TO:	凱碩科技股份有限公司
10.	

SPECIFICATION FOR APPROVAL

DESCRIPTION :	2.4G ANTENNA-SMA(MALE-RP)CONNECTOE
PART NO:	2AN-C201BK-019R
慶陞 PART NO:	6602103081-000
DATE:	2009/07/02

PLEASE RETURN TO US ONE COPY OF "SPECIFICATION FOR APPROVAL "WITH YOUR APPROVED SIGNATURES

APPROVED SIGNA	TURES	
		龍陸工業股份有限公司 統一機關縣 學界學用拿 第22132286 TEL:(03)4353551 負責人:甘錦茂 學方書仁里書意第211季刊等

廣州市慶隆電子塑膠五金有限公司 蘇州慶旺電子科技有限公司 慶宏電子(東莞)有限公司



桃園縣中壢市普忠路 211 巷 20 號

FAX: 886-3-4353951 TEL: 886-3-4353551

Http://www.kinsun.com e-mail: jason@kinsun.com

TECHNICAL DATA

Electrical Properties

Frequency Range: 2.4~2.5 GHz

Impedance: 50 Ohm nominal

 $V.S.W.R: \leq 2.0$

Gain: 2dBi±0.25

Radiation: Omni

Polarization: Vertical

Electrical Wave: Dipole array

Connector: SMA (MALE-RP) CONNECTOR

Mechanical Properties

Antenna Cover: PLASTIC

Color: BLACK

Operation Temperature:-20°℃~+65°℃

Storage Temperature:-30°C ~+75°C

Ø7.80 <u>∕2</u>€ 0 Ø9.30

MECHANICAL

Antenna Cover: PU

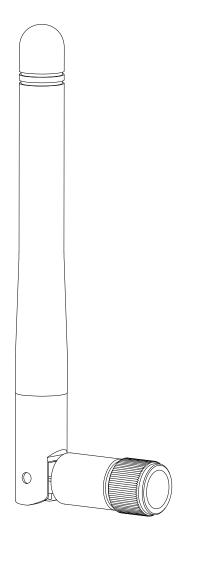
Antenna Base: PC UL 94V-0

Color: Black

ELECTRICAL

Frequency: 2.4GHz

Connector: SMA-Male-RP



※ 凡標諡 記號者,為品管檢驗之尺寸

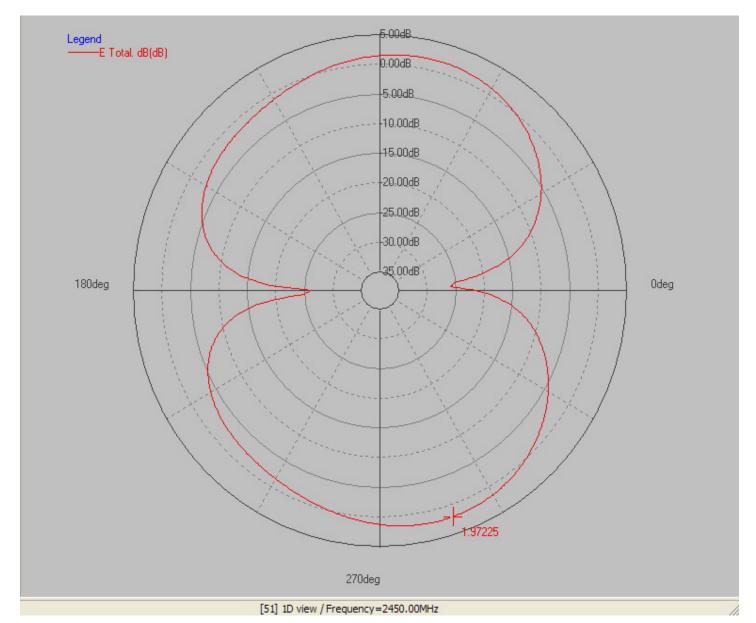
設計 DR. Marco 94/01/03	准 APPD. Jerry 94/01/03	容許公差 .XXX .XX .XX	TOLERANCE ±0.10 ±0.25 ±0.38	品名 ARTICLE	6602-2	2.4G-S	MA
版本說明 	REVISION NOTE	X ANG	±0.50 ±3°	圖號 DWG NO.	6602	2103082	1
<u>KINSU</u>	<u>JN</u> 慶陞			單位 UNIT mm	比例 SCALE 1.5/1	張數SHET 1/1	版本 REV. A



