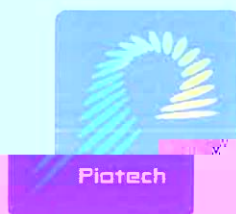


本次股票发行后将在科创板市场上市，该市场具有较高的投资风险。科创板公司具有研发投入大、经营风险高、业绩不稳定、退市风险高等特点，投资者面临较大的市场风险。投资者应充分了解科创板市场的投资风险及本公司所披露的

因素，审慎作出投资决策。



拓荆科技股份有限公司



公告编号：2024-001 拓荆科技股份有限公司科创板上市招股说明书

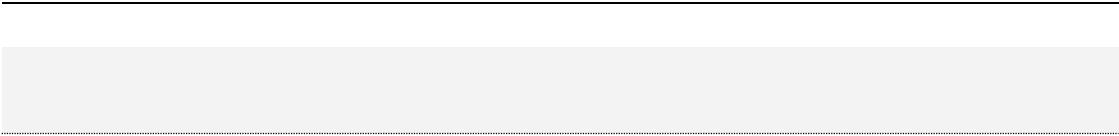
拓荆科技股份有限公司

保

国证证券

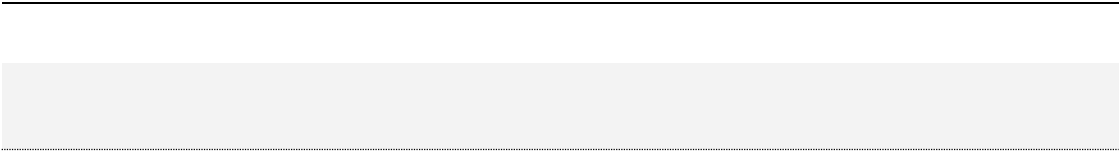
拓荆科技股份有限公司 2024 年 1 月 1 日

拓荆科技





	A
	3,161.980025.00%
	1.00
	2022 4 8
	12,647.8797
	2022 1 4
	2022 3 18
	10% 316.198022,256.7750
	12
	158.0990T-25% 24
	2022 3 29



6-24

3-24

PECVD

ALD

SACVD

PECVD ALD

SACVD

PECVD

PECVD

1-1-4

			77.98%	100.00%	97.55%
88.69%		ALD	SACVD		
	ALD			14nm	
	17nm	DRAM	SACVD		40nm
		ALD	SACVD		
		ALD	SACVD		ALD
SACVD					
	Demo				
		Demo			
	Demo				
		Demo			Demo
			74		
Demo			25	33.78%	
	Demo				

30%

2021

1

	2021 12 31	2020 12 31		
	251,772.82	181,406.91	70,365.91	38.79%
	119,333.76	112,249.87	7,083.89	

	2021 10-12	2020 10-12		2021	2020	
	38,406.52	27,232.88	41.03%	75,796.09	43,562.77	73.99%
	1.58	4,454.92	-99.96%	5,628.70	-1,375.68	-
	999.58	4,459.13	-77.58%	6,737.85	-1,169.99	-
	987.86	4,459.13	-77.85%	6,692.73	-1,169.99	-
	1,052.27	4,480.22	-76.51%	6,848.65	-1,148.90	-
	-5,894.98	1,176.03	-	-8,200.19	-5,711.62	-
	21,345.33	41,969.59	-49.14%	13,748.06	30,891.27	-55.50%

2021 2020 11,173.64
41.03% 2021 2020
32,233.32 73.99%

2021 2020 3,427.95
76.51% 2021 2020
4,464.65 10,851.58

2021 2020 7,997.55

2021
20,624.26 2021 2020
17,143.21

3

2021 15,048.84

2021

15,553.46

2022

2022

0.8212%

5,235.2715

39.6611%

2021 8 6 2021

2021 8 6 2021

0107 2219

2020 4 26

2020 6-7

55%

"

10%

“ ”

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20% 10%



.....	1
.....	2
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.....	3
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.....	22
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5%	
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	164
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.....	304

		317
		318
		318
		321
		322
		324
		325
		326
		327
		328
		329
		330
		331
1		332
2		332
3		334
4		337
5		345

FinFET FinFET		Fin Field-Effect Transistor
Fin		3D FinFET

3D

WLP

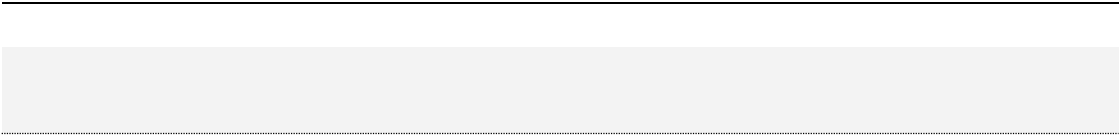
SiP

FC

TSV

2.5D

BSI	BSI		Back Side Illumination	CMOS
-----	-----	--	------------------------	------



	12.45 9 30	2021	-0.60 2020
	A		
	ALD		
	1 100,029.65 100,029.65 4.5% 100,029.65 6% 2 1,188.68 3 613.21 4 518.87 5 13.86 1 2 0.025%		

1		2022 3 29
2		2022 4 1
3		2022 4 7
4		2022 4 8
5		2

	2021.9.30/ 2021 1-9	2020.12.31/ 2020	2019.12.31/ 2019	2018.12.31/ 2018
	34.65%	28.19%	29.58%	152.84%

2

3

œ C] k?±œ®

“ 90-65nm ” “ 1x nm 3D NAND
PECVD ” /

		28/14nm	19/17nm DRAM
64/128	3D NAND FLASH	2.5D	

		30
3		

			2012
			C35
		GB/T4754-2017	
	C3562		2018
		“ 1	
	-1.2	-1.2.1	-
		”	

1

		30,507.37 6,000.00 75,752.32
		40.27% 5%
10%		2021 9 30 189 429 44.06% 10%
		2022 3 8 98 5
		2018 2020 7,064.40 25,125.15 43,562.77 148.32% 20% 4.36 3

2

“		

99		/
		PECVD
		PECVD SACVD



	A
	1.00
	25.00%3,161.9800
	2022 1 4 2022 3 18 316.1980 22,256.7750 10% 12
	T-25% 158.0990 24
	12.45 2021 9 30
	A

	0755-82943121

	29 1-9
	010-88300772
	010-88300793

	20 3 22-31

	010-65881818
	010-65882651

	19 37 305-306
	010-52596085
	010-88019300

	388
	021-68808888
	021-68804868

	188
	021-58708888
	021-58899400

	3 AB
	819589015710001

2021 11 29
688012.SH 160 A 0.000026%

0.0000029%

22.29%

45.00%

26.48%

15.00%

2% 5%

10

5%

4,000

10

20

4%

6,000

20

50

3%

1

50

2%

10

5% 158.0990

2022 1 4

2022 3 18

10% 316.1980

22,256.7750

--	--

	2022 3 8
	SVF025
	22,256.7750
	22,256.7750

1			2,954.7000	13.28%		
2			720.0000	3.23%		
3			1,688.4000	7.59%		
4			2,427.0750	10.90%		
5			1,336.6500	6.01%		
6			2,356.7250	10.59%		
7			1,055.2500	4.74%		
8			1,231.1250	5.53%		
9			773.8500	3.48%		
10			703.5000	3.16%		
11			703.5000	3.16%		
12			703.5000	3.16%		
13			633.1500	2.84%		
14			422.1000	1.90%		
15			352.0000	1.58%		

16

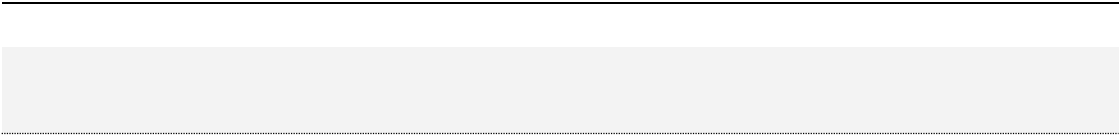
3.16%

18			281.4000	1.26%		
19			281.4000	1.26%		
20			281.4000	1.26%		
21			211.0500	0.95%		
22			211.0500	0.95%		
23			211.0500	0.95%		
24			211.0500	0.95%		
25			201.0000	0.90%		
26			160.0000	0.72%		
27			140.7000	0.63%		
28			140.7000	0.63%		
29			140.7000	0.63%		
30			140.7000	0.63%		
31			140.7000	0.63%		
32			140.7000	0.63%		
33			137.5000	0.62%		
34			130.0000	0.58%		

35

;

1		100%
2		
3		
4	Σ	



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PECVD ALD SACVD

“ ” “ ” “ ”

PECVD ALD SACVD

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Demo

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Demo ”

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33.00% 31.99% 34.12% 45.55%

7,406.55 12,356.92 2018-2020 6,540.84 13,476.81
92.59% 53.64% 17.00%

52,381.17 99,031.84 33,052.11 35,782.99
48.61% 47.61% 41.78% 32.55%

17,016.48 23,503.18 36,746.35 59,321.12
51.48% 65.68% 70.15% 59.90%

-2,175.61	30,891.27	-7,597.27	-12,801.52
-----------	-----------	-----------	------------

Category	2023	2022	Change
Operating Profit	21,344.45	26,997.70	2,475.84
Operating Profit Margin	86.16%	62.97%	37.34%

[illegible]

2020

2018

“ ” “ ” “ ”
”

2020

2021 1 12

2021 6 15

94,858,997

2021 5 21

[2021]7249

2021 5 21

2018

	114,281.27	25,851.77	88,429.50	25,125.15	-661.87
	-7,615.41	-	-7,615.41	-	-896.07
	416.40	-	416.40	-	166.23
	329.42	329.42	-	-	-

