

BILLION

PARTS NUMBER REQUEST & APPROVAL SHEET

Powering Communications

1. Part Number:

A0ZAND2S202C2M2000
申請單：新增料件
新增經銷商
變更單
2. 製造商：
(Manufacturer)

亞驪

製造商料號：
(Manufacturer P/N) RFA-02-C2M23. 經銷商：
(Supplier)

亞驪

經銷商料號：
(Supplier P/N) RFA-02-C2M24. 種類名稱：
(分群碼)**Antenna**

5A. 品名描述(Part Description):

ANT-D 亞驪 RFA-02-C2M2

5B. 規格描述(Spec.Description):

2.4GHz 2dBi swivel-SMA HSF

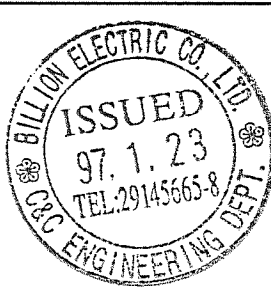

變更如下:

6. 變更原因說明(Change Reason):
- 1.內銅管徑4.4mm, 2.高度為3.5mm+/-1.5, 3.Avg Gain>=1.5dbi
 - 4.料號RFA-02-C2M2-08變更爲RFA-02-C2M2(08爲版本別)

(申請或變更料號請附上規格說明書) 如有任何變更, 須事前聯絡, 取得承認後, 始能變更

7. Series Approval 請勾選(規格請參照 _____ 系列承認書)8. 樣品發行: BILLION EG-B None

9. 備註(Remark): 已於7402GX, 7300GR4, 誠信Lab驗證OK。

DCC 文管中心發行章	主管核准 Manager Signature		審查 Engineer Signature		承辦
	M.E.	E.E.	M.E.	E.E.	
	N/A	<i>Tact</i>	N/A	<i>Vincent</i>	
	*無須審核者以"N/A"表示 *簽名時應註明日期				

申請日: 2008/1/18

☐ (Request Date)

楊勝凱

☐ 申請者 (Request) ☐

台北實驗室

☐ 申請單位(Department) ☐



☐ 鍵入者 (Key-in) ☐

☐ 由零件工程師填寫

料號申請/零件承認單: 第 1 頁

F-BEC0105-03

亞 驪 企 業 股 份 有 限 公 司
ARISTOTLE ENTERPRISES

承 認 申 請 書

ROHS COMPLIANCE

客戶名稱: 盛達電業股份有限公司
Customer
廠商料號: RFA-02-C2M2
Part No.
品名: 2.4GHz,無鉛製程
Description
圖號: RFA-02-C2M2-08.DWG
Drawing No.
客戶料號:
Drawing No.

出廠簽章:

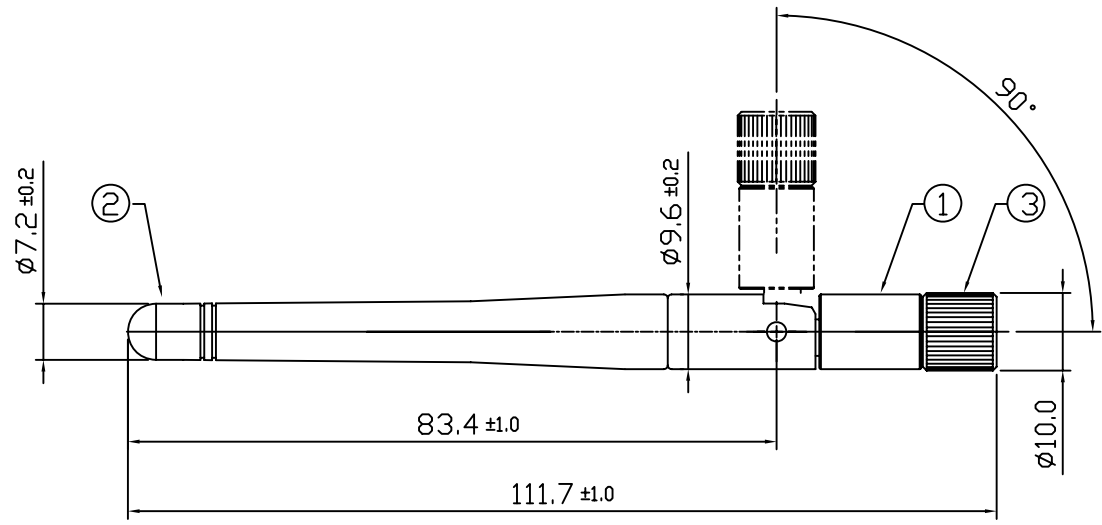
檢 查 TEST BY	核 對 CHECK BY	承 認 APPROVE BY
方美鑾	傅千玲	廖煥文

承認簽章:

檢 查 TEST BY	核 對 CHECK BY	承 認 APPROVE BY

地址:台北縣中和市莒光路 63 號 8 樓
電話:02-2225-8209
傳真:02-2225-7523

NO.	NAME	FINISH	MAT'L	Q'TY	MEMO
1.	Hinge	BLACK	ABS	1	
2.	Tube	BLACK	ABS	1	
3.	RP SMA PLUG	BLACK	BRASS	1	



ARISTOTLE 亞 驥 企 業 股 份 有 限 公 司
 ENTERPRISES INC.

4.										
3.										
2.										
1.										
REV	ECN		NAME	DATE	DRAW	J.W.Lee	94/07/29			

PROJECTION	UNITS	mm	TITLE
	SCALE	1/1	RFA-02-C2M2-08
	PAPER	A4	
APPD.			DWG NO.
CHKD			RFA-02-C2M2-08.DWG
DESIGN			REV.
DRAW			A

零件 For RFA-02-C2M2-08



1. Specification

Description: Dipole antenna

Part NO.:RFA-02-C2M2

Electrical specification

1. Frequency range: 2400 – 2500MHz
2. Average Gain: = >1.5 dBi
3. VSWR: <= 2.0
4. Polarization: Linear, vertical
5. Impedance: 50 Ohm
6. Connector: RP-SMA plug
(Reverse Polarity meets FCC part 15. 203 Requirement)



Mechanical Testing Results

Condition : Non operating during test.