http://www.kinsun.com TEL: (03) 4353551 FAX: (03) 4353951

Brand / Model: 6602103081-000

Remark: 2450MHz Tested by: Nick Dai



--: Max. deg *Unit: dBi

Frequency(MHz): 2450.00 Pattern Field: E plane Average Gain(dB): -2.46dB

Maximum Gain(dB) : **1.97dB** Maximum Gain(degree) : **-71.43**

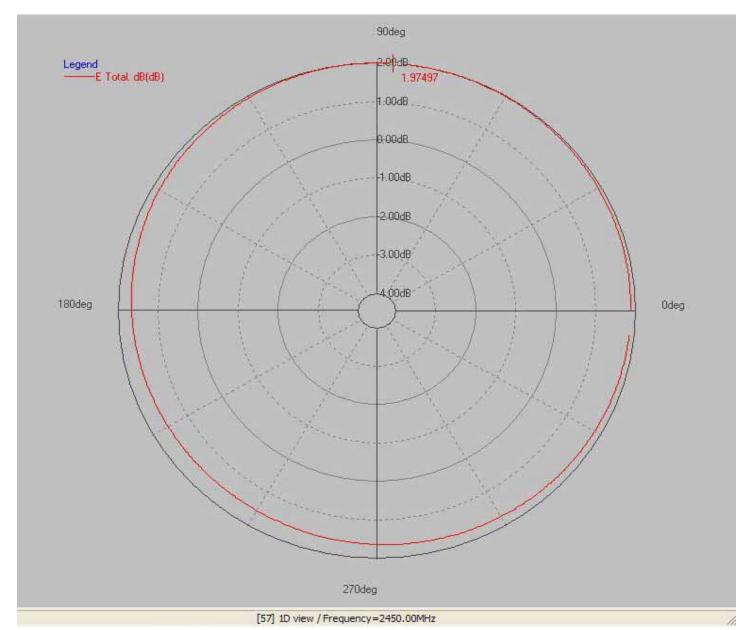
Minimum Gain(dB) : -26.29dB Minimum Gain(degree) : -180.00



http://www.kinsun.com TEL: (03) 4353551 FAX: (03) 4353951

Brand / Model: 6602103081-000

Remark: 2450MHz Tested by: Nick Dai

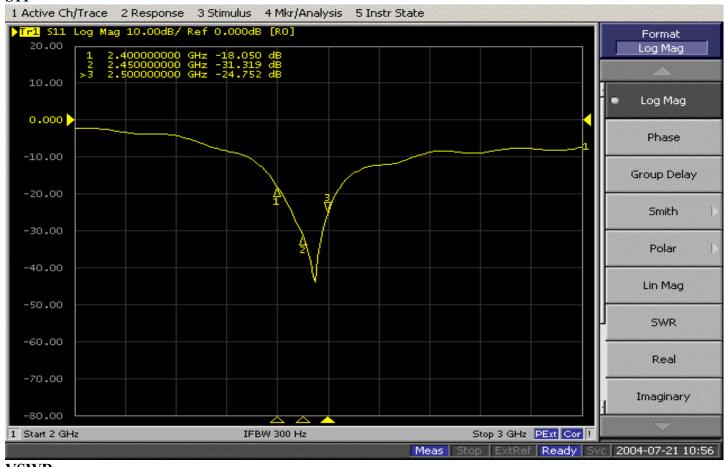


--: Max. deg *Unit: dBi

Frequency(MHz): 2450.00 Pattern Field: H plane Average Gain(dB): 1.78dB

Maximum Gain(dB) : **1.97dB** Maximum Gain(degree) : **85.50**

Minimum Gain(dB): 1.54dB Minimum Gain(degree): 228.81







Elastollan® S Series

Technical Bulletin

Polyester Type

Elastollan® S series of products are polyester-based thermoplastic polyurethanes that exhibit good hydrolytic stability. They also exhibit good oil, fuel and solvent resistance. These products can be injection molded, blow molded and extruded. All grades should be dried before processing. Elastollan® products can be stored for up to 1 year in their original container. Containers should be stored in a cool, dry area.