2021

1

2020 5 31

-28,126.78

	2021 1-9	2020 6-12	2020 1-5	2019	2018
	5,796.38	2,650.28	-3,799.18	-1,936.64	-10,322.29
	-28,126.78	-	-	-	-
	8,446.65	-25,476.50	-28,126.78	-24,327.60	-22,390.96

4

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5

2020 5 31 1,088,954,920.92

94,858,997.00 1,274,060,433.49 1,303,267.08

-281,267,776.65 94,858,997

1 - 994,095,923.92

[2021]120

		94,858,997.00
		1,274,060,433.49
		1,303,267.08
		-281,267,776.65
		94,858,997.00
	-	994,095,923.92

2018 1 1

			%
1		2,512.1755	35.2959
2		1,729.7297	24.3026
3		780.0765	10.9600
4		600.0000	8.4300
5		297.0297	4.1732
6		282.1782	3.9646
7		180.0180	2.5292
8		162.1622	2.2784
9		123.4290	1.7342
10		99.0099	1.3911
11		78.7500	1.1064
12		62.7900	0.8822
13		50.0000	0.7025
14		28.0000	0.3934
15		25.5000	0.3583

2019 5 0 * / >

2019 5

3.9646%

19 /

2019 5 6

0

f

2019

[2021]116	2020	5	18
2,368.421			9,485.8997

2021 1

“ ” “ ”

2010 4

1

1,000 q b

2014 5

1

2014	5	2,750		272.2772
	3,000		297.0297	1,000
		99.0099	“ ALD	” “ ALD
”	“	”		1,010
	100			

2

ALD

3

2015 7

2

2020.12.31/2020	-	-	-
2021.9.30/2021 1-9	19,091.18	297.31	97.31

2

1

	5,000.00 5000.00
	2020 12 25
	1211 10 304
	100.00%
	" ALD "

2

2020.12.31/2020	-	-	-
2021.9.30/2021 1-9	10,464.88	4,709.90	-290.10

3

1

2020 8 21

2020 9 30

2019	1	1
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2019	5	5
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9

2

2

1

2019 5 6

8

2

2

1

2019	1	1	2021	1	12
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2019	1	1	2021	1	12
------	---	---	------	---	----

2 2021 1 12

2021 1 12

2021 1 12

2021 1 12

9

3

6

2

1

2

2021 1 12

2021 1 12

2019 1 1

5%

1

5%

1

2,512.1755

26.4833%

	9,872,000.00
	2014 9 26 2024 9 25
	2 52 7 718

2

1,729.7297

18.2347%

	1,000,000.00					
	2016	3	4	2024	3	3
	1142 23 4064-31					

3

1,062.2547

11.1982%

	688012.SH					
	GERALD ZHEYAO YIN					
	61,624.4480					

	14,220.00
	2018 8 3 2038 8 2
	1856 1 120 -69

	10,000.00
	2018 6 9 2023 6 8
	5 6 B
	1002 X

5

623.3158

6.5710%

	13,200.00
	2019 10 14 2027 10 14
	519 2710

/

2021 9

24

36

2019 12 18

/

36

2021 3 30

1950 7 16.00

0.1687%

11

78.7500

0.8302%

	88.9125
	2013 10 18 2028 10 17
	900 401

62.7900

0.6619%

	206.0469
	2013 10 21 2028 10 20
	900 417

23.7450

0.2503%

	27.8569
	2013 10 18 2028 10 17
	900 406

16.8850

0.1780%

	20.2423
	2013 10 18 2028 10 17
	900 419

138.0996

1.4558%

	15.1915
	2019 10 9 2034 10 8

138.0546

1.4554%

	15.1862					
	2019	10	9	2034	10	8

138.0416

1.4552%

	15.1848					
	2019	10	9	2034	10	8

138.0205

1.4550%

	15.1824					
	2019	10	9	2034	10	8

“

”

2 5%

“

”

“

”

“

”

9,485.8997

3,161.9800

25.00%

			%
1		2,512.1755	26.4833
2		1,729.7297	18.2347
3		1,062.2547	11.1982
4		701.2105	7.3921
5		623.3158	6.5710

			%
2	SS	297.0297	3.13
3	SS	99.0099	1.04
4	CS	300.00	3.16
		3,208.2151	33.81

2

			%
1		123.4290	1.3012
2		50.00	0.5271
3		28.00	0.2952

	/	%	
		0.2688	
		0.1687	
		0.1581	
		0.1845	
		0.1845	

	/	%	
5		11.1982	
		0.8212	

1“”

“”

2

9

			%
1		2,512.18	26.4833
2		1,729.73	18.2347
3		701.2105	7.3921
4		623.3158	6.5710
5		297.0297	3.1313
6		180.018	1.8977
7		162.1622	1.7095
8		150.00	1.5813
9		150.00	1.5813

3

20191216

SJJ396

2015122

P1028590

2019 12

“ ”

2019

12 31

1

2021 1

1985

2011 8

2019 11

2019 11 2021 1

2021 1

1974

1998 10 2010 4

2010

4

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1

2011 3

1963

A&M

1984 8

2018 10

A&M
Ecovoltz Inc.

Nonometrics Inc. Mattson Technology, Inc. Nonometrics Inc.

2018 11

1971

1993 5 2010 4

2010 4

1968

EMBA

1992 12 2009

9

2010 4

1983

2009 3 2019 11

2019 12

4

2			" 1x nm 3D NAND PECVD " " " " " " A ALD " " A " / ALD SACVD
3			" A ALD " " B PECVD " " A " / SACVD
4			12 PECVD PF-300T " A ALD " PECVD
5			
6			HTM PECVD 12 ACHM PECVD "
7			B PECVD

--	--	--	--	--

--	--	--	--	--

2019 1 1

9

2019 4 3

2019 11 21

2020 5 29

2021 1 8

2014 5 2020

5

			/		
			66,600.00	3.23%	60,000
			200,000.00	1.33%	
			6,200,266	1.01%	
		Grenade Pte. Ltd.	174,277		
		Futago Pte. Ltd.	6,875		
			36,300.00	23.91%	330,000
			44,400.00	4.99%	40,000

/

	/					
		1,234,290	983,900	2,218,190	2.3384%	883,900

446

1

	2021 1-9	2020	2019	2018
	696.66	1,350.10	980.84	884.00
	5,738.27	-1,169.99	-1,936.64	-10,322.29
	12.14%	-	-	-

2

2020

			2020
10			173.22

11

1			500,000	655,000	1,155,000
2			-	883,900	883,900
3			280,000	140,000	420,000
4			255,000	150,000	405,000
5			175,000	175,000	350,000
6			.52 80.78		

2

11

11 “ ”

3

	2020 4
	/

1,326,020

1

2

192.96 198.25

692.92 72.76

3

1

	2021.9.30	2020.12.31	2019.12.31	2018.12.31
	429	316	273	278

2

2021 9 30 429

	189	44.06%
	129	30.07%
	36	8.39%

	10	2.33%
	41	9.56%
	14	3.26%
	10	2.33%
	429	100.00%

3

2021 9 30

	135	31.47%
	201	46.85%
	85	19.81%
	8	1.86%
	429	100.00%

4

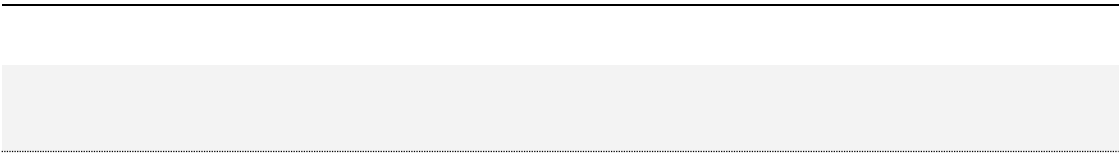
2021 9 30

51	16	3.73%
41 50	41	9.56%
31 40	166	38.69%
30	206	48.02%
	429	100.00%

1

	2021.9.30	2020.12.31	2019.12.31	2018.12.31

/%



1

ALD

14nm

SACVD

PECVD

10nm

28/14nm

19/17nm DRAM

6

3D

90nm CMOS

40

3nm FinFET

100

6

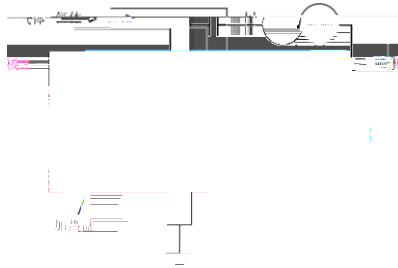
20

1 PECVD

PECVD

CVD

PECVD



PECVD

180-14nm

19/17nm DRAM

64/128

FLASH

SiO₂

SiN

SiON

BPSG

PSG

TEOS

Lok

Lok

ACHM

ADC

2018

PECVD

2020

PECVD

PECVD

			/
12 PECVD PF-300T		PF-300T 28nm FLASH DRAM TSV OLED SiO ₂ SiN SiON BPSG PSG TEOS Lok Lok ACHM ADC	
12 PECVD PF-300T eX		PF-300T eX 14nm-28nm FLASH DRAM SiO ₂ SiN SiON BPSG PSG TEOS Lok Lok ACHM ADC	
12 PECVD PF-300T pX		PF-300T pX 10nm	
8 PECVD PF-200T		PF-200T 90nm 3D TSV SiO ₂ SiN SiON TEOS 12 PECVD	

NF-300H

12 HTM
PECVD
NF-300H

19nm

32-128
DRAM

3D NAND FLASH
NF

			/

12
PEALD
FT-300T

FT-300T PE
28-14nm
SADP STI Liner
55-40nm BSI 2.5D 3D
TSV FT-300T



			/
12 SACVD SA-300T		SA-300T STI ILD BPSG SAF	40-28nm
8 SACVD SA-200T		SA-200T STI ILD BPSG SAF	90nm

3

	2021 1-9		2020		2019		2018	
PECVD	32,2[16	88.69%	41,824.53	97.55%	24,772.45	100%	5,170.28	77.98%
ALD	0.00	0.00%	184.48	0.43%	0.00	0.00%	1,459.58	22.02%
SACVD	4,115.89	11.31%	867.26	2.02%	0.00	0.00%	0.00	0.00%
	36,399.05	100%	42,876.27	100%	24,772.45	100%	6,629.86	100%