1 Endurance test result:

- 1). Number of connection/disconnection of the connector : **500 cycles**
- 2). Number of 360° rotation of the connector : **1000 cycles**

Mandatory : Guaranty of functionalities after test.

2 Resistance test result: (tests are applicable to all parts and both sides.)

2-1 Traction test result:

- 1). Traction force applied 3 times on plugs during 15 second : **1 kg**

Mandatory : No mechanical damage tolerated. Guaranty of functionalities after testing.

2-2 Bending force test result:

- 1). Number of 90° at the hinge parts and bending on one direction with 1 lbs force: **1000 cycles.**
- 2). Bending at the antenna hinge parts reversely guaranteed the quality under **1 kgw** force.

2-3 Top cover & joint Tensility test result

Test equipment: IMADA FB-50K

- A). Minimum pull test force: 8kgw
- B). Maximum pull test force: 15.5kgw
- C). Average pull test force over 10kgw

Testing items	1	2	3	4
Reference force specification	8kg ↑			
Torsion test data	15.5kg	10.5kg	12kg	15kg
Decision (Result)	OK	OK	OK	OK

Mandatory : No mechanical damage tolerated. Guaranty of functionalities after testing.

2.4 Connector rotation torque test

A) minimum torque test force: 200gf/cm

B) maximum torque test force: 600gf/cm

Testing items	1	2	3	4
Reference force specification	200gf/cm-600gf /cm			
Decision (Result)	OK	OK	OK	OK

Mandatory : No mechanical damage tolerated. Guaranty of functionalities after testing.

3 Environmental Testing Results

3-1 Storage test results

Condition : Non operating during test.

Cold: -40°C during 72h (IEC 68-2-1 standard Ab/Ad test)

Dry heat: +60°C during 96h (IEC 68-2-2 standard Bb/Bd test)

Humidity: +25°C at 95%R.H. during 4 days (IEC 68-2-56 standard Cb test)

Mandatory : No mechanical or visible damage tolerated. Guaranty of functionalities after test

3-2 Operation test results

Condition : Operating during test.

Cold: -10°C during 48h (IEC 68-2-1 standard Ab/Ad test)

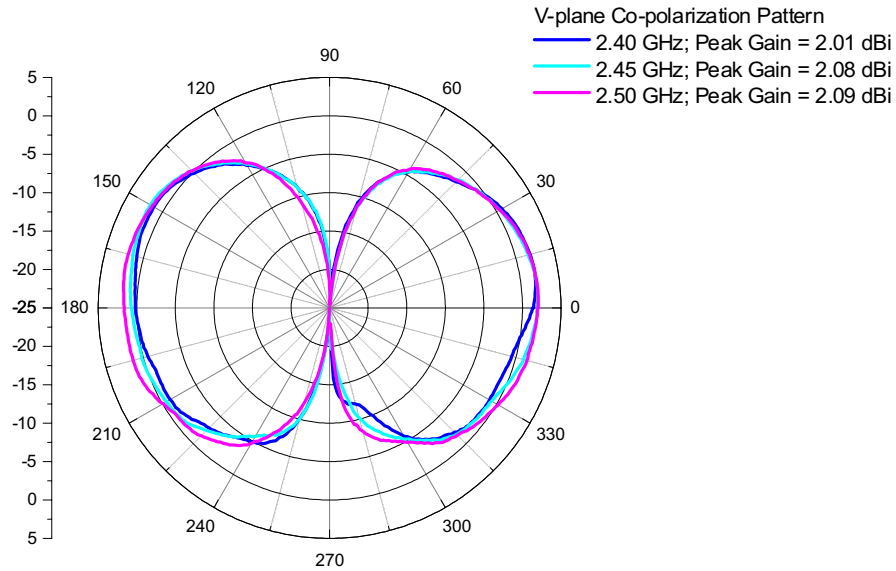
Dry heat: +55°C during 48h (IEC 68-2-2 standard Bb/Bd test)

Composite: -10°C to +55°C 95%R.H 4 cycles(IEC 68-2-30 standard Nb test)

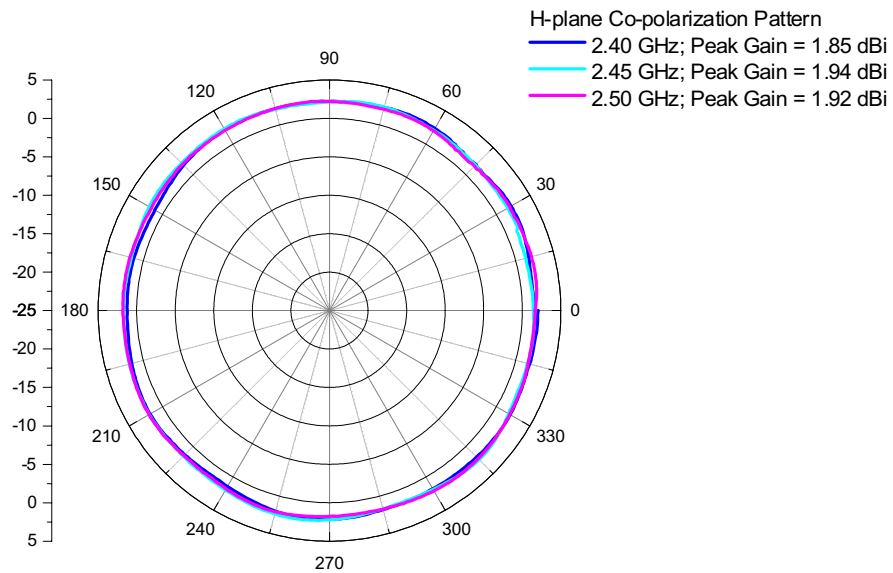
Mandatory : No mechanical or visible damage tolerated. Guaranty of functionalities during and after test

