET 06 15

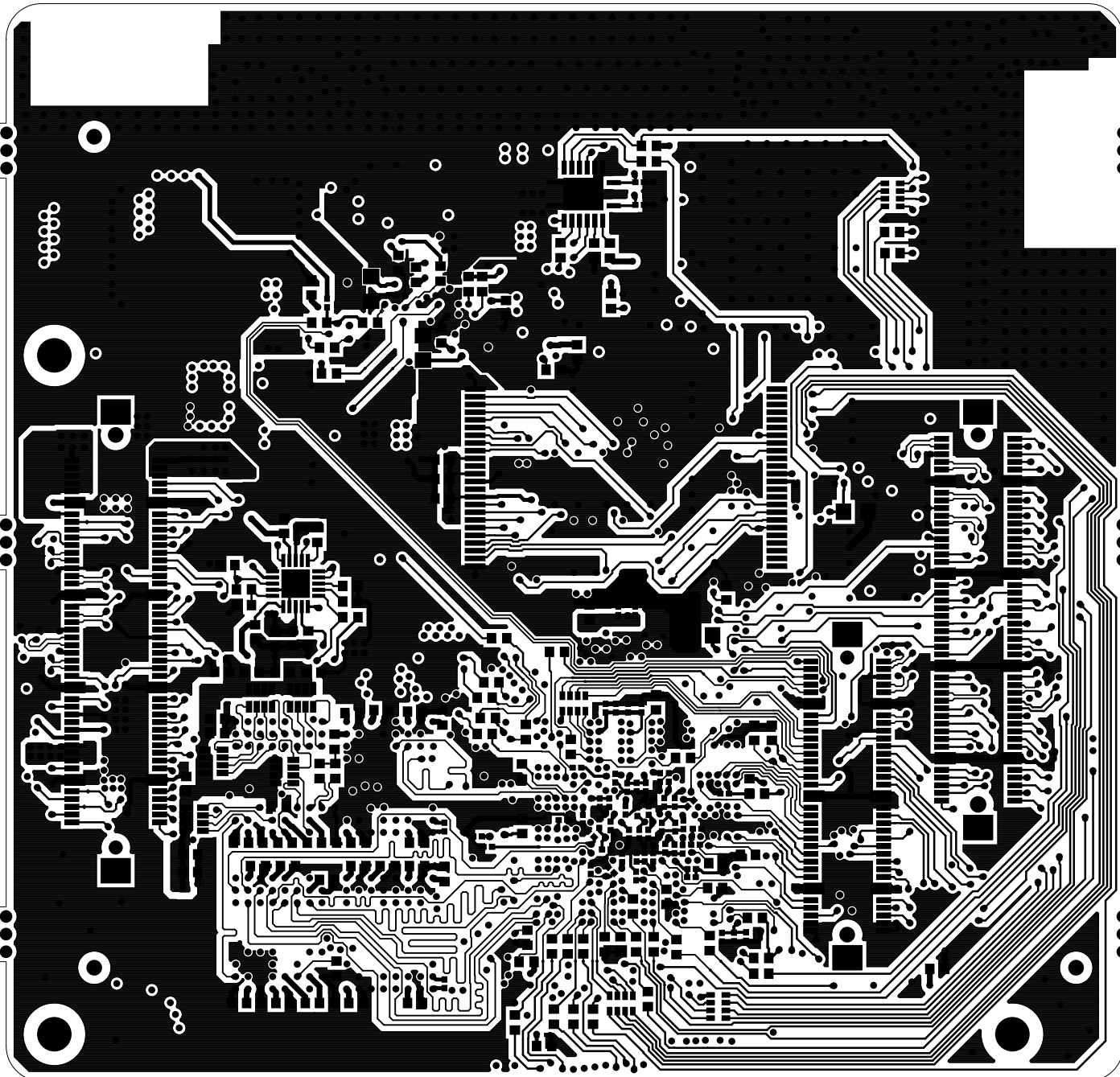


® MISTRAL SOLUTIONS.PVT.LTD,

#60, ADARSH REGENT, 100'FT RING ROAD,

