產品規格承認書

Specification For Approval

日期: 2005/03/04

Date

編號: STA - 0789

File No.

承認廠商: 友勁科技股份有限公司

Customer

製造廠商: 英碩企業股份有限公司

Manufacturer

型號品名: SMA 90° Type(母頭公針)

Part Number Description

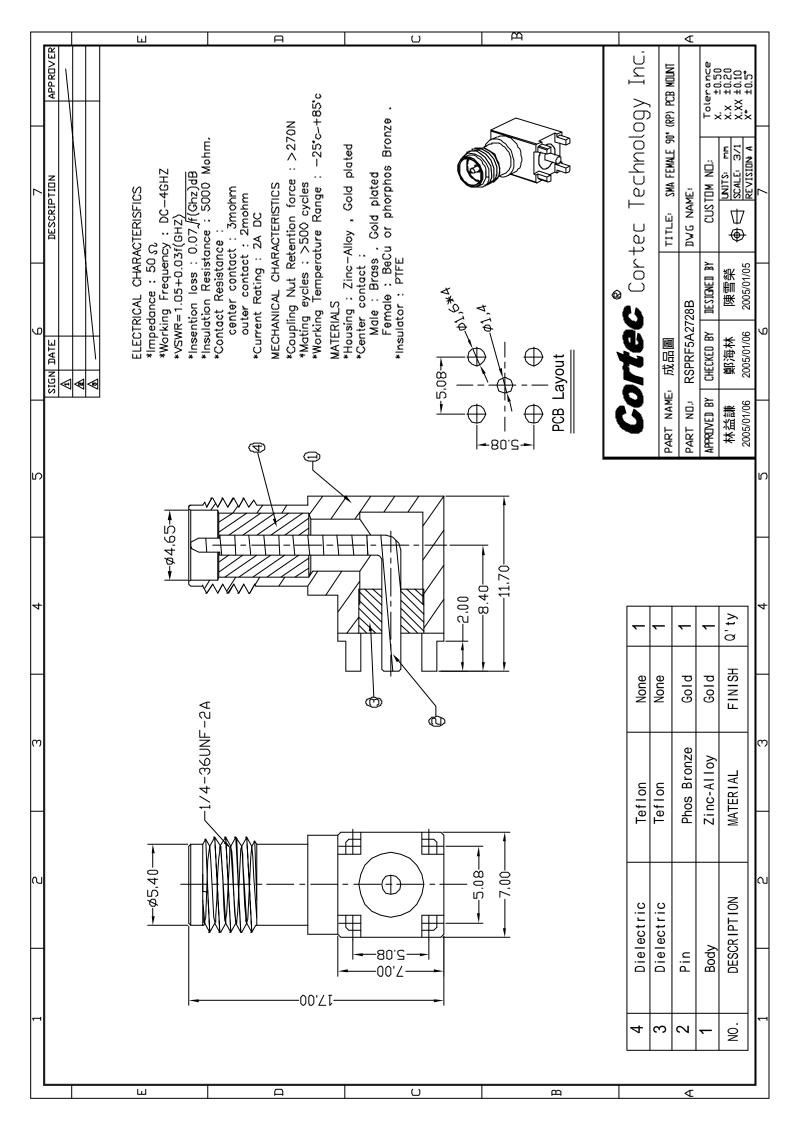
INVAX P/N: CR-RSPRF5A2727B

廠商審核:

Approved By

INVax 英碩企業股份有限公司

台北市忠孝東路五段 815 號 4 樓 Tel: (02)2788-5218 Fax: (02)2783-1658 Web Site:www.invax.com.tw E-maill:info@invax.com.tw



FROM :JIN CHUAN FUH

MTC38669

一、測試項目:分光分析(鋅含金)

二、使用設備: Fisons ARI 3460 Optical Emission Spectrometer 分光儀

三、測試方法: ASTM E-2 SM 8-15 (92)

四、測試環境:溫度23℃

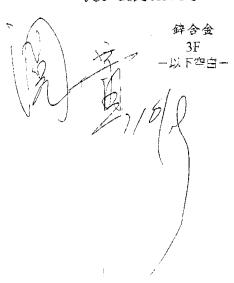
五、測試結果:

嬌 號	Composition (%)								
	金	缋	48	鎂	調	鉛	錫		
	Zn	Fŧ	Al	Mg	Cu	Рb	Sn		
辞合金 3F	95. 70	<0, 001	3. 34	0.029	0 40	0.002	0.002		

註:<小於表示分析能力超過範圍。



金金福全業有限公司 JCF CHUAN FUH ENT.CO/LID.







化學實驗室委託試驗報告表

ij.