Extrusion grades: S90A

Injection molding grades: S80A to S60D

Physical Properties	Units	ASTM Method	S80A ³	S85A³	C00 43	COF 43	C00 A3	CCOD3
	Ullits	Method	SOUA	585A	S90A ³	S95A ³	S98A ³	S60D ³
Specific gravity	gr./cm ³	D-792	1.21	1.22	1.23	1.23	1.24	1.25
Hardness	Shore A D	D-2240	80 ± 2	85 ± 2	92 ± 2 41 ± 2	96 ± 2 48 ± 2	98 ± 2 54 ± 2	- 60 ± 2
Tensile strength	MPa psi	D-412	27.5 4000	34 4900	39 5600	42 6100	42 6100	43 6200
Tensile stress @100 % elongation	MPa psi	D-412	5.5 800	6.9 1000	11 1550	14 2000	19 2700	22 3200
@300 % elongation	MPa psi		9.6 1400	14 1980	20 2900	26 3800	32 4700	37 5300
Elongation @brk.	%	D-412	650	690	540	510	425	450
Tensile set @brk.	%	D-412	45	35	55	70	80	110
Tear strength	N/mm lb./in.	D-624 DIE C		104 590	128 730	154 875	185 1050	195 1150
Abrasion resistance	mg (Loss)	D-1044 ² (Taber)	25	25	25	30	50	50

Test samples were cured 20 hours @ 100 ℃ before testing.

NOTE: 1 These products can only be ordered in minimum quantities. Please contact your sales representative for details.

H-18 wheel, 1000 gm weight and 1000 cycles.

Caution: Contact with product dusts from regrinding operations may cause temporary irritation of the eyes and the respiratory tract. Use with local exhaust. Under hot melt processing conditions (170-230 °C), wear personal protective equipment to prevent thermal burns.

First aid: Eyes-Flush eyes with flowing water at least 15 minutes. If irritation develops, consult a physician. Skin-Skin contact with hot melt may cause thermal burns. Call a

First aid: Eyes-Flush eyes with flowing water at least 15 minutes. If irritation develops, consult a physician. Skin-Skin contact with hot melt may cause thermal burns. Call a physician immediately. Inhalation-If vapors generated from the hot melt process are inhaled, move to fresh air. Aid in breathing. If breathing difficulties develop, see a physician immediately.

In case of fire: Use water fog, foam, CO₂, or dry chemical extinguishing media. Firefighters should be equipped with self-contained breathing apparatus and turnout gear.

Disposal: Waste material, unused contents and empty containers must be disposed of in accordance with applicable local, state or federal regulations. Refer to our Material Safety Data Sheet for specific disposal instructions.

In case of chemical emergency: Call CHEMTREC day or night for assistance and information concerning spilled material, fire, exposure and other chemical accidents. 800-424-9300

Attention: This product is sold solely for use by industrial institutions. Refer to our Material Safety Data Sheet regarding safety, usage, applications, hazards, procedures and disposal of this product. Consult your supervisor for additional information.

No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth or that the products designs, data or information may be used without infringing the intellectual property rights of others in no case shall the descriptions information, data or designs provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, data and information furnished by BASF hereunder are provided gratis and BASF assumes no obligation or liability for the description, designs data and information given or results obtained, all such being given and accepted at your risk.