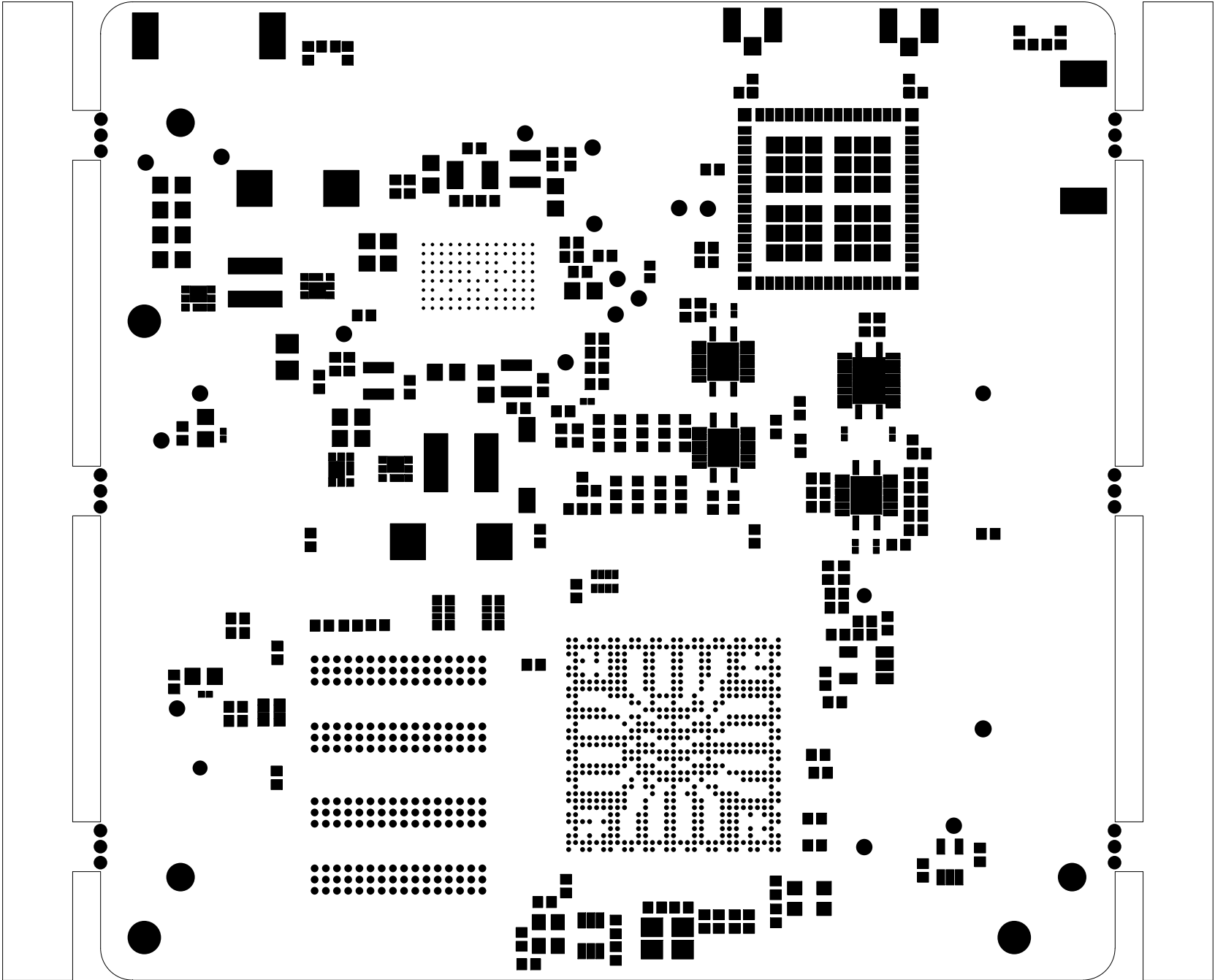
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DATE: 171116	INNER-SIGNAL-02		SHEET 09 15