PECVD

“ ” “

” “ ”

Global fundamental limited

“

” “ ” “ 3

” “ 1 ” “

Global fundamental limited ”

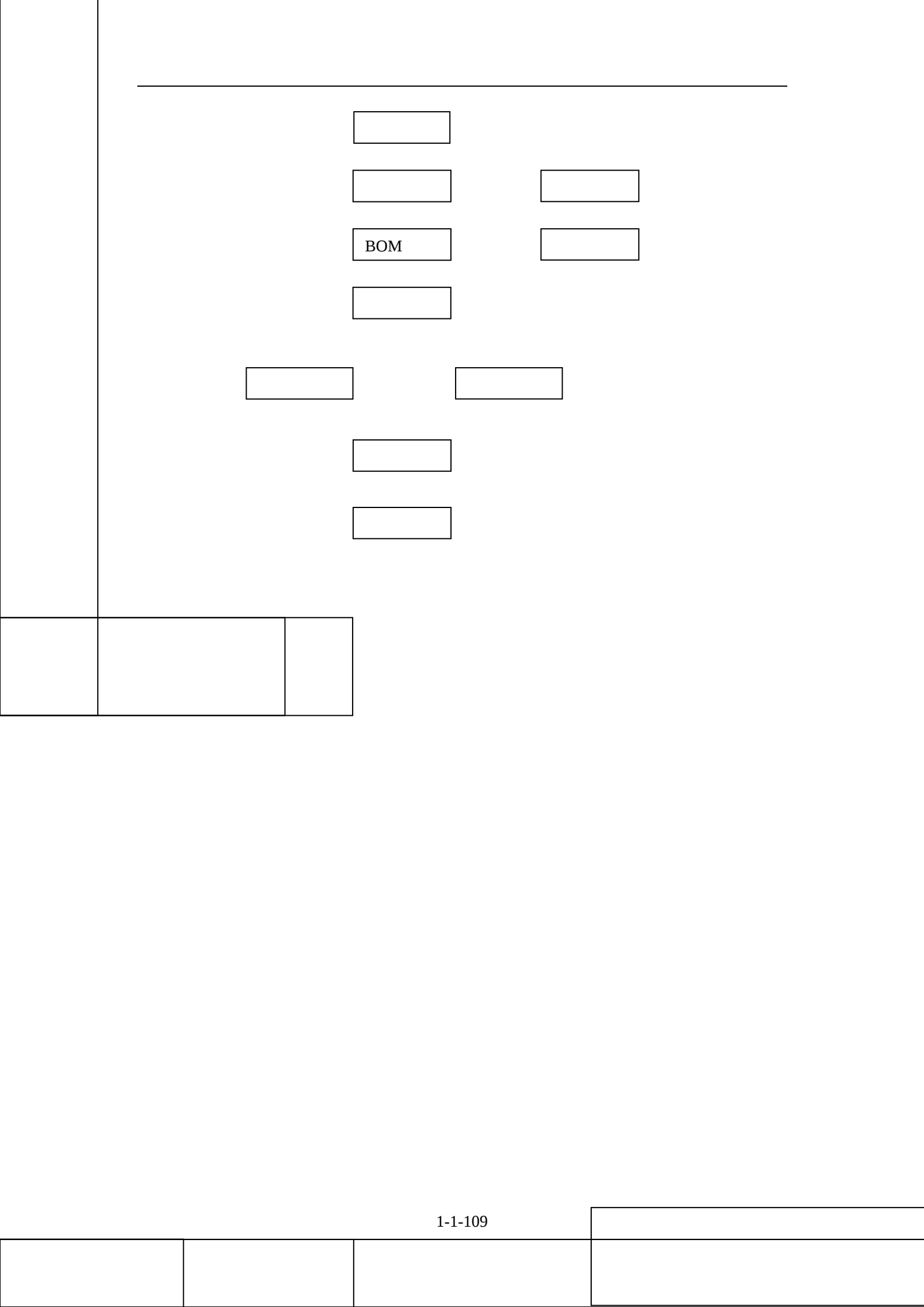
“

” “ ” “ ”

“ 5 ”

2010





BOM

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ISO14000

2012

C35

GB/T4754-2017

C3562

2018

1

			25% “ ”
“ ”	2017		

3

1

1

integrated circuit 80%

t %

Gartner

SIA 2020

2019

62.50%

35.00%

19.10%

9.70% 8.70%

EDA

Қ ғ 6 @

2010

1-2%

4

5G

Gartner 2022

5,426.40

2020

Strategy Analytics

2022

2023

2

1

80%

SEMI

28nm

14nm

IDM

2020

213

17.5%

5%

1-2%

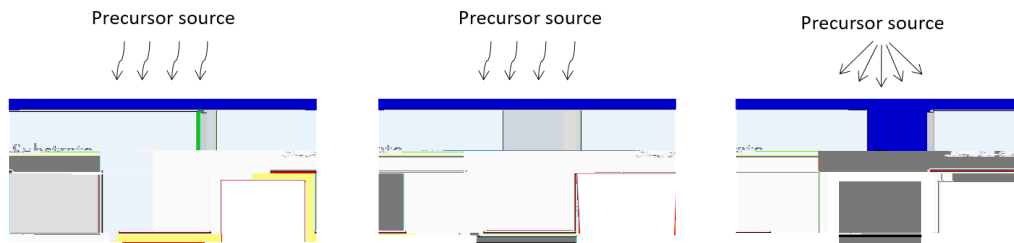
DRAM

PVD CVD ALD

ALD

CVD

PVD



Characterization of Atomic Layer Deposited Thin Films: Conformality in High Aspect Ratio Pores and the Electrical Properties

CVD

t a Ñ

fill

ALD

ALD

CVD

ALD

ALD

28nm

28nm

FinFET

Fin

Fin

SADP

Self-Aligned Double Patterning

SADP



ALD

Spacer

Fin

ALD

k

STI

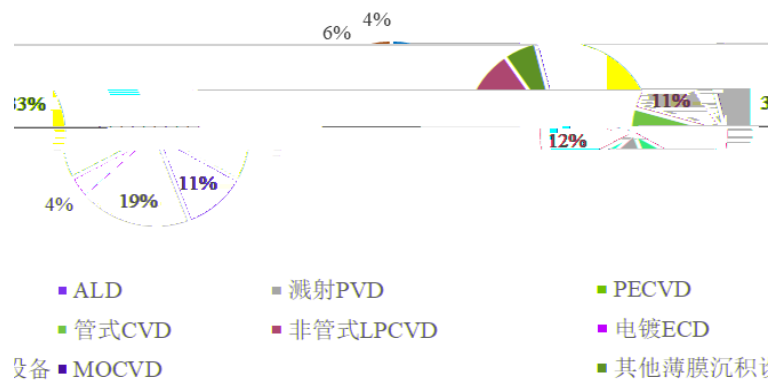
BSI

CMOS

TSV

2

	Maximize Market Research		2017-2019	
	125	145	105	2020
172		11.2%		

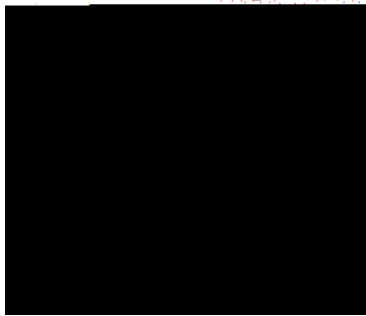


Gartner

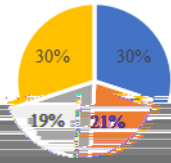
ALD

Acumen

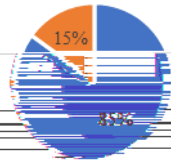
research and consulting



全球CVD设备市场占比



全球PVD设备市场占比



Gartner

3

Maximize Market Research

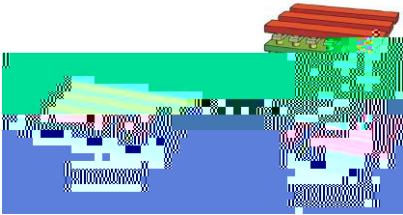
2025 2020 172 340

13.3%

		/
180nm 8	CVD	9.9
	PVD	4.8
90nm 12	CVD	42
	PVD	24

FLASH		2D NAND	3D
NAND			
	FLASH	2D	18%
3D	26%	3D NAND FLASH	

2D NAND 3D NAND



SEMI

1 PECVD

PECVD

3D

PECVD

16

PECVD

SiO ₂ PECVD		/ Inter Layer Dielectric,Inter Metal Dielectric	130-28nm
		Passivation Layer	14nm
		Etch hardmask	10nm

SiN

			2.5D 3D
SiON PECVD	DRAM FLASH	DARC Dielectric anti-reflective coating layer	130-28nm 64 FLASH 14nm 128 FLASH 19/17nm DRAM

BPSG
PECVD

/

NAND PECVD			
TFLITE	LED	Dielectric / Passivation	4/6
		Patterned Sapphire Substrate Hard Mask/Optical film	

2 ALD

ALD

PE-ALD

Thermal -ALD

SiO ₂ PE-ALD		SADP STI liner	28-14
		TSV	2.5D 3D
	CMOS	BSI	-

3 SACVD

SACVD

SACVD

BPSG SACVD			130-90nm
	DRAM		19/17
SAF SACVD			65-28nm 130nm
SA TEOS SACVD		SAB CAP SMT CAP	40-28nm 130nm

1

2016

2017 2019

“ ”