委託者	金全福企業有限公司	
報告編號	MTC38669	
工令單號	L93SE000-3775	
金試字號	931,0063	
取樣者		
樣品名稱	鋅合金3F	
工程名稱	_	
垛樣日期	2004/11/30	
簽發日期	2004/12/05	

本報告含附頁共 2 頁。



報告簽署人 (Report Authorized Person)

頁 (Inspector) 验

全部 1.総体域品經費除率測說結果如附頁。 2.本報告學對这檢樣品負責。 3.本報告未經書面許可不得複製或插錄。 4.本報告分離使用無效。

金屬工業研究發展中心

高雄市橋铎區811高橋公路1001號

宫前五金股份有限公司

檢驗報告表

編號:881130

88年11月25日

19113 20 6 ·				88年11月25日
答	Ţī,	康碩电	3 T	
ᇤ	名	FREE CUITING	G BRASS ROD	丸2.0 m/m ·
規	格	JIS H3250 C36	504 BD	
項目	數據	標準値	實 測 値	備 註
化	Cu	57.0-61.0	59.18	
E .	Pb	1.8 - 3.7	2.97	
戍	Fe	< 0.5	∰ do yk; — on on	東乃東フナ加ハコ
份	Sn+Fe	< 1.2	0.71	康碩電子有限公司 2003 9. 11
6/6	Zn	REMAINDER	REMAINDER	工程部發文
其包				* (TEL-(13)328411-1)*)
				TO TO THE TOTAL OF



東旭(迅昇集團)金屬表面處理有限公司 TEL:<0769>5565111 FAX:<0769>5562446 CMI SmartLink Pro 讀數

App Name:

數據	μ in Au	日期/時間
1	5.68	2003/8/26 01:14
2	5.43	2003/8/26 01:15
3	5.73	2003/8/26 01:15
4	6.06	2003/8/26 01:16
5	5.34	2003/8/26 01:16

康碩電子有限公司 2003 9. 11 工程部發文

> TO: 瓦碗 貴司物料: SMA 全十之 經X-RAY膜厚測試儀測試, 鍍層厚度已符合貴司要求.

測試員	需华友
審核	龙粉花
確認	mas

01:20 AM, 星期二, 八月 26, 200



東地(迅昇集團)金屬表面處理有限公司 TEL:<0769>5565111 FAX:<0769>5562446 CMI SmartLink Pro 讀數

App Name:

數據	μ in Au	日期/時間
1	1.38	2003/9/7 13:10
2	1.42	2003/9/7 13:11
3	1.50	2003/9/7 13:12
4	1.39	2003/9/7 13:12
5	1.48	2003/9/7 13:13

康碩電子有限公司 2003 9. 11 工程部發文

> 10: **反压** 貴司物料: SMA 分 CC, 經X-RAY膜厚測試儀測試, 鍍層厚度已符合貴司要求.

測試員	禹华友
審核	AZNIE
確認	1 Carrier

各種充てん材入りPTFEの特性

			•									
						、 充で (電	人材 量%)		4577m// 184	1		
					単 位	_	. E. 70/	純PTFE	ガラスファイバービ%		ガラスファイバー否%	グラファイト15%
				_		測定条件			G15	G20	G25	GR15
H				熏	g/cm³	25°C	, . ,	2.17	2.23	2.24	2.26	2.16
\$3	! 1	五	4	串	kcal/m-hr-°C			0.20	0.29	0.30	0.34	0.34
					•	25~100°C	MD	11	11	10	9	10
						-5 100 0	CD	10	8	7	6	8
					•	25~150°C	MD	12	12	11	10	11
熱	腿	脱	係	数	×10 ⁻⁵ /°C ·		CD	11	8	8 .	7	9
						25∼200°C	MD	14	13	12.	11	12
							ÇD	12	9	9	7	. 9
			•			25~100°C 25~150°C 25~200°C 25~250°C JISK6891 JISK6891 0.2%オフセット 24°C 1%変形 24°C 25%変形 24°C ASTMD-790 ASTMD-621 140kgf/cm²25°C 24hrs 2 70kgf/cm² 25°C・24hra	MD	17	14	13	13	14
						20 2000	CD	16	10	10	· 9	11
51	-	段 5	连	7	kgf/cm²	JISK6891		330	290	234	220	200
伴				び	%	JISK6891		350	340	338	310	325
							MD			85		_
						24°C	CD	73	74	76	80	100
圧	*	& 5	爸	ā	kgf/cm ²		MD			63	-	
					-B-/ c	24°C	CD	44	50	60	80	70
		•					MD			254		٠
•						24°C	CD	280	280	283	290	300
Œ	给	弾	14:	28	kgf/cm²		MD	·				
		• •		•			CD	5.7×10^3	8.8×10^{3}	9.6×10^3	10.6×10^{3}	7.8×10^3
曲	{ (引	イ 引 単性 ²⁴	並 軽)	\$	kgf/cm ²	ASTMD-790	CD	$3.5 - 6.3 \times 10^3$	21.8×10 ³	19.0×10 ³	16.7×10^3	_
						ASTMD-621	MD	9.5	8.8	8.5	7.9	5.0
圧	縮	クリ		ブ	%	24hrs 2	CD				·	J.U
1.	. 🕉	E A	3	率	70	70kgf/cm ²	MD	4.8	4.4	3.6	3.5	3.1
						25°C • 24hra	CD			_	-	
						140kgf/cm ²	MD	7.0	6.9	6.7	6.2	3.8
12	办	、久	শ্বাং	#á	%	25°C • 24hrs	CD		~	11.5		
•	• • •	• / •	24,	112	70	70kgf/cm²	MD -	4.6	3.8	3.5	3.3	3.0
						25°C • 24hrs	CD	_ `				- ·
硬				度	ショアーD			58	58	59	60	58
摩	擦	保制	()	ታ)				0.22	0.24	. 0.24	0.26	0.23
厚	擦	保包	k (A	})				0.045	0.065	0.073	0.085	
癴	頛		÷	<u>.</u>	mm/km	65hrs鈴木式		•	• •	0.073	0.065	0.058
絶		经额		数	kgf/cm ²	試験機による		2×10 ⁻²	1.2×10^{-5}	1.1×10 ⁻⁵	1.0×10 ⁻⁵	6.7×10^{-5}
712	47	· m'		カ	kv/mm	JISD2120(油中		46.4	17.4	15.5	13.7	4.1
诱		Æ		率		JISD6911 1031		2.06	2.64	2.91	2.94	
						10*1	1z ··	2.06	2.80	2.77	2.89	-
吸		水		来	%	3.2mmt24H ASTM D570		0.01>	0.015	0.014	0.013	0
								•		•		