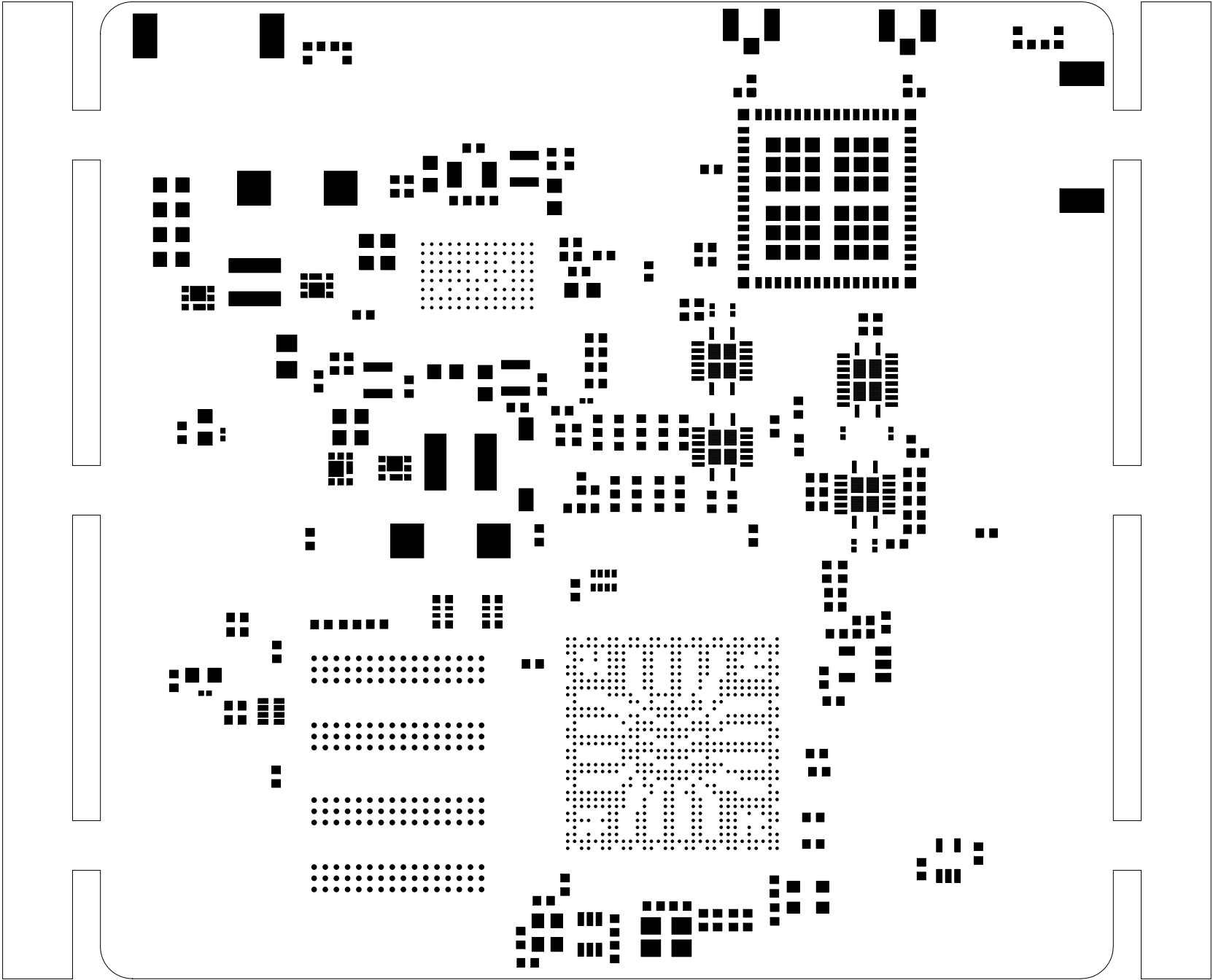
[®] MISTRAL SOLUTIONS.PVT.LTD,
#60, ADARSH REGENT, 100'FT RING ROAD,
DOMLUR EXTENSION, BANGALORE-560 071

TITLE: TMDSCSK388			PRDN_ REVA	SCALE: 1
DATE: 171116	SECONDARY-SIDE-SIG		SHEET	OF 15



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TITLE: TMDSCSK388			PRDN_ REVA	SCALE: 1
DATE: 171116	PRIMARY-SOLDERMASK		SHEET 03	15