5. Antenna radiation patterns

5-1. 11b dipole Antenna Radiation pattern : E-Plane

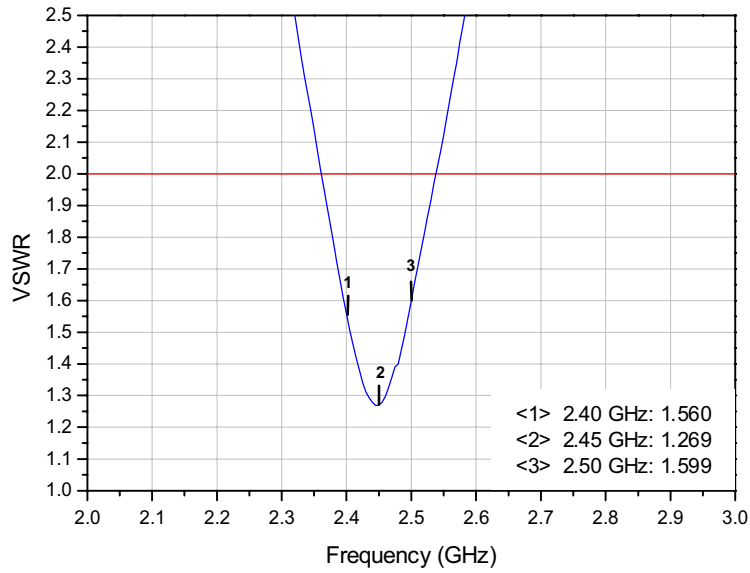


5-2. 11b dipole Antenna Radiation pattern : H-Plane

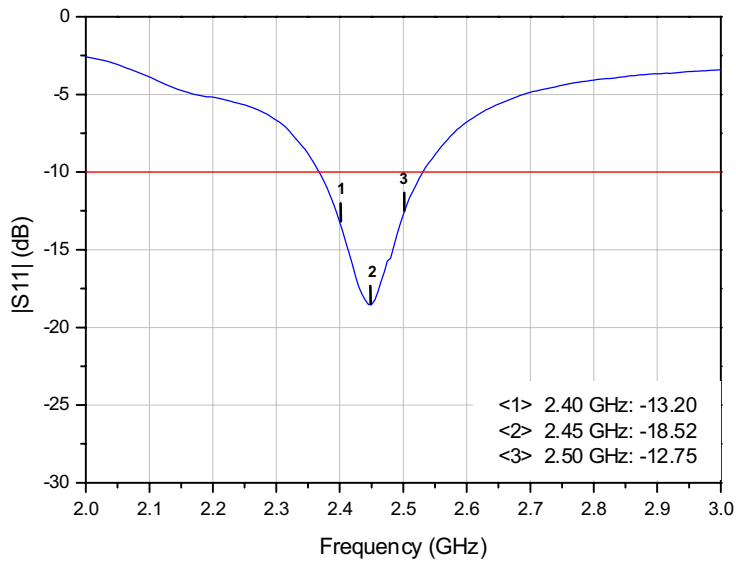


6. Antenna VSWR/Return Loss

6-1. 11b dipole Antenna VSWR



6-2. 11b dipole Return Loss





Brand / Model : C223
Remark :
Sample No.
Tested by : ALEX

Location: **RF Chamber3**

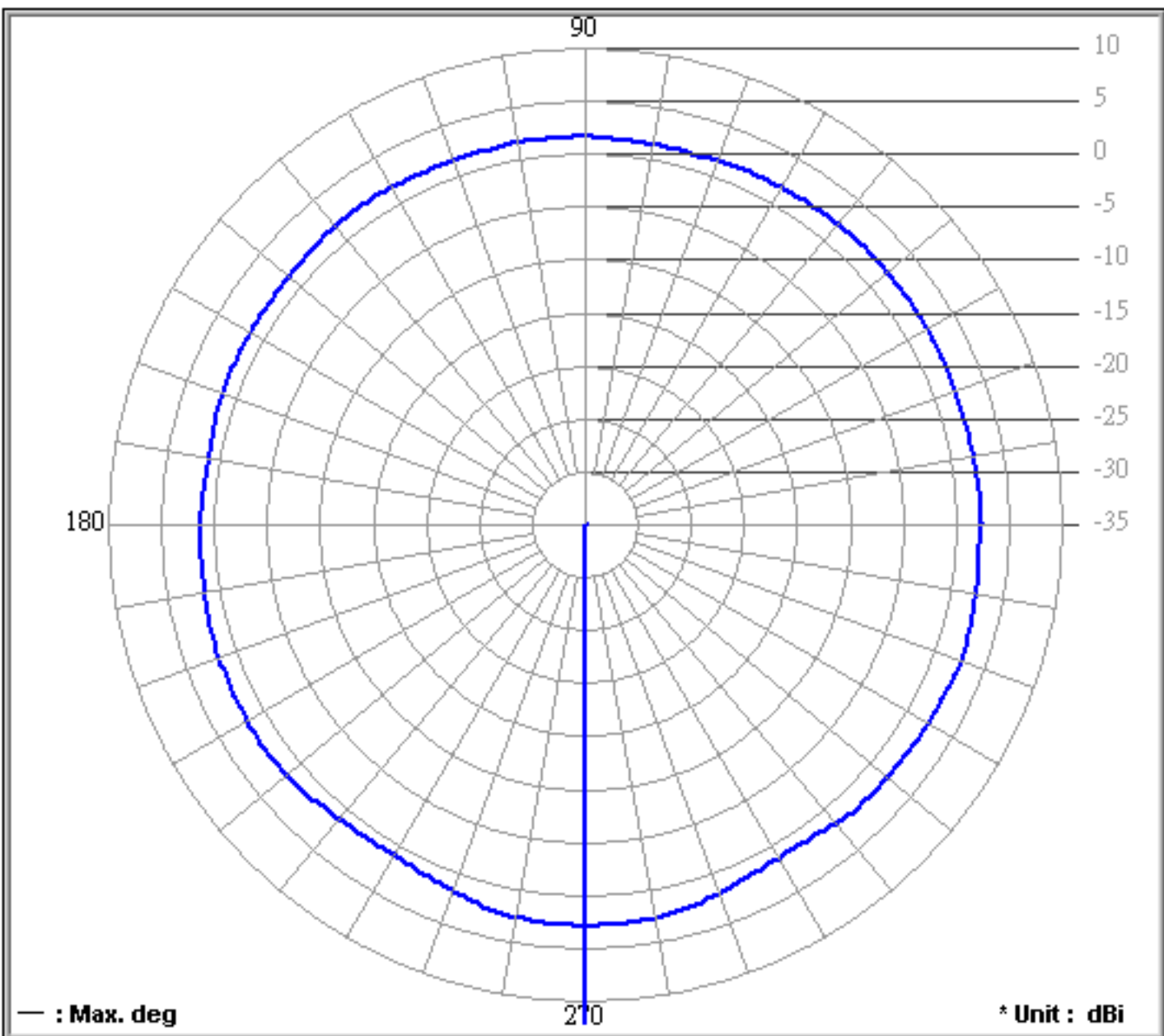
Date: **2008/1/4**

Time: **12:53:40**

Temperature (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz) : **2400.00**

Antenna Polarity : **Vertical**

Average Value (dB) : **1.88**