PECVD SACVD

AMAT

Lam

TEL

ASMI

2019-2020

PECVD

16.65%

2020

2020

2

AMAT

/

Lam

TEL

ASMI

1

AMAT

1967

AMAT

AMAT

LED

15,700

2

	Lam				
AMAT		ASML	ASML Holding N.V.		
					8,200
3	TEL				
	1963				8035.TYO
	TEL				
	TEL		11,000		
4	ASMI				
	1968				
			ASM		
	ALD			PEALD	
	ASMI				
	3%				
	29%		TEL	31%	ASMI
	2,500				
3					
	PECVD	ALD	SACVD		
	AMAT		Lam		TEL
ASMI					

	2018	167.05	45.00%	30.38
	2019	146.08	43.72%	27.06

2020

MTTR	

1

1

18944.06%

2

202238174

153219877

21

“ 90-65nm”

“ 1x nm 3D NAND PECVD”4/

PECVDALDSACVD

2

1

1

2

7

NAND

3D NAND

32/64

128/196

3

2010

2020

19.91%

2

1

2

1

	2020	2019	2018
	54.33%	45.61%	57.07%
	83.36%	87.33%	92.49%
	85.71%	94.06%	99.09%
	70.76%	73.63%	77.30%
	83.78%	84.02%	100.00%

	2011			
	12	PECVD	2018	2020
	2013			2020
		2014		
		PF-300T		

2016

“ 90-65nm

”

2017

Global fundamental limited

2017

2017 11

“

”

“

”

“

”

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1

”

2

			2021 1-9	2020	2019	2018
			1,393.81	821.20	307.05	87.30

9		

2018

2019

2018

2

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2021

ONON

2

PECVD

ALD

SACVD

6

18

EFEM

4

PECVD ALD

10

5

6

IC

SACVD

7

ALD

3D NAND

PECVD

8

	2021 1-9	2020	2019	2018	
--	----------	------	------	------	--

1

1		-6	CC1-150	2011

6	A	-	-	-	-	-
7	B	-	-	-	-	-

1
PECVD

40nm	40nm Lok Lok ACHM PECVD ADC				1,538
28nm-14nm	28nm-14nm SiO₂ SiN TEOS DARC HTN				

					994

TF-Lite

1

	2021 1-9	2020	2019	2018
	12,955.63	12,278.18	7,431.87	10,797.31
	37,389.57	43,562.77	25,125.15	7,064.40
	34.65%	28.19%	29.58%	152.84%

--	--	--	--	--	--

4

ALD A

3

2

10

28

128

3D NAND

1Y DRAM

LED

TSV

2.5D-IC 3D-IC

	14,107.99	3,185.65	-	10,922.33	77.42%
	8,331.99	3,414.35	-	4,917.65	59.02%
	22,439.98	6,600.00	-	15,839.98	70.59%

1

900

38,065.39

“ 1 ”

2

	1	37,031,114.33	23,838,779.84	64.37%
	1	20,142,310.26	12,966,612.22	64.37%

24

“ 2

”

1

2022 3 8

1	900		2015 011	52,107.19			2064.11.17	

2

4

2022 3 8

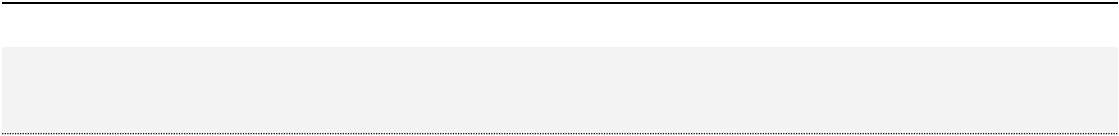
5

1		sypiotech.cn	2010.03.04-2023.03.04
2		.cn	2015.09.30-2025.09.30
3		.com	2015.09.30-2025.09.30

GR202121001035

2021 12 14
2016 32

SEMI S2



9

1

3

2

3

18

2

2

2022 3 8

4

1

2021 1 8

2

2021 1 8

3

2021 1 8

2022 3 8

1

SAP PLM OA

2020 7

t 1

5%

“ ” “ 5
” “ ”

36

1 5%

5%

1		26.48%
---	--	--------

3		11.20%
4		7.39% 8.97%
5		8.97% 1.58%
6		6.57%
7		15.1920%

5%

5%

2

5%

2021 12 31

5%

1		100.00%
2		100.00%
3		100.00%
4		100.00%
5		100.00%
6		100.00%
7		100.00%
8		100.00%
9	AMEC North America, Inc.	100.00%
10	AMEC Japan Co., Inc.	100.00%
11	Advanced Micro-Fabrication Equipment Korea Ltd.	100.00%
12	Advanced Micro-Fabrication Equipment International Pte. Ltd.	100.00%

4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

6

	/	
1		2021 1 8 2021 11 24
2		2021 1 8 2021 4 8
3		2017 9 6 2021 1 7
4		2017 1 1 2021 1 7
5		2017 1 1 2021 1 7
6		2017 9 6 2021 1 7
7		2017 1 1 2021 1 7
8		2017 4 13 2021 1 7
9		2017 1 1 2019 11 21

	/	
34		
35	Solayer GmbH	
36		2019 10
37		
38		2021 9
39		2001 2022 5 3 8
40		
41		
42		2021 4
43		
44		2020 1
45		2020 3
46		2019 12
47		2019 12 2019 12
48		2019 12 2018 11
49		2019 11
50		2019 2021 9 11 17
51		2018 11 21
52		2019 11
53		2017 3

	/	
57		2021 1
58		
59		
60		
61		2021 10 15
62		2021 6

63

	/	
80		2018 3
81		2018 5
82		2018 5
83		2018 6
84		2017 5
85		90.00%
86		
87		2017 9 8
88		2021 6 22
89		

90

1		20.00%
2		99.70%
3		8.97%
4		
5		98.00%

		2021 1-9	2020	2019	2018
		37,389.57	43,562.77	25,125.15	7,064.40
			0.08%	3.56%	1.00%

0.00
 2019

70.47 895.55 33.98
 1.00% 3.56% 0.08% 0.00%

		2021 1-9	2020	2019	2018
		1,393.81	821.20	307.05	87.30
		25.13	67.02	20.62	10.75
		73.98	191.68	21.32	38.10
		101.95	135.56	149.76	89.88
			38.12	38.12	119.13
		110.49	157.44	52.36	
		7.35	42.83		
		1.60	3.20		
		1,714.31	1,457.06	589.22	345.16
		20,271.00	28,725.47	17,122.39	4,827.04
		8.46%	5.07%	3.44%	7.15%

345.16

589.22 1,457.06 1,714.31

7.15%

3.44% 5.07% 8.46%

2021 1-9

SAP PLM OA

SAP

SAP

2017

2020

		2021 1-9	2020	2019	2018
				6.87	
				6.87	
		37,389.57	43,562.77	25,125.15	7,064.40
				0.03%	

2019

6.87

0.03%

2

		2021 1-9	2020	2019	2018
					22.22
					0.27
					22.50
		20,271.00	28,725.47	17,122.39	4,827.04
					0.47%

2018

22.50

0.47%

2018

2018

3

4

5

“

”

“

”

“

”

3

1		2018-2020	955.81	
2		2018	44.20	
3			2,609.36	
4			123.52	
5			325.08	
6			477.15	
7		2018-2020	195.38	SAP PLM OA
8		2019-2020 2021 1-9	320.29	
9		2020 2021 1-9	50.18	
10		2020 2021 1-9	4.80	
11			3,968.22	
12		2019	6.87	
13		2018	22.22	

14

5

5%

“ ” “

5 ” “ ”

2021 5 21

2018 2019 2020

2021 1-3 2021 6 15 2020

2018 2019 2020

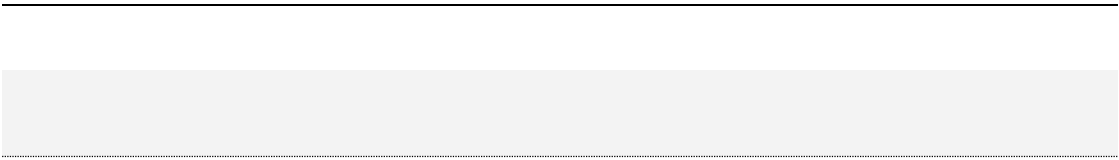
2021 1-3

2021 5 21 2020

2021 2021 6 15

2020 2021 1-9

“ 2018 2019



[2022]8

688037.SH

688082.SH

688012.SH

A20569.SH

	2021 9 30	2020 12 31	2019 12 31	2018 12 31
	2,036,851,077.21	1,609,043,018.11	856,558,704.83	694,256,886.02

2021
9

	2021 1-9	2020	2019	2018
“ ”	-12,968.60	-4,771.48	-	-7,390.19
“ - ”	56,271,209.47	-13,756,822.62	-19,375,256.02	-103,228,232.85
	1,111,524.30	2,072,507.32	39,404.58	5,347.47
	-	15,628.92	30,596.80	-
“ - ”	57,382,733.77	-11,699,944.22	-19,366,448.24	-103,222,885.38
	333,999.92		-	-
“ - ”	57,048,733.85	-11,699,944.22	-19,366,448.24	-103,222,885.38

57,963,780.88

“ - ”

	2021 1-9	2020	2019	2018
	2,200,766.10	2,570,145.66	1,838,195.92	40,011,866.33
	68,748,599.67	266,527,927.41	52,444,955.35	58,821,309.89
	785,578,382.10	909,461,629.80	273,044,388.39	213,339,166.00
	686,685,832.40	449,693,393.12	197,726,377.65	236,470,097.26
	91,135,201.95	72,577,425.41	64,185,926.06	59,785,822.15
	23,491,670.02	16,001,266.45	2,142,907.11	4,148,143.14
	60,238,425.78	62,276,839.83	30,745,230.35	40,950,269.79
	861,551,130.15	600,548,924.81	294,800,441.17	341,354,332.34
	-75,972,748.05	308,912,704.99	-21,756,052.78	-128,015,166.34
	-	-	-	-
	-	-	-	-
	1,150.00	467,983.21	-	1,896.55
	-	-	-	2,854,143.82
	1,150.00	467,983.21	-	2,856,040.37
	104,273,447.26	6,310,245.86	14,374,680.43	5,565,720.23
	-	-	-	-
	-	-	-	-