BASF Corporation, 1609 Biddle Avenue, Wyandotte, Michigan 48192 (800) 892-3111 x21, www.basf.com/elastollan ©BASF Corporation 2000



Products with an N designation do not contain hydrolytic stabilizers. Contact Elastollan Technical Service Rep for further information

日本帝人化成聚碳酸脂樹脂 POLYCARBONATE RESIN "TEIJIN PANLITE"

規 格	型號	特性	比重	透 光 辛	学生丰	9 度	熱 費 形 選 一度	松 起 崇	防火等額
R 16	22 25	14 15	g/cm³	3rnm 厚度 %	kg/cm²	3mm 厚度 kg.cm/cm	12.5kg °C	選问 %	UL-54
高近擊役	1.E-1250	高衝擊、射出級	1.18	半透明	21,500	85	134	0.6 ~ 0.9	äH
	LN-1250 LN-2250	対出防火 V-0 县 难 型	1.22	85	22,800	80	136	0.5 ~ 6.7	V-0
PU 21 RL	1.N-1250G	射出防火 V-0 島雕型	1.22	半透明	23,000	80	133	0.5 - 0.7	V-0
光高反射级	I.D-1000RM	全反射的衝擊地光性強	1.28	光線反射率 2mm 96以上	25,000	80	134	0.4 ~ 0.6	
	G-3110	射出玻璃鐵罐10%	1.27	半这明	36,000	9	146	0.3 ~ 0.5	V-2 V-0
板球鐵框型化級 PANLITE-G GLASS	G-3115	村出被瑪麗姓 15%	1.30	半透明	45,900	12	147	0.3 ~ 0.1	V-2 V-0
FIBRE REIN- FORCED GRADE	G-3120	計出玻璃鐵路 20 %	1.34	华透明	55,000	14	148	0.1 - 0.3	V-2 V-1
	G-3130	別出表稱譯獎 30 %	1.43	华感明	74,000	16	149	0.3 - 0.5	V-2 V-1
OFF IT W	G-3110R	射出、易應型含恶酒繊維 10%	1.27	不透明	35,500	9	145	5.3 ~ 0.5 0.4 ~ 0.6	V-2 V-0
PANLITE-G MOLD- RELEASE GRADE	G-3130R	対出、易華型含玻璃建設 30%	1.43	不透明	74,650	12	150	0.02 - 0.5	V-2 V-1
		射出、医翅曲含皮制護律 10%	1.27	华透明	34,000	5	140	0.3 - 0.5	V-0
外類自然級	Crest 1.1.534	射出、低鐵曲台臺灣議議 15%	1.30	华送明	- 40,300	6	-	0.2 - 0.4	
DANG COOLS COOL	G-3120H	射出,低翅白含板塔鐵缸 20 %	1.34	半透明	47,000	6		0.2 ~ 0.4	
RADE	0-312414	的出、低级由台坡湖建程 21 %		半透明	52,500	7		0.1 ~ 0.3	
7	G-3130H	射出、低翅曲台灰熔煤堆。 30%	1.43	华达明	£5,000	9	142	0.1 ~ 0.3 0.3 ~ 0.5	V -2 V-1
医细曲数	G-3110M	対出超低速曲・外要員好 含版碼 10 %	1.27	半透明	25,000	8		0.5 ~ 0.7	V-2 V-0
		1出出版語句・計劃以行法報書は25	1.30	半这明	28,500	5	140	0.1 ~ 0.5	V-2
		出版位置的一件数是行金表面20%	1.34	半送明	31,000	4		0.4 - 0.5	V-2
ADS	3-3130M	打出超低烟曲、外觀臭好 台遊議 30 %	1.43	丰芝明	40,000	2	135	0.3 - 0.5	V-2 V-1
	N-2110	対出防火含玻璃護誰 10	1.28	半透明	35,000	7	145	0.3 ~ 0.5	V-0
支档域推进化键卷版 TLAME RETARD C	N-3123	対出防火台玻璃護理 20 %		半透明					V-)
RADE C	N-3120 5	时出防火合玻璃鐵譜 30 %	1.44	半透明	75,000	12	149	0.02 ~ 0.2	V-0
RICTION & ASRA-	5-3130	対出・耐磨・粉曲含玻璃	1.51	半透明	77,000	14	150	0.02 - 0.2	V-1
RICTION & ASRA- ION RESISTANT I医、配触数		業2 30 % 財出政際・耐煙	1.28	半透明	21,500	12		0.5 ~ 0.7	V-0

①以上表所列数值 僅供參考用

TEIJIN CHEMICALS LTD

HIBIYA DAIBIRU BLDG 2-2 UCHISAIWAI-CHO I-CHOME CHIYODA-KU TOKYO 100-0011 JAPAN

Material Designation: LN-1250G#(f1)*

Product Description: Polycarbonate (PC), designated "Panlite" furnished as pellets, powder.