Maximum Value (dB) : **2.87**

Maximum Value (degree) : **270**

Minimum Value (dB) : **0.98**

Minimum Value (degree) : **236**



Brand / Model : C223
Remark :
Sample No.
Tested by : ALEX

Location: **RF Chamber3**

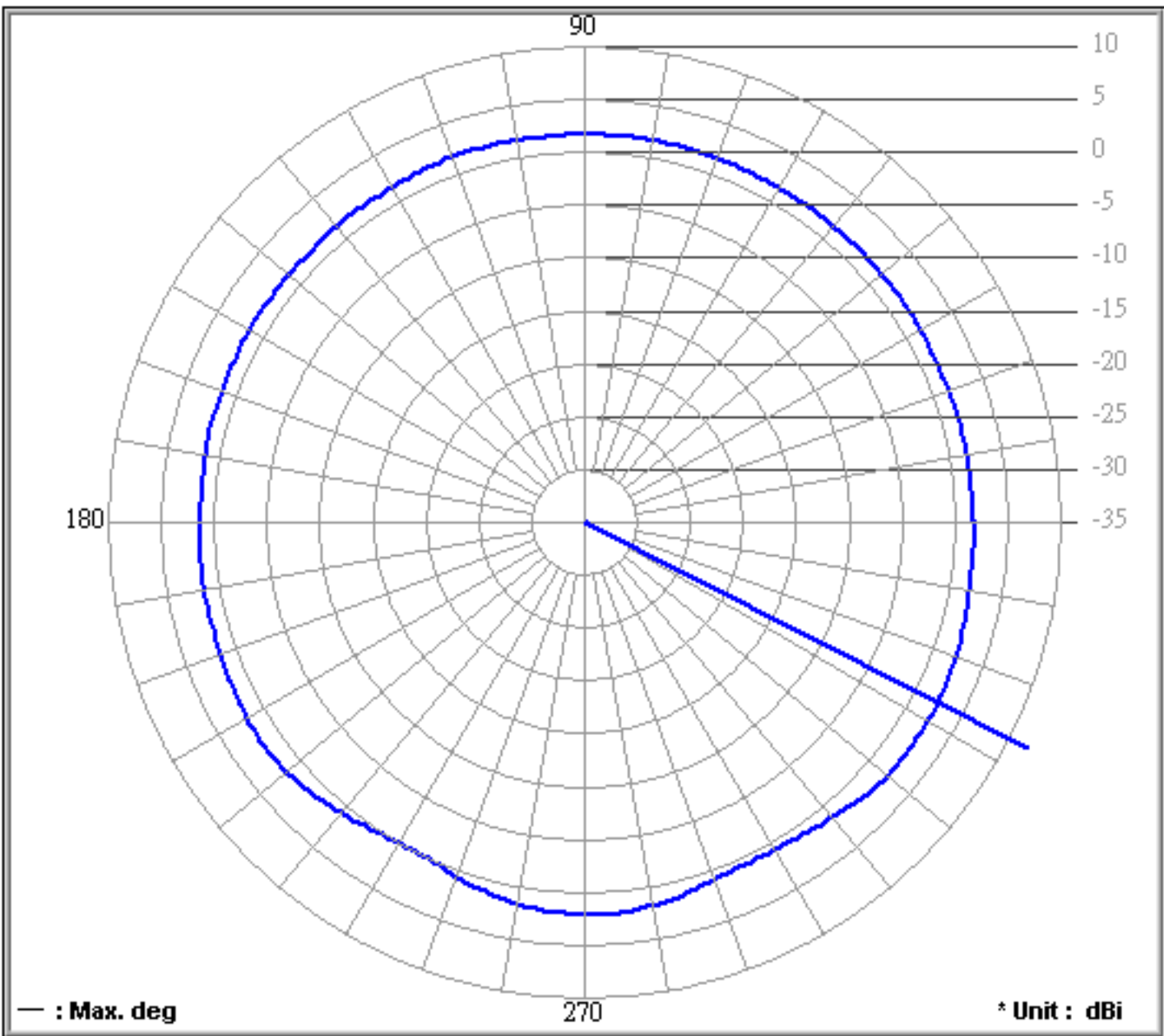
Date: **2008/1/4**

Time: **12:52:01**

Temperature (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz) : **2450.00** Antenna Polarity : **Vertical** Average Value (dB) : **1.58**
 Maximum Value (dB) : **2.50** Maximum Value (degree) : **333**
 Minimum Value (dB) : **-0.02** Minimum Value (degree) : **242**



Brand / Model : C223

Remark :

Sample No.