	2021 1-9	2020	2019	20
	104,273,447.26	6,310,245.86	14,374,680.43	5
	-104,272,297.26	-5,842,262.65	-14,374,680.43	-2
	-	313,000,002.00	137,499,998.00	
	-	-	15,320,668.36	33
	-	-	12,580,000.00	
	-	313,000,002.00	165,400,666.36	33
	-	-	45,584,783.87	76
	-	-	638,090.78	2

- -

	2021 9 30	2020 12 31	2019 12 31	2018 12 31
	719,310,598.80	948,649,686.56	362,168,782.00	275,452,133.79
	3,500,000.00	-	400,000.00	-
	123,000,449.23	73,822,594.48	131,388,588.66	62,719,948.71
	43,080,636.68	3,681,029.76	2,077,991.38	2,782,662.47
	58,436,685.59	2,864,502.56	3,069,298.49	14,994,004.70
	973,696,056.95	512,080,385.24	349,976,861.13	322,327,688.24
			-	-
			-	-
			7,477,183.17	15,980,448.11

	2021 9 30	2020 12 31	2019 12 31	2018 12 31
	260,389,983.33	122,425,061.53	82,393,615.66	60,930,817.87
	-	-	56,002,078.20	46,842,000.00
	447,122,775.69	134,257,091.68	-	-
	15,024,039.53	21,832,003.79	11,081,991.19	6,716,786.32
	2,340,656.33	4,984,034.69	2,198,791.25	1,801,265.25
	44,246.50	330,566.11	13,206,424.83	178,757.43
	57,985,782.05	17,453,421.92	-	-
	903,774,138.18	392,868,364.20	201,112,124.91	175,801,958.00
	-	-	-	350,985.49
	30,231,880.67	27,619,567.44	12,504,894.76	3,844,737.99
	171,200,624.13	222,523,281.43	46,230,297.49	52,294,434.29
	201,432,504.80	250,142,848.87	58,735,192.25	56,490,157.77
	1,105,206,642.98	643,011,213.07	259,847,317.16	232,292,115.77
	94,858,997.00	94,858,997.00	78,411,628.50	71,174,787.00
	1,001,575,585.12	1,280,812,453.49	977,830,688.99	845,585,030.67
	-	1,303,267.08	1,303,267.08	1,303,267.08
	88,773,429.13	-254,151,761.52	-243,276,027.54	-223,909,579.30
	1,185,208,011.25	1,122,822,956.05	814,269,557.03	694,153,505.45
	2,290,414,654.23	1,765,834,169.12	1,074,116,874.19	926,445,621.22

	2021 1-9	2020	2019	2018
	364,537,628.71	437,467,676.17	251,251,546.85	70,644,026.75
	203,348,749.77	288,932,379.60	171,223,934.80	48,270,366.35
	4,397,427.86	2,183,961.84	2,195,898.70	2,110,727.48

	2021 1-9	2020	2019	2018
	44,226,625.03	66,354,085.59	46,976,512.91	40,257,517.58
	22,433,663.12	27,750,314.24	21,442,074.96	22,504,724.76
	121,923,765.23	120,164,551.48	74,318,715.86	107,973,139.03
	-15,028,130.17	-10,356,614.01	-3,314,987.71	-3,163,711.40
	77,981,665.47	48,915,306.00	43,328,955.34	46,970,517.70
“ ”	-1,716,740.90	-5,209,649.49	-148,999.15	

	2021 1-9	2020	2019	2018
	84,489,040.08	72,153,895.09	64,185,926.06	59,785,822.15
	22,505,242.49	16,000,516.45	2,142,907.11	4,148,143.14
	57,463,573.71	62,053,475.89	30,745,230.35	40,950,269.79
	846,414,785.95	599,906,608.37	294,800,441.17	341,354,332.34
	-63,117,752.40	259,552,425.77	-21,756,052.78	-128,015,166.34
	-	-	-	-
	-	-	-	-
	1,150.00	467,983.21	-	1,896.55
	5,860.42	-	-	2,854,143.82
	7,010.42	467,983.21	-	2,856,040.37
	41,256,493.30	6,297,770.73	14,374,680.43	5,565,720.23
	52,000,000.00	5,500,000.00	-	-
	55,000,000.00	-	-	-
	148,256,493.30	11,797,770.73	14,374,680.43	5,565,720.23
	-148,249,482.88	-11,329,787.52	-14,374,680.43	-2,709,679.86
	-	312,500,002.00	137,499,998.00	-

	2021 1-9	2020	2019	2018
	-	-	15,320,668.36	33,324,791.81
	-	-	12,580,000.00	-

					2018	2019
2020	2021	1-9				
1						
					7,064.40	25,125.15
43,562.77	37,389.57	2019	2020			
255.66%		73.38%				
1	2018	2019				
2	2020	2021	1-9			

2

		33,052.11	35,782.99
52,381.17	99,031.84	819.34	

2014

3

		2	55%	2020 30	9
		2	100%	2020 11	12

—		12

a

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	%
3-4	30.00
4-5	50.00
5	100.00

2 2018

1

	200	10%

2

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2

3

4

2

			%	%
		20	5	4.75
		3-5	5	31.67-19.00
		5-10	5	19.00-9.50
		4	5	23.75

1

2

	50	
	10	
	5-10	

1 2020 2021 1-9

1

17-01-2019

2 2018 2019

1

a

b

c

d

e

2

2019 1 1

2019 1 1

	2018 12 31		2019 1 1
	275,452,133.79	4,642,800.00	280,094,933.79
	14,994,004.70	-4,642,800.00	10,351,204.70
	30,156,652.33	43,826.43	30,200,478.76
	178,757.43	-43,826.43	134,931.00

2

2020 1 1

14

2020 1 1

2020 1 1

	2019 12 31		2020 1 1
	131,388,588.66	-14,093,432.41	117,295,156.25
	-	13,557,842.41	13,557,842.41
	-	535,590.00	535,590.00
	56,002,078.20	-56,002,078.20	-
	-	49,384,832.58	49,384,832.58
	-	6,617,245.62	6,617,245.62

2

1

[2008]43

[2022]11

	2021 1-9	2020	2019	2018
	-1.30	-1.95	-2.06	-0.74
	8,184.57	5,096.14	4,326.27	4,691.53
	52.49	-	-	-

		17% 16% 13%	1
		25% 15%	2
		7%	

	2021 9 30 /2021 1-9	2020 12 31 /2020	2019 12 31 /2019	2018 12 31 /2018
	2.23	4.09	4.26	3.95
	1.16	2.79	2.52	2.12
	48.25%	36.41%	24.19%	25.07%
	49.67%	38.12%	24.19%	25.07%
	3.78	4.17	2.51	1.22
	0.27	0.65	0.50	0.17
	5,532.71	-602.35	-594.74	-9,023.10
	5,796.38	-1,148.90	-1,936.64	-10,322.29
	-2,305.21	-5,711.62	-6,246.63	-14,993.05
	34.65%	28.19%	29.58%	152.84%
/	-0.80	3.26	-0.28	-1.80

2 2021 1-9

2

3

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SEMI

2014

375

2020

SEMI	2020	187.2
39%		

1

148.32%

2

33.00% 31.99% 34.12% 45.55%

3

152.84% 29.58% 28.19% 34.65%

1

11.28% 2020
39%

187.2

PECVD

ACHM Lok

PECVD ALD SACVD

2

2018 2020

1

	2021 1-9		2020		2019		2018	
	36,399.05	97.35%	42,876.27	98.42%	24,772.45	98.60%	6,629.86	93.85%
	990.52	2.65%	686.50	1.58%	352.70	1.40%	434.55	6.15%
	37,389.57				25,125.15		7,064.40	

		PECVD				
12	PECVD	PF-300T	8	PECVD	PF-200T	PF-300T
	28nm		FLASH	DRAM		PF-200T
	90nm			3D TSV		
		1	TM		PM	PM
1-3	PM		í	Ť		Ť

2021	1-9	PF-300T	2020	20.45%	2021	1-9
		Lok	PF-300T	ex		

2019	PF-200T	2018	34.54%
2018	1 PF-200T		PF-200T
	2021 1-9		,
	2020	14.27%	PF-200T

PECVD

1

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4

2019

DRAM

2020

4

2021 1 9

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	2021 1-9	2020	2019	2018
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		2020	2019	2018
		21.52%	26.38%	26.06%
		27.03%	36.92%	21.47%
		37.66%	23.67%	45.57%
		100%	100%	100%
		7.08%	0.34%	0.71%
		8.55%	16.36%	35.76%
		23.13%	31.02%	0.59%
		61.24%	52.27%	62.94%
		100%	100%	100%
		10.40%	9.38%	4.83%
		17.84%	22.79%	25.35%
		29.38%	25.70%	19.84%
		42.38%	42.13%	49.97%
		100%	100%	100%

2020

7

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	2021	1-9	2020		2019		2018	
	19,818.68	97.77%	28,249.02		16,846.58	98.39%	4,442.10	92.03%
	452.32	2.23%	476.45	1.66%	275.81	1.61%	384.94	7.97%

	2021	1-9	2020		2019		2018	
	18,723.81	94.48%	25,531.29	90.38%	15,290.75	90.76%	3,939.76	88.69%
	232.32	1.17%	603.01	2.13%	321.78	1.91%	160.60	3.62%
	862.55	4.35%	2,114.72	7.49%	1,234.06	7.33%	341.73	7.69%
	19,818.68	100%	28,249.02	100%	16,846.58	100%	4,442.10	100%