(f1)	*					ALL	Color
Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL	Material designation may be suffixed with any one or two letters.	CTI: 3	6.0	3.0	1.5	1.0	Min. Thick (mm)
y be suffixed with with respect to ear	be suffixed with		V-0	V-0	V-0	V-0	Flame Class HWI
osure to l	any one o	HVTR: 3	2	ω	w	-	HWI
Ultraviole	r two lette	R: 3	0	0	0	2	HAI
t Light, Wat	ers.	D495: 6	125	125	125	125	RTI Elec
Water Exposure		5: 6	115	115	115	105	RTI Imp
and Immer		IE.	125	125	125	115	RTI Str
sion in accordan		IEC BP: -		ı	,		HAI RTI Elec RTI Imp RTI Str IEC GWIT
ce with UL			ı	r	1	ı	IEC GWFI

All colors except clear.

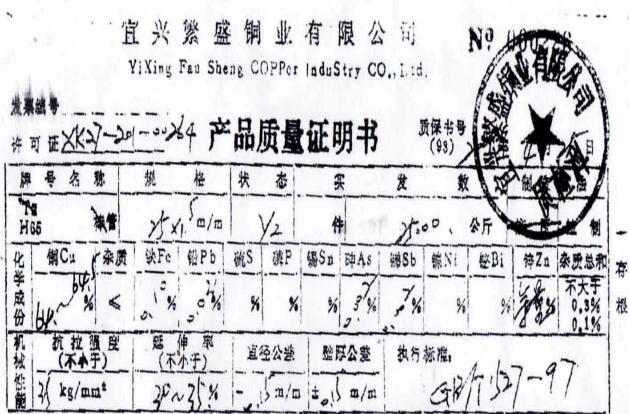
Report Date: 05/11/1989

Underwriters Laboratories Inc®

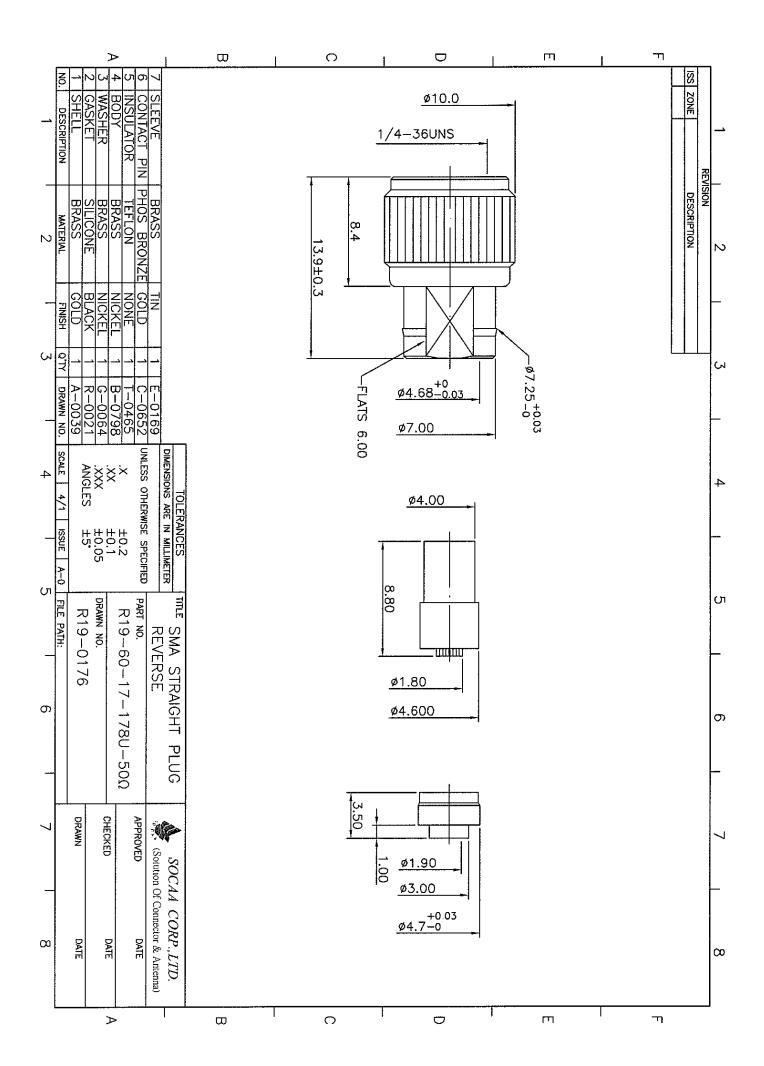
699748006

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

型與



往,(1)如对本产品有异议者。请于查周内提出,逾期本厂不予受惠。(2)在提出时请领明质保书编号。用户单位了子、子、子、子、子、子、子、子、子、





矽原精密電子股份有限公司

SOCAA CORP.,LTD. (Solution Of Connector & Antenna Corp.Ltd.)

樣品確認書

廠商	Ħ		品名:R19-60-17-178U-50	圖號:R19-	0176	數量:5 PCS		
名稱: 慶陞		慶陞	Ω	國 奶	0110	公主 0 100		
NO		檢驗項目	材質:JT. 3GP. 80N/2. 5G	檢驗時間:	2009 年	04 月 16 日		
		單位:mm	研發單位量測值(Max	-Min)		∠量測值(Max~Min)		
	A	ψ10.0±0.2	ϕ 10. 00- ϕ 10. 02		φ1	10. 00- φ 10. 01		
	В	ϕ 7. $25^{+0.03}_{-0}$	φ7. 26- φ7. 26		ψ	7., 26- φ 7., 27		