Tested by : ALEX

Location: **RF Chamber3**

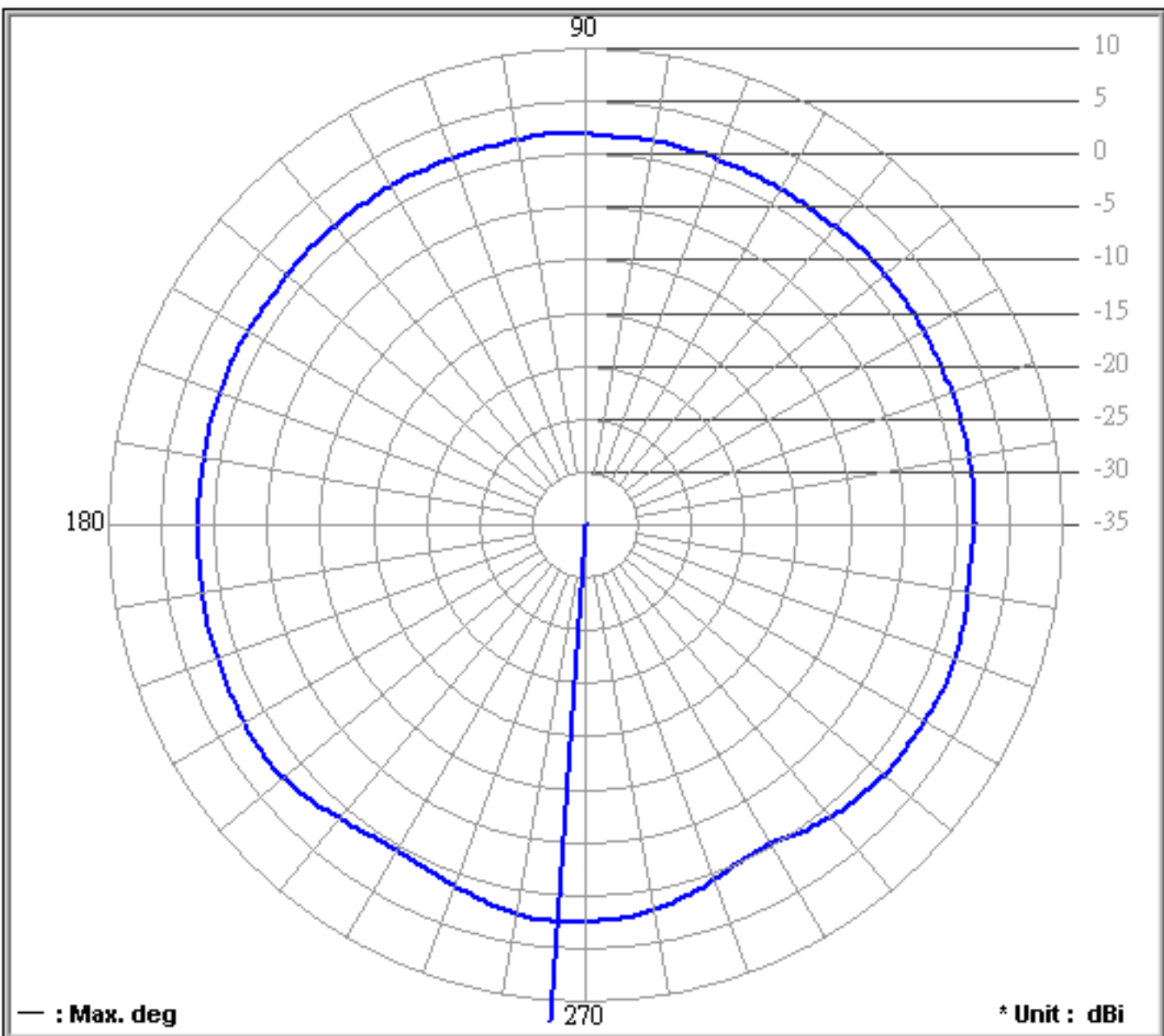
Date: **2008/1/4**

Time: **12:50:21**

Temperature (°C): **25**

Humidity (%): **75**

Approved by:



Frequency (MHz) : **2500.00**

Antenna Polarity : **Vertical**

Average Value (dB) : **1.69**

Maximum Value (dB) : **2.59**

Maximum Value (degree) : **266**

Minimum Value (dB) : **-0.24**

Minimum Value (degree) : **299**



泛用級 ABS, POLYLAC[®] PA-757

VIW

材料特性

特性(Properties)	測試方法(Test Method)	測試條件(Test Condition)	單位(Unit)	PA-757
引張強度 Tensile Strength	ASTM D638	1/8", 6 mm/min	Kg/cm ² (lb/in ²)	480(6800)
延伸率 Tensile Elongation	ASTM D638	1/8", 6 mm/min	%	20
彎曲強度 Flexural Strength	ASTM D790	1/4", 2.8 mm/min	Kg/cm ² (lb/in ²)	820(11660)
彎曲彈性率 Flexural Modulus	ASTM D790	1/4", 2.8 mm/min	Kg/cm ² (lb/in ²)	27000(380000)
IZOD 衝擊強度 Izod Impact Strength	ASTM D256(Notched)	1/4", 23°C 1/8", 23°C	Kg-cm/cm(ft-lb/in) Kg-cm/cm(ft-lb/in)	18(3.3) 20(3.7)
流動係數 Melt Flow Index	ASTM D1238	200°C, 5Kg	g/10min	1.8
硬度 Hardness	ASTM D785	1/2"	R Scale	116
比重 Specific Gravity	ASTM D792	23°C	-	1.05
軟化點 Vicat Softening Temp	ASTM D1525	1/8", 50°C/hr	°C(°F)	105(221)
熱變形溫度 H.D.T Annealed(85°C, 8hr) Unannealed	ASTM D648	1/4", 120°C/hr	°C(°F)	99(210) 88(190)
燃燒率 Flammability	UL 94	-	-	1/16"HB

以上數據僅代表一般通用數據，不代表每一產品的規格值

若有任何疑問請洽產品推廣課 06-2665000, 06-2663000



奇美實業股份有限公司

台灣省台南縣仁德鄉三甲村59-1號 電話：886-6-266-5000, 傳真：886-6-266-5555~7

1/2(A-GHE)