14,627.25

16,580.36

2019

~

2021

	ALD	ICRD
2020	ALD	

2021

		2021	1-9	2020	2019	2018

2021 1-9	2,761.96	1,819.95	1,047.16	3,534.75
2020	1,250.49	2,143.81	632.35	2,761.96
2019	384.47	1,238.62	372.61	1,250.49
2018	517.82	331.49	464.84	384.47

5,533.87

2,516.96

	2016 2018 3%-5% 2019 2020
	2%

2020 2021 1-9

2019 2018 41.86 25.96%
2020 2019

2018 5
2018 8
2019 2018

2018
2018
1,014.90

“ ” “ ”

	2021	1-9	2020	2019	2018
		10.14%	10.41%	10.12%	13.21%
		9.26%	11.34%	9.67%	8.23%

	2021 1-9		2020		2019		2018	
	1,480.11	63.04%	1,589.06	56.89%	1,417.02			

	2021 1-9		2020		2019		2018	
	4,645.45	35.86%	3,806.90	31.01%	2,651.82	35.68%	4,981.58	46.14%
	3,673.06	28.35%	3,694.03	30.09%	2,701.16	36.35%	2,310.11	21.40%
	3,463.12	26.73%	3,221.07	26.23%	662.35	8.91%	1,657.75	15.35%
	626.40	4.83%	909.87	7.41%	862.53	11.61%	1,022.15	9.47%
	329.91	2.55%	243.25	1.98%	282.69	3.80%	313.76	2.91%

				ICRD	
		2018	2020	ICRD	
			2021	1-9	
				2018	2020
2021	1-9				
		2019	2018	15.62%	2020
2019	5.49%				

	2021	1-9	2020	2019	2018
ALD	1,196.83		888.52	770.99	1,476.79
40nm	19.36		646.74	97.21	300.16
ALDHTM SiO ₂	851.15		613.16	-	-
	1,110.22		353.00	64.98	1.90
	119.62		188.59		
TF-Lite	78.71		125.26	17.29	-

282.54 27.24 reW*BT8575.

2020

2019
2018

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SAP

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	2021 1-9	2020	2019	2018
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	2021 1-9	2020	2019	2018	
“ ”	-	-	9.56	69.19	
“ ”	2.85	4.23	3.93	0.12	
	0.35	52.91	7.78	7.78	
	-		164.40	17.51	
	-	24.50	-	-	
	-	50.00	-	-	

2021	1-9	2020	2019
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			2018	2019
		68.92	35.70	2019
11	6			

	2021 1-9	2020	2019	2018
	21.85	33.00	114.49	110.16
	17.10	452.16	6.99	13.86
	32.71	207.76	68.28	67.37
	1.10	-	8.49	1.57
	72.76	692.92	198.25	192.96

2019		929.98	2018	2020
	2019	2018		2020
	2019	928.65		
	19			

2				
	2020	5	31	
2020	6		2020	
		2019		
	2020	12	31	
2021	3630			

	/	
2014	10.10	2015 3295
2015	11.11	2015 3695

	/	
2016	18.50	2017 3411
2017	18.50	2017 3411
2018	19.00	2018 3695
2019	19.00	2019 3500
2020 1-5	19.00	2019 3500
2020 6-12	24.50	2021 3630
2021 1-9	24.50	2021 3630

1

2018

2019 1 1

288.26 14.90 520.96

177.19

2

2019 1 1

0.00 96.46 -94.56 -159.28

3

	2021 1-9	2020	2019	2018
	111.15	207.25	3.94	0.53

	2021 1-9	2020	2019	2018
	-	1.56	3.06	-

2020

2020 5

2019 12

623.3158

1.44 1 0 C8>500<07A141D1

2021 40

2024 80 2024

4

	2021 1-9	2020 1-9		
	5,738.27	-5,629.12	11,367.39	-
	5,704.87	-5,629.12	11,333.99	-
	5,796.38	-5,629.12	11,425.49	-
	-2,305.21	-6,887.65	4,582.44	-

2018

4

5,046.31

	2021 9 30	2020 12 31	2019 12 31	2018 12 31
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5,660.35

6,274.73 6,619.72 20,612.37

c

	2021	2020	2019	2018
	9 30	12 31	12 31	12 31
	1,181.67	1,164.17		

2018	579.32	284.53	44.51	819.34
2019	819.34	14.90	48.93	785.31
2020	785.31	521.14	142.28	1,164.17
2021 1-9	1,164.17	169.67	152.17	1,181.67

100%

b

2020 TFLITE 8.96 2021
9 1.65

Demo

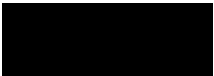
Demo

Demo

4

2021
9 30

2020
12 31



	2021		2020		2019		2018	
	9	30	12	31	12	31	12	31
1-2	46.12	6.92	14.44	2.17	12.05	1.81	105.13	15.77
2-3	6.67	1.33	6.68	1.34	105.03	21.01	0.64	0.13
3-4	0.02	0.00	105.00	31.50	0.20	0.06	1.18	0.35
4-5	-							

	2021		2020		2019		2018	
	9	30	12	31	12	31	12	31
3	-	0.00%	-	0.00%	-	0.00%	-	0.00%

2021
9

	2021 9 30		2020 12 31		2019 12 31		2018 12 31	
	15,839.98	100.00%	16,469.53	100.00%	17,783.09	100.00%	19,101.81	100.00%

98.79% 98.98% 98.66% 97.81%

a

	2021 9 30	2020 12 31	2019 12 31	2018 12 31
	14,107.99	14,090.19	14,090.19	14,090.19
	789.93	654.40	535.22	466.66
	7,400.03	7,158.61	7,200.19	7,083.50
	142.03	90.80	106.32	106.32
	22,439.98	21,993.99	21,931.91	21,746.67
	3,185.65	2,680.88	2,007.85	1,338.57
	495.60	444.18	376.78	270.99

2021 1-9

10,039.34

b

				%
			20	5
			3-7	0-5

				%
			5	3
			5	3
			4	3
			20	5
			3-5	5

5-10

	2019		2018	69.38%
	2018	19,110.23	2019	20,194.48
2019		2018		

	2021 9 30	2020 12 31	2019 12 31	2018 12 31
	252.44	-	-	-
	173.62	-	-	-
	33.01	482.25	194.39	159.93
	11.79	11.82	11.74	11.79
	5.21	5.21	5.21	5.21
	11.39	6.59	8.54	3.19
	487.45	505.88	219.88	180.13

7

17.88 1,320.64 34.09
4.78 2019 2019
1,258.00 2020

8

2020 2021 9 1,745.34
5,786.69 2020
2021 9 13%

3

	2021 9 30		2020 12 31		2019 12 31		2018 12 31	
	-	0.00%	-	0.00%	-	0.00%	35.10	0.62%
	89.50	0.35%						

1

2018-2020

2

	2021 9 30	2020 12 31	2019 12 31	2018 12 31
	21,623.11	27,040.47	4,623.03	5,262.44
	-	-	-	-33.00
	21,623.11	27,040.47	4,623.03	5,229.44

	2021 9 30	2020 12 31	2019 12 31	2018 12 31	
A	6,041.18				

	2021 9 30	2020 12 31	2019 12 31	2018 12 31	
“ ”	62.50	70.82	-	-	
	31.62	36.03	41.94	52.04	
	20.00	-	-	-	
	18.53	-	-	-	

“ ”

		2021 9 30	2020 12 31	2019 12 31	2018 12 31
		32.16%	40.39%	39.25%	65.58%
		49.67%	38.12%	24.19%	25.07%

“

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2020

2021

1-9

	2021 1-9	2020	2019	2018
	-7,597.27	30,891.27	-2,175.61	-12,801.52
	5,704.87	-1,169.99	-1,936.64	-10,322.29
	-13,302.14	32,061.26	-238.96	-2,479.23
	17.91	426.41	111.36	288.26
	1,102.12	1,454.98	1,506.53	1,480.66
	16.53			
	187.04	259.35	250.87	242.19
“ ”	1.30	0.48	-	0.74
“ ”	-	1.48	2.06	-
“ ”	-36.03	119.38	35.07	107.55

“ ”

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-270.97 -1,437.47

-584.23 -10,427.23

2021 1-9

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-4,528.72

11,917.78 30,244.99 -359.56

4

2021 1-9

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	2021 1-9	2020 1-9		
	71,462.90	22,415.73	49,047.17	218.81%
	68,668.58	28,776.28	39,892.30	138.63%
	-7,597.27	-11,078.32	3,481.05	
	-10,427.23	-358.41	-10,068.82	
	-359.56	30,194.99	-30,554.55	

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2 2020 1-9

2021 1-9

2021 1-9

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	2021 1-9	2020	2019	2018
	3.78	4.17	2.51	1.22
	0.27	0.65	0.50	0.17

2021 1-9

2020

2

2018-2020

		2020	2019	2018
		7.22	4.82	3.40
		4.33	3.63	5.02
		4.19	3.80	3.91
		3.85	5.37	1.40
		4.90	4.41	3.43
		4.17	2.51	1.22
		1.20	1.01	0.94

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2021

	7,986.46	7,986.46	< > 2103-210112-04-02-424612
	39,948.34	39,948.34	< > 2103-210112-04-02-185923
ALD	27,094.85	27,094.85	2108-310115-04-05-492438
	25,000.00	25,000.00	

2021 3 31 2021

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2020

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2015 4 29

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2021

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	28nm-10nm	PECVD
10nm	PECVD	UV Cure

