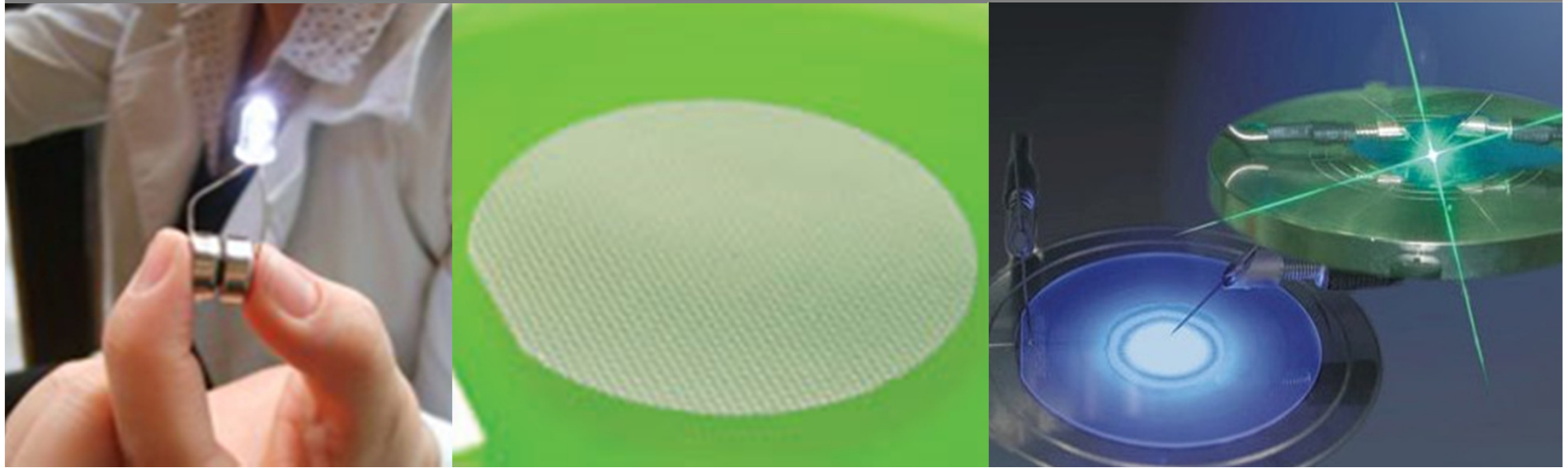


TEK CORE



2021/Nov.



Outline

1. Products

2. Quality Assurance



產品簡介

CHIP PRODUCT LIST



Blue

泰谷料號	尺寸	Mask	電流	主產出範圍		
			mA	Wd(nm)	Iv(mcd)	Vf(V)
OB	7x9mil	0P0N	5mA	460~472.5	10~40mcd	2.7~3.0
			20mA	465~475	40~70mcd	2.8~3.5
BV07A	7x9mil	0P0N	5mA	460~472.5	5~15mcd	2.7~3.0
BL07A	7x9mil	0P0N	5mA	462.5~472.5	18~43mcd	2.7~3.1
B07A	7x9mil	0P0N	5mA	460~470	12~20mcd	2.7~3.0
B07B	7.5x11mil	0P0N	5mA	460~472.5	40~75mcd	2.7~3.0
B08B-M6	8x10 mil	1P0N	10mA	465~475	160~260mcd	2.8~3.2
B08C	8x12mil	0P1N	5mA	460~470	12~20mcd	2.8~3.0
B11D	11x14mil	1P0N	20mA	460~475	340~500mcd	2.8~3.2
B12C	12x13mil	0P0N	20mA	460~470	80~100mcd	2.9~3.2
B13Z	13x13mil	1P0N	20mA	460~472.5	400~600mcd	2.8~3.2
B13D	13x14mil	0P0N	20mA	460~472.5	200~300mcd	2.8~3.2
B15Z	15x15mil	1P1N	20mA	460~470	240~340mcd	2.8~3.2