物質安全資料表

VIW

1. 物品及廠商資料

產品名稱	PA-707	PA-757	PA-757N	PA-717C	PA-727	PA-747	PA-709
製造商	奇美實業股份有限公司						
地址	台灣省台南縣仁德鄉三甲村59-1號						
電話	886-6-2663000 Ext.1361 (產品推廣課)						
緊急電話	886-6-2663000 Ext.1361 (產品推廣課)						
傳真電話	886-6-2667981						

2. 成品辨識資料

單一產品或混合物	單一產品
化學名稱	Acrylonitrile-Butadiene-Styrene Copolymer
含量	>98% (添加劑≤2%)
化學式	(C ₃ H ₃ N, C ₄ H ₆ , C ₈ H ₈) _x
CAS No.	9003-56-9
危害性不純物	無

3. 危害性分類

健康危害效應	無
環境影響	無
物理性及化學性危害	無
特殊危害	無

4. 急救措施

吸入	若吸入熔融樹脂逸出之氣體，將患者移至通風處，立即送醫。
皮膚接觸	若接觸到塑膠粒或塑膠粉末，以清水沖洗。
	若接觸到熔膠，以大量(肥皂)水沖洗患部及衣物，立即送醫。
眼睛接觸	若接觸到塑膠粒或塑膠粉末，以大量清水至少沖洗15分鐘。
	若有不適，立即送醫。
	若接觸到高溫熔融樹脂逸出之氣體，以大量清水至少沖洗15分鐘。
	若有不適，立即送醫。
吞食	催吐，以清水漱口，若有不適，立即送醫。

5. 消防措施

適用滅火劑	水、泡沫、乾粉
滅火時可能遭遇之特殊危害	無
特殊滅火程序	移除可燃物
消防人員之特殊防護設備	使用供氧式呼吸防護具

6. 洩漏處理方法

個人應注意事項	若塑膠粒或塑膠粉末殘留於地面上，可能會導致人員滑倒。
環境注意事項	為防止鳥類或魚類由排水系統中攝食，須徹底回收
清理方法	回收或廢棄

7. 安全處置與儲存方法

處置	操作處所須嚴禁煙火，做好整理整頓以避免粉塵累積。為防止塵爆，空氣輸送管路、袋濾器及儲槽須加裝靜電消除裝置，並確實接地。袋濾器之濾材採導電性材質。
儲存	存放於陰涼處所，避免直射陽光、雨淋及急遽之溫差。儲存處嚴禁煙火



奇美實業股份有限公司

台灣省台南縣仁德鄉三甲村59-1號 電話：886-6-266-5000, 傳真：886-6-266-5555-7

2/2(A-GHE)

8. 暴露預防措施

容許濃度(TLV)	未定
通風設備	排除粉塵、煙及氣體時使用
個人防護設備	呼吸防護 清洗成型機時使用防毒面具。 手部防護 接觸熔膠時使用皮手套。 眼睛防護 平時使用安全眼鏡，清洗成型機時使用護目鏡

9. 物理及化學性質

物質狀態	米白色膠粒
形狀	粒狀
顏色	米白色
氣味	無
閃火點	404 °C
自燃溫度	466 °C
爆炸界限	45 g/m ³
最小著火能量	3.6 mJ
最大爆炸壓力	7 × 10 ⁵ Pa
最大壓力上升速度	3.2 × 10 ⁷ Pa/S
比重	1.03-1.10
溶解度	無

10. 安定性及反應性

安定性	依一般操作及儲存程序時，安定性佳。
危害性分解物	CO, HCN, AN, SM and NO.
燃燒能量	3.53 × 10 ⁷ J/kg (8424 Kcal/kg)

11. 毒性資料

刺激性	分解後之塑膠所產生的煙及蒸氣會刺激眼睛。
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12. 生態資料

為防止被海洋生物或鳥類攝食，嚴禁丟棄至海洋或水域。

13. 廢棄物處理

適當之焚化爐燃燒或掩埋法。不適當之焚化爐可能會產生有毒氣體如 CO, HCN, AN and SM.

14. 運送資料

未分類

15. 法規資料

無

16. 其他資料

無

CHI MEI CORPORATION

59-1 SAN CHIA JEN TE TAINAN HSIEN TAIWAN

Material Designation: PA-757 (+)

Product Description: Acrylonitrile Butadiene Styrene (ABS), designated "Polylac" furnished as pellets.

Color	Min. Thick. (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str	IEC GWIT	IEC GWFI
ALL	1.5	HB	4	0	85	80	85	-	-
	3.0	HB	3	0	85	80	85	-	-
CTI: 0	IEC CTI: -	HVTR: 1			D495: 1			IEC Ball Pressure (°C): -	
Dielectric Strength (kV/mm): -		Volume Resistivity (10⁹ohm-cm): -			Dimensional Stability(%): -		ISO Heat Deflection (°C): -		
ISO Tensile Strength (MPa): -		ISO Flexural Strength (MPa): -			ISO Izod Impact (kJ/m²): -		ISO Charpy Impact (kJ/m²): -		
ISO Tensile Impact (kJ/m²): -									

(+) Optional prefix or suffix may be used to denote 0-0.5% acid scavengers.

Report Date: 6/23/1983

Underwriters Laboratories Inc®

UL94 small-scale test data does not pertain to building materials, furnishings and related contents. UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in components and parts of end-product devices and appliances, where the acceptability of the combination is determined by ULI.



CHI MEI CORPORATION

59-1 SAN CHIA, JEN TE, TAINAN COUNTY, TAIWAN R.O.C.

TEL: 886-6-266-5000,

FAX: 886-6-266-5617

Data issued: May 25, 2005

We hereby certify that the follow Polylac ABS resin (list as follow) produced by Chi Mei Corporation

GP-Grade	PA-707, PA-757, PA-717C, PA-727, PA-747, PA-709,
HF-Grade	PA-756, PA-756S, PA-756H, PA-756B, PA-716, PA-746, PA-746H, PA-737
Extrusion Grade	PA-747F, PA-747R, PA-747S, PA-709S
HH-Grade	PA-777B, PA-777D, PA-777E
Transparent Grade	PA-758

conforms to the requirement that no chemicals as following are added.