	С	φ7.00±0.1	ϕ 7. 01- ϕ 7. 02		ψ	6. 99- <i>φ</i> 7. 01		
尺	D	ϕ 4. 68 $^{+0}_{-0.03}$	φ 4 66- φ 4 68		φ4.67-φ4.68			
寸	E	8.4±0.2	8. 31-8. 35			8. 27-8. 34		
檢	F	13.9±0.3	13. 81-13. 84		-	13. 82-13. 83		
驗	G	φ 4. 00±0. 1	φ 3. 99- φ 4. 01		ψ	5 3. 98- φ 3. 99		
	Н	φ 4. 600±0. 05	φ 4. 59- φ 4. 63		4	$64.60-\psi 4.62$		
	I	8.80±0.1	8. 76-8. 79		8. 74-8. 76			
	J	ϕ 4. 7^{+0}_{-0}	φ 4 71- φ 4. 72		φ 4., 71- φ 4., 73			
	K	3.50±0.1	3. 47-3. 50		3. 47-3. 51			
		成型	OK			OK		
.,		電鍍	OK			OK		
外觀		主體	OK			OK		
		公母配合	OK			OK		
		四腳測試	N/A			N/A		
		推力測試	N/A	···		N/A		
特		扭力測試	OK			OK		
性		短通路測試	N/A			N/A		
	外殼轉動		OK			OK		
香鱼	更記	事/處理對策:		檢 測 證	:明附帶	綜合判定		
王?	× 80	47 West 21 W]		☑ 合格□ 不合格		
		e.æ. MAND	V 研發:	CILAD		F-QP-FD-013-01A		

品保: MANDY

研發:CHAD

F-QP-FD-013-01A

TESTING FOR SALT WATER MIST

TESTING DTAE: 04/14	TESTING TIME: 48 HOUR	
COMPANY:SOCAA CORP.,LTD	ERIAL: BRASS PLATED:NICKEL	
COMMODITY:R19-60-17-178U-50Ω		CHARACTER:
TESTING CONDITION: SATURATION TEMPRATURE: 47 °C ACCORDING TO		AIR COMPRESS: FIRST COMPRESSION 2 SLIGHT COMPRESSION 1.
SATURATION TEMPRATURE:	TESTING TEMPERATURE: 35 °C	
CONSENQUENCE	DETERMINI CORRODED PERCENT。	G TO C.N.S GRADE, MG 9.8 GRADE AND ITS SURFACE IS UNDER 0.02
DEM A DIZ C		MAKER
REMARKS		CHAD