Blue

泰谷料號	尺寸	Mask	電流	主產出範圍		
			mA	Wd(nm)	Iv(mW)	Vf(V)
B06Q	6x40mil	1P1N	20mA	447~455	42~45mW	2.8~3.0
B07D	7x14mil	1P1N	20mA	445~460	24~30mW	3.0~3.4
B08B-M7	8x11 mil	0P0N	20mA	450~460	18-24mW	2.8~3.3
B08D	8x15mil	1P0N	20mA	450~460	28~32mW	2.9~3.3
B08G	8x20mil	1P0N	20mA	445~457.5	28~34mW	2.8~3.3
B08N	8x34mil	1P0N	20mA	447~455	41~46mW	3.0~3.3
B09O	8.5x37mil	1P0N	20mA	445~455	40~44mW	2.8~3.3
B08Q	8x40mil	1P1N	20mA	447~455	43~46mW	2.7~3.0
B09Q	9x41mil	1P1N	20mA	447~455	42~46mW	2.7~3.0
B09S	9x45mil	1P1N	20mA	447~455	46~49mW	2.7~3.0
B09G	9x20mil	1P1N	60mA	445~460	95~110mW	3.0~3.4
B09J/-B	9x26mil	1P1N 1P0N	60mA	445~460	100~115mW	3.0~3.4



Blue

泰谷料號	尺寸	Mask	電流	主產出範圍		
			mA	Wd(nm)	Iv(mW)	Vf(V)
B14K-A	14x28mil	2P1N	120mA	447~460	200~230mW	2.9~3.2
B17N	17x34mil	2P1N	120mA	447~460	210~255mW	2.9~3.3
B21R	21x43mil	3P2N	350mA	445-455	570-675mW	2.9~3.4
B21V	21x56mil	3P2N	120mA	445~460	260~280mW	2.8~3.1
B22Q	22x40mil	3P2N	120mA	445~465	250~285mW	2.8~3.1
B23K	23x45mil	3P2N	120mA	445~460	250~280mW	2.8~3.1
B26L	26x30mil	3P2N	120mA	445~460	220~240mW	2.9~3.1
B26N	26x34mil	3P2N	120mA	445~460	230~260mW	2.8~3.1
B45Z	45x45mil	5P4N	350mA	450~460	620~680mW	2.9~3.4
B45Z-A	45x45mil	5P4N	350mA	450~460	640~720mW	2.9~3.4



Green

泰谷料號	尺寸	Mask	電流	主產出範圍		
			mA	Wd(nm)	Iv(mcd)	Vf(V)
G07A	7x9mil	0PON	5mA 20mA	515~530 515~530	50~100mcd 120~260mcd	2.7~3.1 2.8~3.3
G08C	8x12mil	0PON	5mA 20mA	520~527.5 510~530	100~160mcd 300~420mcd	2.6~3.0 2.8~3.4
G11D	11x14mil	1PON	20mA	520~530	1500~2000mcd	2.6~3.0
G08E	8x16mil	1P1N	50mA	517.5~530	3500~5500mcd	2.9~3.3
G12C	12x13mil	0PON	20mA	497~530	300~460mcd	2.8~3.4
G13Z	13x13mil	1PON	20mA	520~530	1500~2500mcd	2.8~3.4
G15Z	15x15mil	0PON	20mA	497~530	400~750mcd	2.8~3.4
G15Z	15x15mil	1PON	20mA	522.5~530	1800~2200mcd	2.6~3.5
G17Z	17x17mil	3P2N	150mA	520~530	8000~12000mcd	2.8~3.2



UV

泰谷料號	尺寸	Mask	電流	主產出範圍		
			mA	Wp(nm)	Iv(mcd/mW)	Vf(V)
U13Z	13x13mil	1P0N	20mA	380~410	6~40mW	2.8~3.4
U09F	9x19mil	2P1N	120mA	390~410	130~160mW	3.0~3.6
U14K	14x28mil	2P1N	120mA	380~410	70~100mW	3.0~3.6
U22N	22x35mil	2P1N	120mA	380~410	150~200mW	3.0~3.7