1. PBBEs (Poly Bromo Bisphenyl Ethers)
2. PBBs (Poly Bromo Bisphenyls)
3. Ozone Depleting Chemicals(CFC's&HCFC'S)
4. Chlorinated Paraffin (C10-C13)
5. Polyvinyl Chloride (PVC)
6. Mercury(Hg) and its compounds,
7. Lead(Pb) and its compounds,
8. Cadmium(Cd) and its compounds,
9. Chromium(Cr) and its compounds,
10. Arsenic(As) and its compounds,
11. Antimony(Sb) and its compounds,
12. Selenium(Se) and its compounds,
13. Barium(Ba) and its compounds,
14. Chromium(Cr) VI and its compounds
15. Organic tin compounds
16. Polychlorinated Biphenyls(PCB's) and Terphenyls(PCT's)
17. Poly naphthalenes
18. Azo compounds
19. Polychlorinated biphenyl
20. Polychlorinated naphthalene
21. Asbestos
22. Phthalates

With regard to composition of above grade, they can comply with the Directives of RoHS (2002/95/EC), 2003/11/EC, TCO'99, Blue Angel and SONY (SS-00259)

Sincerely Yours,

Eric Chou

Manager

Department of Product Strategy & Service

This statement is based on our current level of knowledge and covers the above resins as supplied by CHI MEI CORPORATION at the date of issue. Since conditions of use are outside CHI MEI CORPORATION's control, CHI MEI CORPORATION makes no warranties, express or implied, and assumes no liability in connection with any use of this information.



Aliner Industries, Inc.

Material Certificate KUON CHEN HARDWARE CO., LTD

Material	FREE CUTTING BRASS ROD.	Alloy no.	C 3604 BD	
Chemical Testing				
Testing method	X Ray Spectrogram Analysis			
Testing Equipment	Vacuum X Ray Spectrograph			
Compounds	Standard content(%)	Sample content (%)		
Cu	57.0~61.0	57.88		
Zn	REMAINDER	REMAINDER		
Fe	<0.5	-----		
Pb	1.8~3.7	3.18		
Other	<1.2	0.7		
Mechanical Testing				
Testing method	Hydraulic pulling test			
Equipment used	Computer universal testing machine		Electronic hardness testing machine	
Physical characteristic	Tensile-strength	Yield strength	Elongation	Hardness
Required reading	Kg/mm ²	Kg/mm ²	%	HRB
Actual reading	Kg/mm ²	Kg/mm ²	%	HRB
Description				

BRUSHWELLMAN
ENGINEERED MATERIALS

Shoemakersville Road, Shoemakersville, PA 19555
Phone: 610-562-2211 ; Fax: 610-562-6610

Advance Technical Products Limited
1003 Pacific Trade Centre
2 Kai Hing Road, Kowloon Bay
KOWLOON
HONG KONG

Material Certificate				
Date	05/02/2003			
Purchase order item/date	S81249 / 04/02/2003			
Delivery item/date	80196127 900001 / 05/09/2003			
Order item/date	117399 000010 / 04/03/2003			
Customer nbr	Customer part nbr			
ZQ000				
Customer spec	BWJ-RW5.00-2			
Rev	Type	Comp	Class	Grade

4.0

Our Material: K549121100 ROD CD M25 H .15748 X *TM0310-R*

Brush Wellman testing for chemical composition (by Optical Emission Spectrometry), is conducted at our Elmore, OH Laboratories. Testing of mechanical or physical properties is conducted at Laboratories which are accredited by American Association for Laboratory Accreditation.

This material was inspected and tested for conformity as required in accordance with the noted part, specification, and revision number. The quantitative test data obtained from these tests are available for review by the buyer.

Batch 0000319331 / Quantity 408 LBS

Characteristic	Unit	Value	Specification Limits	
			Lower	Upper

CDA (UNS) Alloy	-	C17300		
ASTM Temper	-	TD04		
Brush Spec Nbr.	-	BWJ-RW5.00-2		

Dimensional Attributes

Diameter	-	0.15748		
Diameter Plus	-	0.00059		
Diameter Minus	-	0.00059		
Length	-	98.42525		
Length Plus	-	0.25000		
Length Minus	-	0.00000		



Mechanical/Physical Properties

Grain Size	mm	0.015 0.024		0.050
Tensile	kgf	71.0 72.0	67.0	77.0
Yield	kgf	58.0 61.0	52.0	74.0
Elongation	%	15.0	10.0	
Hardness Scale	-	HR30T		
Hardness Value		79.0 80.0	77.0	83.0

The material supplied with this certification has not been heat treated. The following properties were achieved in Brush Wellman's laboratory. They represent what you may expect after heat treating the material, using the time and temperatures shown.

R1 Temper	-	HT		
R1 Heat Treat Time	hrs	2.00	2.00	2.00
R1 Heat Treat Temp	°C	316	316	316

BRUSHWELLMAN

ENGINEERED MATERIALS

Advance Technical Products Limited
 1003 Pacific Trade Centre
 2 Kai Hing Road, Kowloon Bay
 KOWLOON

Delivery item/date
 80196127 900001 /
 05/09/2003

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R1 Tensile	kgf	137.0 138.0	130.0	158.0
R1 Yield	kgf	129.0 130.0	116.0	
R1 Elongation	%	2.0 3.0	2.0	
R1 Hardness Scale	-	HR30N		
R1 Hardness Value		62.0	53.5	63.0

Chemistry Composition

Beryllium	%	1.83	1.80	2.00
Ni+Co	%	0.25		0.35
Ni+Co+Fe	%	0.28		0.60
Silicon	%	0.04		0.15
Aluminum	%	0.02		0.10
Lead	%	0.34	0.20	0.40
Alloy Balance	-	COPPER		