PECVD

Й

3	2%	507.83	1.87%
4		1,195.84	4.41%
		27,094.85	100.00%

3

36

		T+6	T+12	T+18	T+24	T+30	T+36
1							
2							
3							
4							

T6

ALD

13

1

PECVD PE-ALD SACVD

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2

3

189

44.06%

4

2019

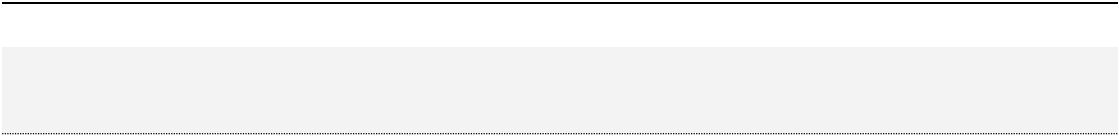
2016

2017

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3

10%

80%

40%

20%

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50%

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30%

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2019

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2021 3 31

2021

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36

51%

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32

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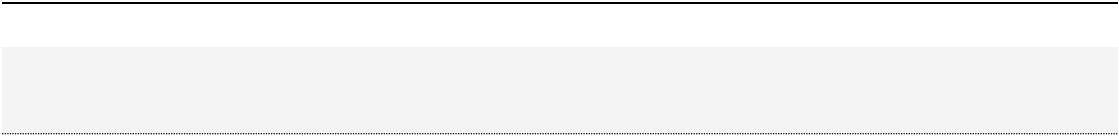
”

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“ ” “ 5 ” “ ”

“ ” “ 5 ” “ ”

“ ” “ 5 ” “ ”



	2018	2,441.00	PECVD		
	2019	12,517.91			
	2020	16,343.19			
	2021	20,721.70			
		52,023.80			
	2018	2,966.07	PECVD		2018 10 15
	2019	7,356.15			

		4,847.60			
	2021	2,920.00	PECVD		
		2,920.00			

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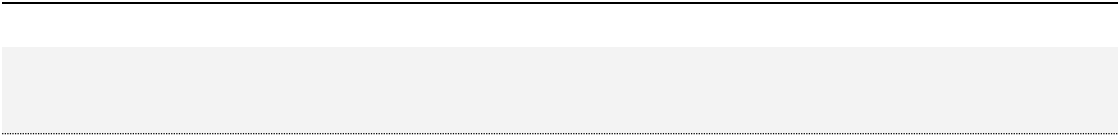
|

|

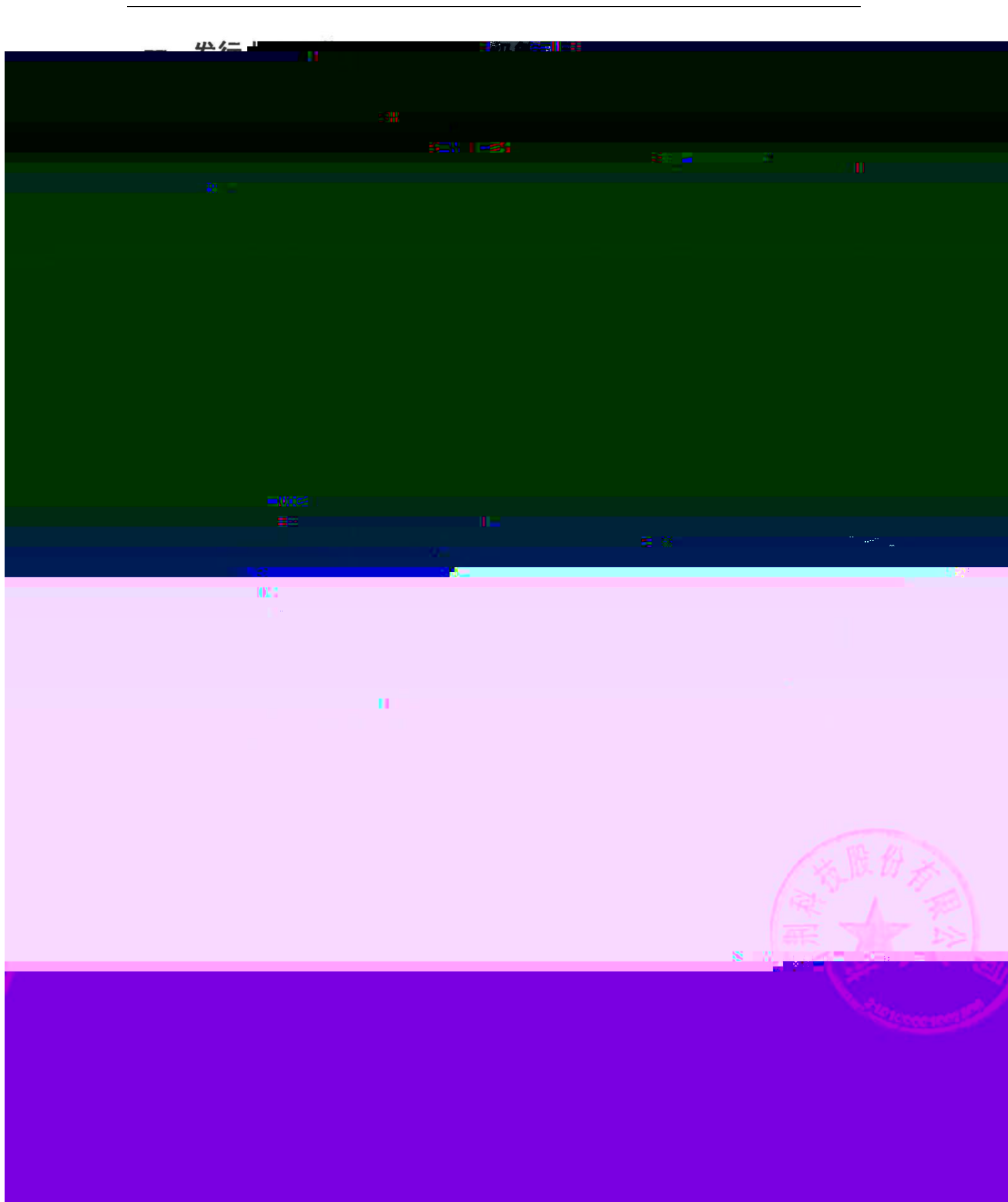
					%	
2017.8.11		5500.00	5,614.4933	6	5.539	

1

						%	
2017.6.28		1	5,011.92	4,500.00	6	5.6239	
		2					
		3					
		4					







真实性、准确性、完整性承担个别和连带的法律责任。

法定代表人签字：

楼宇光



国家集成电路产业投资基金股份有限公司



招股意向书的声明

本人已认真阅读拓荆科技股份有限公司招股意向书的全部内容，确认招股意向书不存在虚假记载、误导性陈述或者重大遗漏，并对招股意向书真实性、准确性、完整性、及时性承担相应法律责任。

王令东

保荐机构总

法定代表人：_____
霍 达

保荐机构



招商证券股份有限公司

2022年3月29日

联席主承销商声明

联席主承销商声明

联席主承销商声明

联席主承销商声明





审计机构声明

本所及签字注册会计师在科创板上市招股意向书（以下简称招股意向书），确认招股意向书与本所出具的《审计报告》（天健审（2022）8号）、《内部控制鉴证报告》（天健审（2022）9号）及经本所鉴证的非经常性损益明细表的内容无矛盾之处。本所及签字注册