AlGaInP_ Red N side up / Si

Name	Size (mil)	Thickness (um)	Probing current(mA)	Max. rating (mA)	Wl (nm)	Iv (mcd)	Vf (V)
TM08ZBE1R1-C	8	170	20	40	619-626	450~650	1.8~2.3
TM08ZB01R1-A	8	100	20	40	619-626	500-630	1.8-2.3
TM08ZBE1R1-A	8	170	20	40	619-626	600~770	1.8-2.3
TM09ZBE1R1-C	9	170	20	40	619-626	700~850	1.8-2.3
TM10ZBE1R1-A	10	170	20	50	619-626	700-880	1.8-2.3
TM10ZBE1R1-C	10	170	20	50	619-626	700~950	1.8-2.3
TM10ZBE1R1-I	10	170	20	50	619-626	700~950	1.8-2.3
TM12ZC51R1-A	12	225	20	70	619-626	700-880	1.8-2.3



AlGaInP_ Red N side up / Si

Name	Size (mil)	Thickness (um)	Probing current(mA)	Max. rating (mA)	Wl (nm)	Iv (mcd)	Vf (V)
TM14ZC51R1-B	14	225	20	70	614~626	700~1150	1.8-2.3
TM14ZC51R1-C	14	225	20	70	619-626	600~800	1.8-2.3
TM14ZC51R1-C	14	225	20	70	625~635	400~600	1.8-2.3
TM14ZC51R1-E	14	225	50	70	613~619	2600~3500	2.2~2.5
TM14ZC51R1-J	14	225	50	70	625~635		
TM16ZC51R1-B	16	225	150	200	619~626	4500~5500	2.0~2.4
TM20ZC51R1-A	20	225	150	200	613~620	4000~6900	2.0~2.5
TM20ZC51R1-C	20	225	150	200	630~635	2400~3500	2.0~2.5
TM20ZC51R1-C	20	225	150	200	612~620	>6700	2.0~2.5

R



AlGaInP_Red N side up / Si

Name	Size (mil)	Thickness (um)	Probing current(mA)	Max. rating (mA)	Wl (nm)	Iv (mcd)	Vf (V)
TM30ZC51R1-A	30	225	350	600	619-626	10000-14000	2.0~2.6
TM38ZC51R1-A	38	225	350	700	619-626	12000-16000	2.0~2.6
TM42ZC01R1-E	42	200	350	700	618~624	11000~17000	2.2~2.5
<i>R</i> TM42ZC51R1-A	42	225	350	800	625~635		
<i>R</i> TM45ZC51R1-A	45	225	350	800	620~625	14000~19000	2.0~2.6
<i>R</i> TM55ZC51R2-A	55	225	350	800	650~700		
<i>R</i> TM60ZC51R1-A	60	225	350	800	650~700		



AlGaInP_ Yellow N side up / Si

Name	Size (mil)	Thickness (um)	Probing current(mA)	Max. rating (mA)	Wd (nm)	Iv (mcd)	Vf (V)
TM08ZBE1Y1-A	8	170	20	40	585~595	400~800	2.0~2.5
TM10ZBE1Y1-A	10	170	20	50	585~595	500~950	1.9~2.4
TM10ZBE1Y1-J	10	170	20	50	585~595	500~950	1.9~2.4
TM12ZBE1Y1-A	12	225	20	70	585~595	600~1050	1.9~2.4
TM14ZC51Y1-B	14	225	20	70	585~595	700~1150	1.9~2.4
<i>N</i> TM14ZC51Y1-I	14	225	20	70	585~595	1050~1250	1.9~2.4
<i>N</i> TM20ZC51Y1-A	20	225	150	200	588~593	6000~7500	1.9~2.4
<i>R</i> TM30ZC51Y1-A	30	225	350	600	588~593		

***R*: RD develop / *N*: New product**



AlGaInP_ Orange N side up / Si

Name	Size (mil)	Thickness (um)	Probing current(mA)	Max. rating (mA)	Wd (nm)	Iv (mcd)	Vf (V)
TM08ZBE1O1-A	8	170	20	40	600~610	600~850	1.9~2.4
TM10ZBE1O1-A	10	170	20	50	600~610	700~1050	1.9~2.4
TM12ZBE1O1-A	12	225	20	70	600~610	800~1150	1.9~2.4



IR N side up / Si

Name	Size (mil)	Thickness (um)	Probing current(mA)	Max. rating (mA)	Wp (nm)	Iv (mW)	Vf (V)
TM10ZBE1F1-E	10	170	50	70	840-870	21-28	1.4-1.7
<i>R</i> TM10ZBE1F1-E	10	170	50	70	870~890		
TM14ZBE1F1-D	14	170	100	100	840-870	45-55	1.4-1.7
TM14ZBE1F1-H	14	170	100	100	840-870	50~60	1.4-1.7
<i>N</i> TM14ZBE1F1-H	14	170	100	100	870~890	50~60	1.4-1.7
<i>R</i> TM32ZC01F1-A	32	200	700		840-870		