Lot Identification

Heat Number	-	28176
Piece Lot Number	-	11739911

Jack Gatehouse

Quality Representative

TM0310-R



Properties of various fluoropolymers

	Properties	Unit	ASTM test method	PTFE	
PHYSICAL	Melting point	℃	-	327	
	Specific gravity	-	D792	2.14-2.20	
	Tensile strength	MPa (kgf/cm ²)	D638	13.7-34.3 (140-350)	
	Elongation	%	D638	200-400	
	Compressive strength	MPa (kgf/cm ²)	D695	11.8 (120)	
MECHANICAL	Impact strength (Aizot)	J/m (kgf·cm/cm)	D526A	160 (16.3)	
	Hardness (Rockwell)	-	D785	-	
	Hardness (Shore)	-	D2240	D50-55	
	Bending elasticity	GPa (10 ⁹ kgf/cm ²)	D790	0.55 (5.6)	
	Tensile Strength	GPa (10 ⁹ kgf/cm ²)	D638	0.40-0.55 (4.1-5.6)	
THERMAL	Coefficient of dynamic friction	-	0.69MPa (7kgf/cm ²) 3m/min	0.10	
	Thermal conductivity	W/(m·K) (kcal/(m·hr·℃))	C177	0.25 (0.23)	
	Specific heat	J/(℃·g) (cal/(℃·g))	-	1.05 (0.25)	
	Coefficient of linear expansion	10 ⁻⁵ /℃	D696	10	
	Ball pressure	℃	-	180	
	1.81MPa (18.5kgf/cm ²)	℃	D648	55	
	0.45MPa (4.6kgf/cm ²)	℃	-	121	
	Max. Service Temperature	℃	Unloaded	260	
	Volumetric resistance ratio	Ω·cm	D257 (50% RH, 235)	>10 ⁹	
	Dielectric breakdown strength (Short term)	MV/m kV/mm (3.2mm thickness)	D149	19	
ELECTRICAL	Dielectric constant	60Hz	pF/m	D150	<18.6 (<2.1)
		10 ³ Hz	pF/m	D150	<18.6 (<2.1)
		10 ⁶ Hz	pF/m	D150	<18.6 (<2.1)
	Dielectric dissipation factor	60Hz	-	D150	<0.0002
		10 ³ Hz	-	D150	<0.0002
		10 ⁶ Hz	-	D150	<0.0002
	Anti arcing property	sec	D495	>300	
Water absorption (24h)	%	D570	0.00		
3.2mm thickness combustibility	-	(UL-94)	V-0		
DURABILITY	Oxygen index	-	D2863	>95	
	Effect of direct sunlight	-	-	No	
	Effect of weak acid	-	D543	No	
	Effect of strong acid	-	D543	No	
	Effect of weak alkali	-	D543	No	
	Effect of strong alkali	-	D543	No	
	Effect of solvent alkali	-	D543	No	



SPECIFICATION FOR APPROVAL

DOCUMENT: A30178B001

STYLE : 200°C 30V
RG-178B/U

SIZE: 7/0.102 SCCS

RECOGNIZED:

WONDERFUL WIRE CABLE CO.,LTD

OFFICE : 72WU KONG 6TH ROAD,
WU KU IND. DISTRICT
TAIPEI HSIEN, TAIWAN

FACTORY : 17 PEI YUAN ROAD,
CHUNG-LI IND. PARK
TAIWAN, R.O.C.

TEL : (02)22988033
FAX : (02)22988031-2

TEL : (03)4527777
FAX : (03)4517214

WONDERFUL WIRE CABLE CO., LTD

SPECIFICATION

STYLE	200°C 30V COAXIAL	DOCUMENT NO : A30178B001	
SIZE	RG-178B/U	ESTABLISHED DATE: 2000/06/29	
STANDARD : MIL-C-17			
Conductor	Size	AWG	30
	Material	----	Silver-Coated Copper Clad Steel
	Conductors No.	----	7
	Conductors Size	mm	0.102
	O.D.	mm	0.30
Insulation	Average Thickness	mm	0.28
	Diameter	mm	0.86
	Material	----	FEP
	Color	----	Clear
Braid	Material	----	Silver-Coated Copper
	Construction	mm	16 / 3 / 0.10
	Coverage	%	95
Jacket	Average Thickness	mm	0.25
	Diameter	mm	1.80 ±0.05
	Material	----	FEP
	Color	----	Brown
Marking	M17/93-RG178B/U WONDERFUL		
Drawing			

AK001/210X297/1.0

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EDITION : 1.0

REVISED DATE :

MAKER :

CONFIRM :

APPROVAL :

WONDERFUL WIRE CABLE CO., LTD

SPECIFICATION

Electrical & Physical Properties						
Item		RG-178B/U				
Rating Temp Voltage		200°C 30V				
Conductor Resistance		838.0 OHM/KM/20°C MAX.				
Insulation Resistance		100 MEGA OHM/KM MIN.				
Dielectric Strength		AC 1.0 KV/Minute				
Spark Test		0.5 KV				
Insulation	Unaged	Tensile Strength	2500 PSI MIN.(1.76 Kg / m m ²)			
		Elongation	200% MIN.			
	Aged	Tensile Strength	UNAGED MIN.75%(168HRS×232°C)			
		Elongation	UNAGED MIN.75%(168HRS×232°C)			
Jacket	Unaged	Tensile Strength	2500 PSI MIN.(1.76 Kg / m m ²)			
		Elongation	200% MIN.			
	Aged	Tensile Strength	UNAGED MIN.75%(168HRS×232°C)			
		Elongation	UNAGED MIN.75%(168HRS×232°C)			
Nom. Impedance		50 Ohms				
VSWR		MAX. 1.3 at 0.4G~3GHz				
Nom. Vel. of Prop.		69.5%				
Flame Test		VW-1 OK				
Attenuation (dB/100m)	50MHz	100MHz	400MHz	900MHz	1.8GHz	3GHz
	34.4	45.9	91.8	139.4	207.5	308.2

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