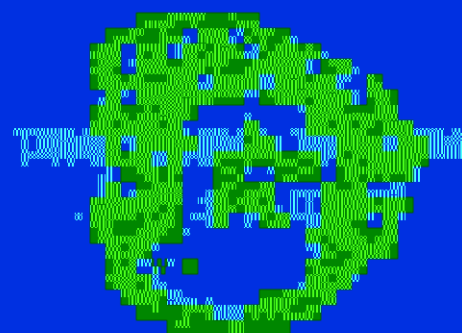
会计师对招股

天健会计师事务所（特殊普通合伙）

浙江天健会计师事务所有限公司

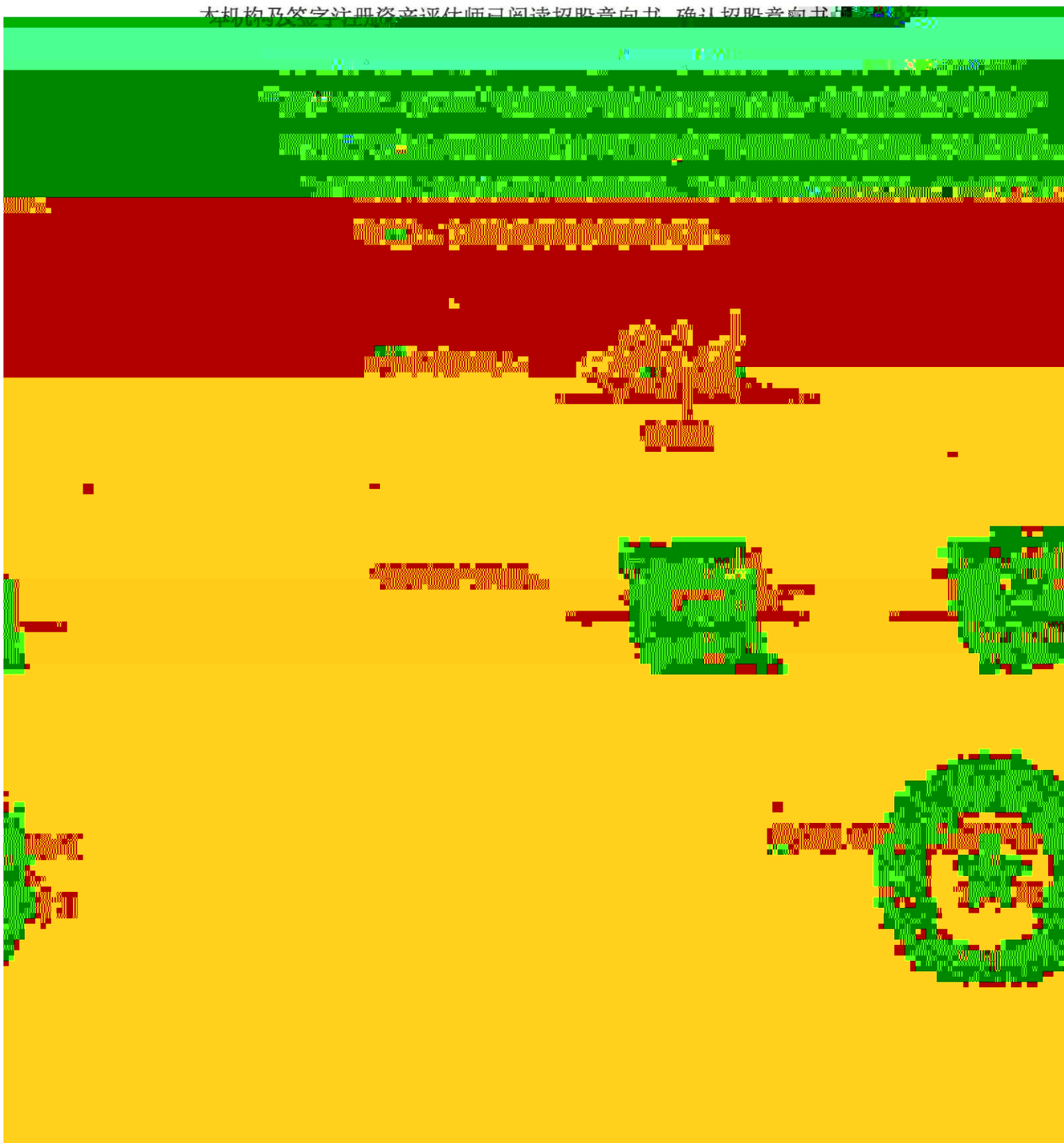
天健会计师事务所（特殊普通合伙）
浙江天健会计师事务所有限公司

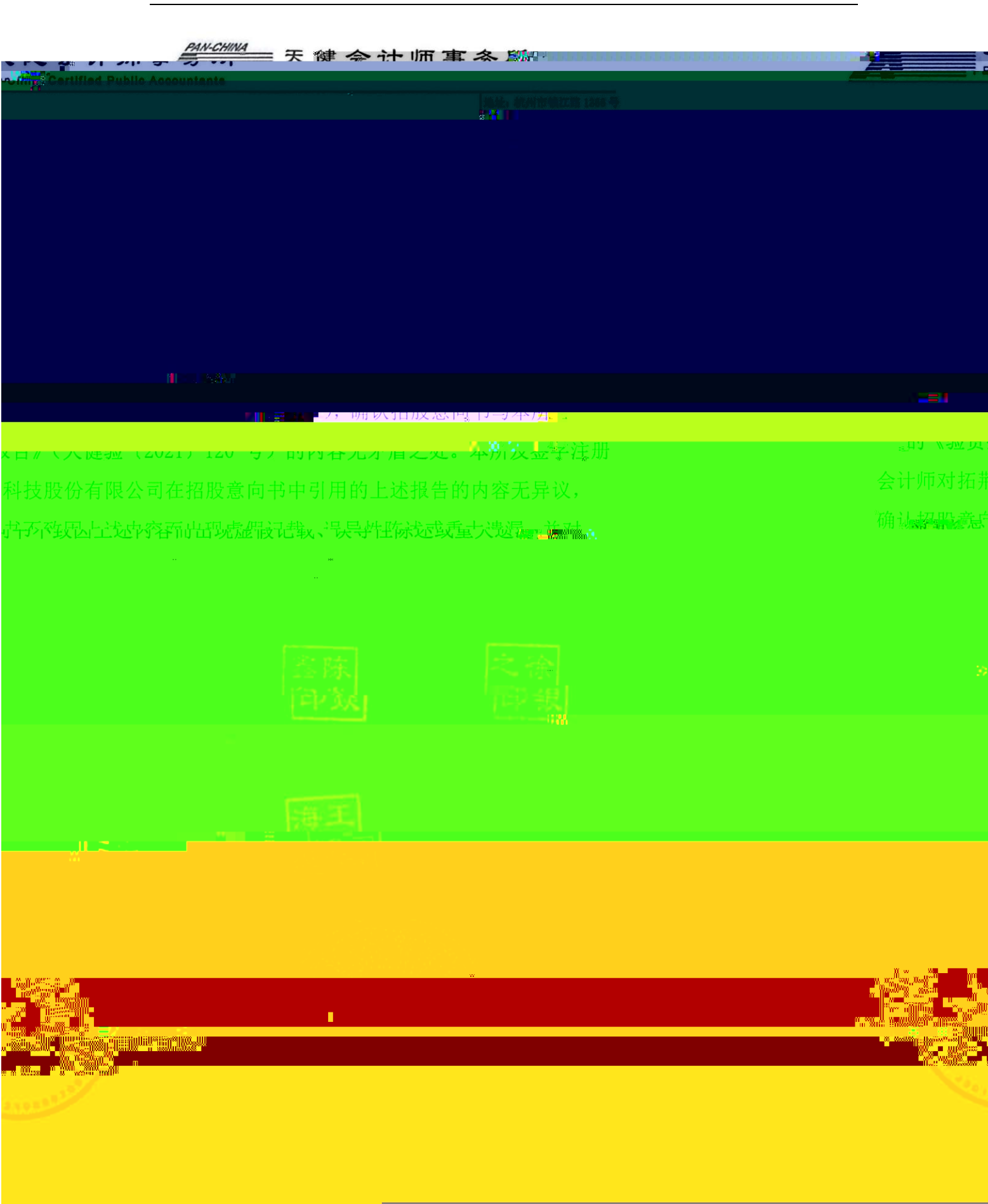
天健会计师事务所（特殊普通合伙）
浙江天健会计师事务所有限公司

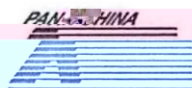


七、资产评估机构声明（二）

本机构及签字注册资产评估师已阅读招股意向书，确认招股意向书







天健会计师事务所
Pan-China Certified Public Accountants

地址：杭州市钱江路1366号
邮编：310020
电话：(0571) 8821 6888
传真：(0571) 8821 6999

验资复核机构声明

本所及签字注册会计师已阅读《拓荆科技股份有限公司首次公开发行股票并在科创板上市招股意向书》（以下简称《招股意向书》），除《招股意向书》中未能在目

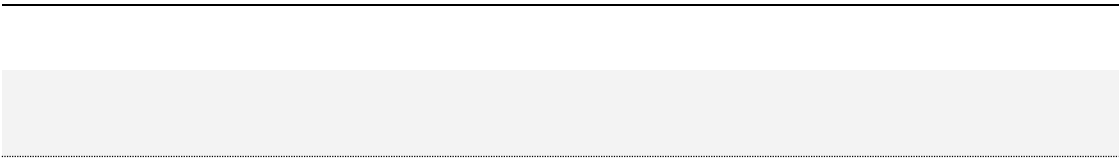
录中找到与招股意向书一致的内容外，招股意向书其他内容与我们所出具的审计报告内容无差异，我们对招股意向书不发表任何意见，我们不对招股意向书的内容负责。

天健会计师事务所负责人：

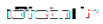
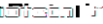
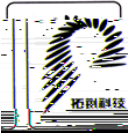
王同海

天健会计师事务所（特殊普通合伙）

二〇二二年三月十七日



5			100 E1 2F A	66.1		2021.1.1-2022.12.31
6			D108-1&D208-2	55.14		2020.12.21-2022.12.20
7			9 904 2	90		2021.6.16-2022.6.15
8			75 2401	100		2021.04.08-2022.04.07
9			28 1 401	125		2021.1.5-2023.1.4
10			7-1-1802	129.53		2020.11.1-

4		38930045	37			2020.02.21-2030.02.20
5	TFLITE	38930044	7			2020.02.21-2030.02.20
6	TFLITE	38930043	37			2020.02.21-2030.02.20
7	Piotech	34370246	7			2021.01.14-2031.01.13
8		34357464	11			2021.01.14-2031.01.13
9		34346794	37			2019.10.14-2029.10.13
10	拓荆科技	30904119	7			2019.02.21-2029.02.20
11	拓荆科技	30904118	11			2019.02.21-2029.02.20
12	拓荆科技	30904117	37			2019.02.21-2029.02.20
13		30904116	7			2020.08.28-2030.08.27
14		30904115	11			2020.03.28-2030.03.27
15		30904114	37			2020.11.28-2030.11.27
16		30904113	7			2019.06.28-2029.06.27
17		30904112	11			2019.02.21-2029.02.20
18		30904111	37			2019.02.21-2029.02.20
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20		9335971	9			2014.06.14-2024.06.13

21		13894102	9			2015.2.21-2025.2.20

2		6350900	7 37			2020.08.31-20 30.08.31	

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1		ZL201910 174089.6			2019.03.08	2021.06.18	
2		ZL201811 530898.8			2018.12.14	2021.05.18	
3		ZL201510 367887.2			2015.06.29	2020.10.30	
4		ZL201510 566078.4			2015.09.08	2020.08.28	

17		ZL201610 695640.8						
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65		ZL201210 321976.X			2012.09.03	2014.10.22	
66		ZL201210 375767.3			2012.09.29	2014.02.05	
67		ZL201210 271694.3			2012.08.01	2013.09.18	
68		ZL201010 005335.4			2010.01.15	2012.05.02	
69		ZL200610 046308.5			2006.04.14	2009.05.20	
70		ZL201820 036849.8			2018.01.10	2018.09.11	
71		ZL201620 685450.3	OLED		2016.07.01	2017.04.12	
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113

3		TW108125375				2019.07.18	2020.09.11	
4		TW106136726	RF			2017.10.25	2020.08.21	
5		TW108119619				2019.06.06	2020.08.21	

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