※MDは成形加工に平行方向、CDは成形加工に直角方向

数値はある一定環境において行われた実験データで、環境の違いにより若干発ることがあります。(現格値ではありません)

康碩電子有限公司 2003 9.11 工程部發文

[※]この表はフッ素樹脂メーカーのデーターを基にした数値も含まれます。



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The following merchandise was (were) submitted and identified by the client as:

Type of Product

: ANTENNA

Style/Item No.

: EM SERIES; IM SERIES; NB SERIES; AN SERIES

Sample Received

: 2004/01/05 & 2004/04/23 & 2004/06/11 & 2004/06/24 &

2004/12/09 & 2005/01/26

Testing Date

: 2004/01/05 TO 2004/01/06 & 2004/04/23 TO 2004/04/28 & 2004/06/11 TO 2004/06/21 & 2004/06/24 TO 2004/07/01 & 2004/12/09 TO 2004/12/16 & 2005/01/26 TO 2005/01/28

Test Result

: - Please see the next page -

This report is combined with reports of SZTYR050102512/LP & CE/2004/62767 & GZSCR040100230/LP & CE/2004/61520 & GZSCR040413274/LP

Operation Manager Signed for and on behalf of

SGS TAIWAN LTD.

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Test Result

PART NAME NO.1 : BRASSY COLOR METAL BAR(SZTYR050102512/LP) : BLACK PLASTIC SHEET(GZSCR040100230/LP) PART NAME NO.2 PART NAME NO.3 : TAN TRANSPARENT LIQUID(GZSCR040413274/LP) PART NAME NO.4 : BLACK PLASTIC JACKET(KHCX-32AWG-SB-TA)(CE/2004/61520)

PART NAME NO.5 TRANSPARENT FEP JACKET(CE/2004/C1640) PART NAME NO.6 : WHITE PALSTIC(CE/2004/62767)

Result Test Item (s): Unit Method MDL No.1 No.2 No.3 No.4 No.5 PBBs(Polybrominated % With reference to 0.0005 N.D. N.D. biphenyls)(CAS USEPA3540C or NO:059536-65-1) USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC) PBBEs(PBDEs)(Polybromin With reference to 0.0005 N.D. N.D. ated biphenyl ethers) USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS),

				Result					
Test Item (s):	Unit	Method	MDL	No.1	No.2	No.3	No.4	No.5	
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.		N.D.	N.D.	N.D.	
Cadmium (Cd)		ICP-AES after as per EN 1122, method B:2001 or other acid digestion.		22.0	N.D.	N.D.	N.D.	N.D.	

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83/264/EEC, and 76/769/EEC)



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				Result					
Test Item (s):	Unit	Method	MDL	No.1	No.2	No.3	No.4	No.5	
Lead (Pb)		ICP-AES after as per US EPA 3050B or other acid digestion.	2	24600.0	6.0	N.D.	N.D.	N.D.	
Mercury (Hg)		ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.	***	N.D.	N.D.	N.D.	