IR
N side up / Si

Name	Size (mil)	Thickness (um)	Probing current(mA)	Max. rating (mA)	Wp (nm)	Iv (mW)	Vf (V)
TM10ZBE1F2-E	10	170	50	70	925-955	14-20	1.3-1.6
TM13ZBE1F2-X	13	170	50	70	925-955	40~50	1.3-1.6
TM14ZBE1F2-H	14	170	100	100	925-955	48~60	1.3-1.6
<i>R</i> TM14ZBE1F2-A	14	170	100	100	925-955	48~60	1.3-1.6



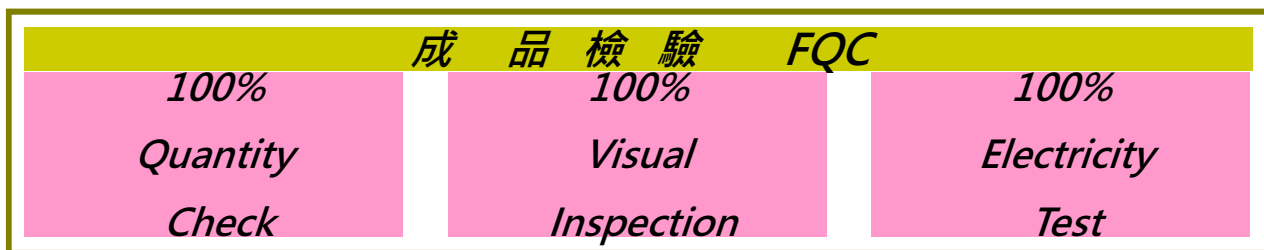
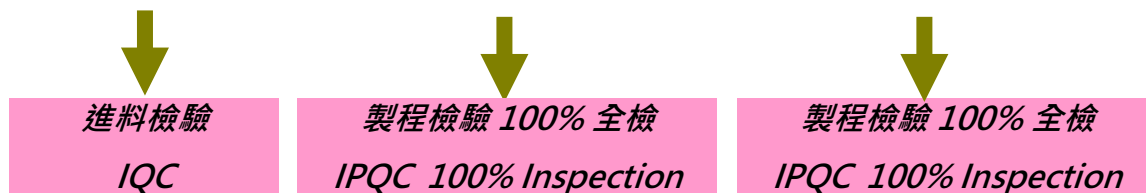
IR P side up/ GaAs

	Name	Size (mil)	Thickness (um)	Probing current(mA)	Max. rating (mA)	Wp (nm)	Iv (mW)	Vf (V)
<i>R</i>	TA10ZC51F2-B	10	225	20	40	930~960	3~9	1.2-1.35
<i>R</i>	TA14ZC51F2-B	12	225	100	40	930~960	30~45	1.2~1.6



品質管理 Quality Control

RoHS Compliance



MOCVD



Wet Bench



E-gun



Prober



Scriber



Sorter



認證 Certificate



測試報告 Test Report

轉帳No.: ETR21A01523 日期(Date): 18-Oct-2021 頁數(Page): 1 of 14
委託商: 華冠科技股份有限公司 (TEKCORE CO., LTD.)
委託商地址: 臺南區工業區三期18號 (NO. 18 TZU-CHUNG 3TH RD, NAN-KUNG INDUSTRIAL ZONE, NANTOU CITY 54065, TAIWAN R. O. C.)