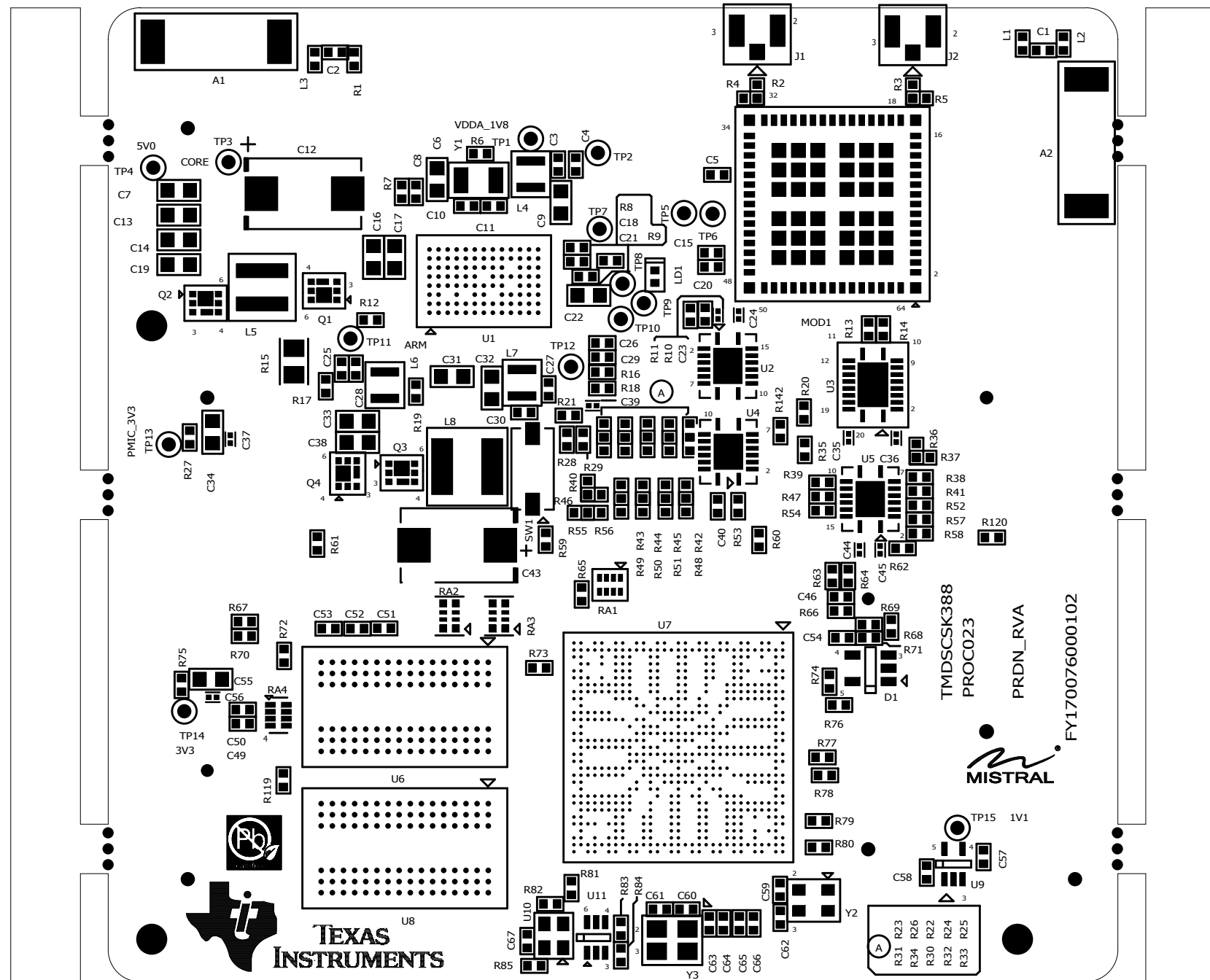


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TITLE: TMDSCSK388			PRDN_ REVA	SCALE: 1
DATE: 171116	PRIMARY-PASTEMASK		SHEET	OF 15



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DOMLUR EXTENSION, BANGALORE-560 071

TITLE: TMDSCSK388

PRDN_ REVA

SCALE: 1

DATE: 171116

PRIMARY-SILKSCREEN

SHEET 02 15