				Result
Test Item (s):	Unit	Method	MDL	No.6
AZO		As per LMBG 8202-2		
4-AMINODIPHENYL (CAS NO.92-67-1)	ppm	Analysis was performed by GC/MS.	3	N.D.
BENZIDINE (CAS NO.92- 87-5)	ppm	Analysis was performed by GC/MS.	3	N.D.
4-CHLORO-O-TOLUIDINE (CAS NO.95-69-2)	ppm	Analysis was performed by GC/MS.	3	N.D.
2-NAPHTHYLAMINE (CAS NO.91-59-8)	ppm	Analysis was performed by GC/MS.	3	N.D.
O-AMINOAZOTOLUENE (CAS NO.97-56-3)	ppm	Analysis was performed by GC/MS.	3	N.D.
2-AMINO-4- NITROTOLUENE (CAS	ppm	Analysis was performed by GC/MS.	3	N.D.
P-CHLOROANILINE (CAS NO. 106-47-8)	ppm	Analysis was performed by GC/MS.	3	N.D.
2,4-DIAMINOANISOLE (CAS NO.615-05-4)	ppm	Analysis was performed by GC/MS.	3	N.D.
4,4- DIAMINODIPHENYLMETH ANE (CAS NO.101-77-9)	ppm	Analysis was performed by GC/MS.	3	N.D.
3,3-DICHLOROBENZIDINE (CAS NO.91-94-1)		Analysis was performed by GC/MS.	3	N.D.
3,3- DIMETHOXYBENZIDINE CAS NO.119-90-4)		Analysis was performed by GC/MS.	3	N.D.
3,3-DIMETHYLBENZIDINE (CAS NO.119-93-7)		Analysis was performed by GC/MS.	3	N.D.

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				Result
Test Item (s):	Unit	Method	MDL	No.6
3,3-DIMETHYL-4,4- DIAMINODIPHENYLMETH ANE (CAS NO.838-88-0)	ppm	Analysis was performed by GC/MS.	3	N.D.
P-CRESIDINE(2- METHOXY-5- METHYLANILINE) (CAS NO. 120-71-8)	ppm	Analysis was performed by GC/MS.	3	N.D.
4,4-METHYLENE-BIS-(2- CHLORANILINE) (CAS NO. 101-14-4)	ppm	Analysis was performed by GC/MS.	3	N.D.
4,4-OXYDIANILINE (CAS NO. 101-80-4)	ppm	Analysis was performed by GC/MS.	. 3	N.D.
4,4-THIODIANILINE (CAS NO. 139-65-1)		Analysis was performed by GC/MS.	3	N.D.
O-TOLUIDINE (CAS NO.95- 53-4)	ppm	Analysis was performed by GC/MS.	3	N.D.
2,4-TOLUYLENDIAMINE CAS NO.95-80-7)		Analysis was performed by GC/MS.	3	N.D.
2,4,5-TRIMETHYLANILINE CAS NO.137-17-7)		Analysis was performed by GC/MS.	3	N.D.
D-ANISIDINE (CAS NO.90- 04-0)		Analysis was performed by GC/MS.	3	N.D.
P-AMINOAZOBENZENE CAS NO.60-09-3)		Analysis was performed by GC/MS.	3	N.D.

				Result
, ,	Unit		MDL	No.6
Mirex(CAS NO:002385-85- 5)	ppm	Analysis was performed by GC/MS.	4	N.D.

Toot Itom (a)				Result
Test Item (s):	Unit	Method	MDL	No.6
PCBs(Polychlorinated Biphenyls)(CAS NO:001336-36-3)		With reference to USEPA 8082A. Analysis was performed by GC/ECD/MS.	0.5	N.D.

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INVAX SYSTEM & TRADING CORP. CORTEC TECHNOLOGY INC.

4F. No.815, CHUNG HSAIO EAST RD. SEC.5,

TAIPEI, TAIWAN, R.O.C.

Report No. : CE/2004/C1640A

: 2004/12/16 Date

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Test Item (s):	Unit		MDL	Result
				No.6
PBBs(Polybrominated biphenyls)(CAS NO:059536-65-1)	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.
PBBEs(PBDEs)(Polybromin ated biphenyl ethers)		With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.

Test Item (s):	Unit	and thou	MDL	Result No.6
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	N.D.

- NOTE: (1) N.D. = Not detected (<MDL)
 - (2) ppm = mg/kg
 - (3) MDL = Method Detection Limit
 - (4) " --- " = Not Applicable
 - (5) " " = No Regulation
 - (6) * = Results shown are of the adjusted analytical results
 - (7) ** = Qualitative analysis (No Unit)
 - (8) Negative = Undetectable / Positive = Detectable
 - (9) The MDL is 5ppm for the single compound of CP

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