以下測試樣品係由申請商提供供其檢驗 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):
送樣商(Sample Submitted By): 華冠科技股份有限公司 (TEKCORE CO., LTD.)
樣品名稱(Sample Name): WAFER
樣品型號(Sample No.): GAAS-BASED/YELLOW/RED/RESERIES PRODUCT

送樣日期(Sample Receiving Date): 08-Oct-2021
測試日期(Testing Period): 08-Oct-2021 to 18-Oct-2021

測試要求[Test Requested]: (1) 依據客戶要求, 參考RoHS 2011/65/EU Annex II及其修訂指令EU 2015/863限制, 針對 Pb, Cr, 六價鉻, 多環芳烴, 多氯聯苯, DCP, DEP, DHP, DDP, (As specified by client with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBAs, PBDEs, DCP, DEP, DHP, DDP contents in the submitted sample(s))

測試結果[Test Results]: (2) 測試結果符合客戶要求, (Please refer to next pages for the other item(s))
請參閱下一頁 (Please refer to following pages)



SGS Taiwan Ltd. 台灣檢驗科技股份有限公司
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GaAs-ROHS



測試報告 Test Report

轉帳No.: ETR21A01528 日期(Date): 18-Oct-2021 頁數(Page): 1 of 14
委託商: 華冠科技股份有限公司 (TEKCORE CO., LTD.)
委託商地址: 臺南區工業區三期18號 (NO. 18 TZU-CHUNG 3TH RD, NAN-KUNG INDUSTRIAL ZONE, NANTOU CITY 54065, TAIWAN R. O. C.)

以下測試樣品係由申請商提供供其檢驗 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):
送樣商(Sample Submitted By): 華冠科技股份有限公司 (TEKCORE CO., LTD.)
樣品名稱(Sample Name): WAFER
樣品型號(Sample No.): INGAN/BLUE/GREEN/UV/SERIES PRODUCT

送樣日期(Sample Receiving Date): 08-Oct-2021
測試日期(Testing Period): 08-Oct-2021 to 18-Oct-2021

測試要求[Test Requested]: (1) 依據客戶要求, 參考RoHS 2011/65/EU Annex II及其修訂指令EU 2015/863限制, 針對 Pb, Cr, 六價鉻, 多環芳烴, 多氯聯苯, DCP, DEP, DHP, DDP, (As specified by client with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBAs, PBDEs, DCP, DEP, DHP, DDP contents in the submitted sample(s))

測試結果[Test Results]: (2) 測試結果符合客戶要求, (Please refer to next pages for the other item(s))
請參閱下一頁 (Please refer to following pages)



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GaN-ROHS



測試報告 Test Report

轉帳No.: ETR21A01524 日期(Date): 18-Oct-2021 頁數(Page): 1 of 17
委託商: 華冠科技股份有限公司 (TEKCORE CO., LTD.)
委託商地址: 臺南區工業區三期18號 (NO. 18 TZU-CHUNG 3TH RD, NAN-KUNG INDUSTRIAL ZONE, NANTOU CITY 54065, TAIWAN R. O. C.)

以下測試樣品係由申請商提供供其檢驗 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):
送樣商(Sample Submitted By): 華冠科技股份有限公司 (TEKCORE CO., LTD.)
樣品名稱(Sample Name): WAFER
樣品型號(Sample No.): GAAS-BASED/YELLOW/RED/RESERIES PRODUCT

送樣日期(Sample Receiving Date): 08-Oct-2021
測試日期(Testing Period): 08-Oct-2021 to 18-Oct-2021

測試要求[Test Requested]: (1) 依據客戶要求, 參考RoHS 2011/65/EU Annex II及其修訂指令EU 2015/863限制, 針對 Pb, Cr, 六價鉻, 多環芳烴, 多氯聯苯, DCP, DEP, DHP, DDP, (As specified by client with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBAs, PBDEs, DCP, DEP, DHP, DDP contents in the submitted sample(s))

測試結果[Test Results]: (2) 測試結果符合客戶要求, (Please refer to next pages for the other item(s))
請參閱下一頁 (Please refer to following pages)



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GaAs-REACH



測試報告 Test Report

轉帳No.: ETR21A01527 日期(Date): 18-Oct-2021 頁數(Page): 1 of 17
委託商: 華冠科技股份有限公司 (TEKCORE CO., LTD.)
委託商地址: 臺南區工業區三期18號 (NO. 18 TZU-CHUNG 3TH RD, NAN-KUNG INDUSTRIAL ZONE, NANTOU CITY 54065, TAIWAN R. O. C.)