SPECIFICATION FOR APPROVAL

DOCUMENT: A30178B003

STYLE: RG-178B/U

SIZE: 7/0.102 SCCS

RECOGNIZED: UL 1979

WONDERFUL HI-TECH CO.,LTD

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

TAIPEI HSIEN, TAIWAN

TEL: (02)22988033 FAX: (02)22988031-2 FACTORY: 17 PEI YUAN ROAD,

CHUNG-LI IND. PARK TAIWAN, R.O.C.

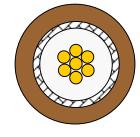
TEL: (03)4527777 FAX: (03)4517214

WONDERFUL HI-TECH CO., LTD SPECIFICATION

STYLE	105°C 30V	DOCUMENT NO:
STILE	UL1979	A30178B003
SIZE	RG-178B/U	ESTABLISHED DATE: 2003/09/22
STANDA	RD: MIL-C-17	

			· · · · · · · · · · · · · · · · · · ·
	Size	AWG	30
	Material		Silver-Coated Copper
Conductor	IVIAICITAI		Clad Steel
	Conductors No.		7
	Conductors Size	mm	0.102
	O.D.	mm	0.30
	Average Thickness	mm	0.28
Insulation	Diameter	mm	0.86 ± 0.03
	Material		FEP
	Color		Clear
Braid	Material		Silver-Coated Copper
Diaiu	Construction	mm	16 / 3 / 0.10
	Coverage	%	95
	Average Thickness	mm	0.25
Jacket	Diameter	mm	1.80 ± 0.05
	Material		FEP
	Color		Brown
Marking			

Drawing



AK001/210X297/1.0 PAGE: 1

EDITION: 1.2

MAKER: C.Y.CHEN CONFIRM: S.N.WONG APPROVAL: W.J.WANG

WONDERFUL HI-TECH CO., LTD. SPECIFICATION

Electrical & Physical Properties									
Item				RG-178B/U					
Rating Temperature -					-55°C	~ +200	$^{\circ}\! C$		
Conductor	Resista	nce			838	OHM/KN	1/20°C M	AX.	
Insulation	Resistan	ice			3000 1	MEGA OF	HM-KM M	IIN.	
Dielectric	Strength	_			AC 1.	0 KV/Min	ute		
Spark Test	t				2.5 KY	V			
	Llacad	Ten	sile Streng	gth	2500 1	PSI MIN.(1.76 Kg/	m m²)	
Insulation	Unaged	Elo	ngation		200%	MIN.			
	Acad	Tensile Strength			UNAGED MIN 75%(168HRS×232°C)				
	Aged	Elongation			UNAGED MIN 75%(168HRS×232℃)				
	Unaged	Tensile Strength			2500 PSI MIN.(1.76 Kg / m m²)				
Jacket		Elongation			200% MIN.				
	Aged	Tensile Strength			UNAGED MIN.75%(168HRS×232℃)				
		Elongation			UNAGED MIN.75%(168HRS×232°C)				
Nom. Imp	edance				50 Ohms				
Nom. Cap	acitance				95.8 pF/m				
Nom. Vel.	of Prop.				69.5%				
VSWR ((0-6 GH)	HZ)			UNDER 1.3				
THERMAL SHOCK				LESS 1mm at 232°C/1HR					
BEND RADIUS				9mm Mininum					
Attenuation	n 100M	Hz	1GHz	1.8	8GHz	2.4GHz	5.2GHz	6GHz	
(dB/100m) 46		155	,	295	340	505	550	

AK001/210X297/1.0

EDITION: 1.2

MAKER: C.Y.CHEN CONFIRM: S.N.WONG APPROVAL: W.J.WANG

PAGE: 2