以下測試樣品係由申請商提供供其檢驗 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):
送樣商(Sample Submitted By): 華冠科技股份有限公司 (TEKCORE CO., LTD.)
樣品名稱(Sample Name): WAFER
樣品型號(Sample No.): INGAN/BLUE/GREEN/UV/SERIES PRODUCT

送樣日期(Sample Receiving Date): 08-Oct-2021
測試日期(Testing Period): 08-Oct-2021 to 18-Oct-2021

測試要求[Test Requested]: (1) 依據客戶要求, 參考REACH Regulation (EC) No. 1907/2006限制, 針對 17種高關注物質, 針對 Pb, Cr, 六價鉻, 多環芳烴, 多氯聯苯, DCP, DEP, DHP, DDP, (As specified by client with reference to Regulation (EC) No. 1907/2006 concerning the REACH)

測試結果[Test Results]: (2) 測試結果符合客戶要求, (Please refer to next pages for the other item(s))
請參閱下一頁 (Please refer to following pages)



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GaN-REACH



測試報告 Test Report

轉帳No.: ETR21A01525 日期(Date): 18-Oct-2021 頁數(Page): 1 of 5
委託商: 華冠科技股份有限公司 (TEKCORE CO., LTD.)
委託商地址: 臺南區工業區三期18號 (NO. 18 TZU-CHUNG 3TH RD, NAN-KUNG INDUSTRIAL ZONE, NANTOU CITY 54065, TAIWAN R. O. C.)

以下測試樣品係由申請商提供供其檢驗 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):
送樣商(Sample Submitted By): 華冠科技股份有限公司 (TEKCORE CO., LTD.)
樣品名稱(Sample Name): WAFER
樣品型號(Sample No.): GAAS-BASED/YELLOW/RED/RESERIES PRODUCT

送樣日期(Sample Receiving Date): 08-Oct-2021
測試日期(Testing Period): 08-Oct-2021 to 18-Oct-2021

測試要求[Test Requested]: (1) 依據客戶要求, 參考TSCA Section 601限制, 針對 5種持久性有機化學物質, 針對 Pb, Cr, 六價鉻, 多環芳烴, 多氯聯苯, DCP, DEP, DHP, DDP, (As specified by client with reference to Regulation of Persistent, Bioaccumulative, Toxic (PBT) Chemicals under Toxic Substances Control Act (TSCA) Section 601). Please refer to result table for testing item(s))

測試結果[Test Results]: (2) 測試結果符合客戶要求, (Please refer to following pages)
請參閱下一頁 (Please refer to following pages)



SGS Taiwan Ltd. 台灣檢驗科技股份有限公司
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電話: +886(0)9209 3030

GaAs-TSCA



測試報告 Test Report

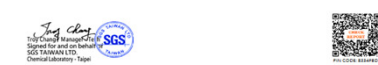
轉帳No.: ETR21A01528 日期(Date): 18-Oct-2021 頁數(Page): 1 of 5
委託商: 華冠科技股份有限公司 (TEKCORE CO., LTD.)
委託商地址: 臺南區工業區三期18號 (NO. 18 TZU-CHUNG 3TH RD, NAN-KUNG INDUSTRIAL ZONE, NANTOU CITY 54065, TAIWAN R. O. C.)

以下測試樣品係由申請商提供供其檢驗 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):
送樣商(Sample Submitted By): 華冠科技股份有限公司 (TEKCORE CO., LTD.)
樣品名稱(Sample Name): WAFER
樣品型號(Sample No.): INGAN/BLUE/GREEN/UV/SERIES PRODUCT

送樣日期(Sample Receiving Date): 08-Oct-2021
測試日期(Testing Period): 08-Oct-2021 to 18-Oct-2021

測試要求[Test Requested]: (1) 依據客戶要求, 參考TSCA Section 601限制, 針對 5種持久性有機化學物質, 針對 Pb, Cr, 六價鉻, 多環芳烴, 多氯聯苯, DCP, DEP, DHP, DDP, (As specified by client with reference to Regulation of Persistent, Bioaccumulative, Toxic (PBT) Chemicals under Toxic Substances Control Act (TSCA) Section 601). Please refer to result table for testing item(s))

測試結果[Test Results]: (2) 測試結果符合客戶要求, (Please refer to next pages for the other item(s))
請參閱下一頁 (Please refer to following pages)



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GaN-TSCA



認證 Certificate



ISO 14001:2015



ISO 45001:2018



IATF 16949:2016



ISO 9001:2015



END

Thank you