TO:	凱碩科技股份有限公司
10.	

## SPECIFICATION FOR APPROVAL

DESCRIPTION :	2.4G-ANTENNA	(WHITE)	+1.130	(230mm)	+CORE+UFL

PART NO: 2AN-C101WE-049R

**慶**陞 PART NO: 6602113053-230

DATE: 2010/09/06

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

APPROVED SIG	GNA TURES	
		性工業股份有限公司 統一機圖縣中用章 統一發票專用章 第 221.32286 圖 TEL:(03)4353551 負責人:甘烯茂 學育書仁里書忠寫211表別第

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

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

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: UFL** 

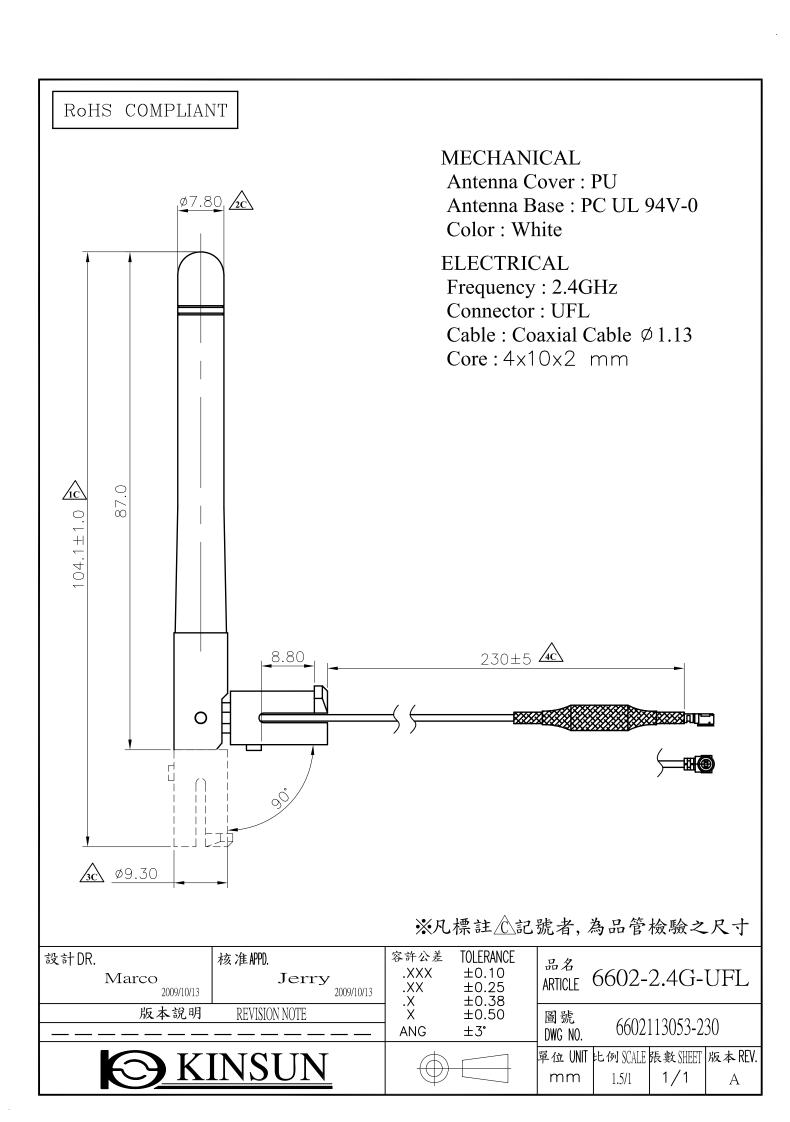
## **Mechanical Properties**

**Antenna Cover: PLASTIC** 

**Color: WHITE** 

**Operation Temperature:-20°**℃~+65°℃

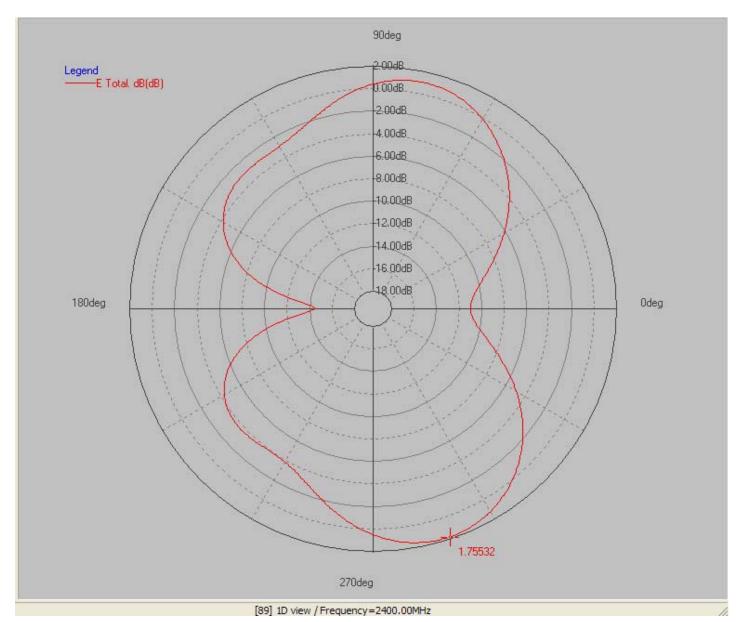
Storage Temperature:-30°C~+75°C





Brand / Model: 6602113053-230

Remark: 2400MHz Tested by: Allen Yu



--: Max. deg \*Unit: dBi

Frequency(MHz): 2400.00 Pattern Field: E plane Average Gain(dB): -3.17dB

Maximum Gain(dB) : 1.76dB Maximum Gain(degree) : -71.43

Minimum Gain(dB) : -14.54dB Minimum Gain(degree) : -180.00



Brand / Model: 6602113053-230

Remark: 2400MHz Tested by: Allen Yu



--: Max. deg \*Unit : dBi

Frequency(MHz): 2400.00 Pattern Field: H plane Average Gain(dB): 0.51dB

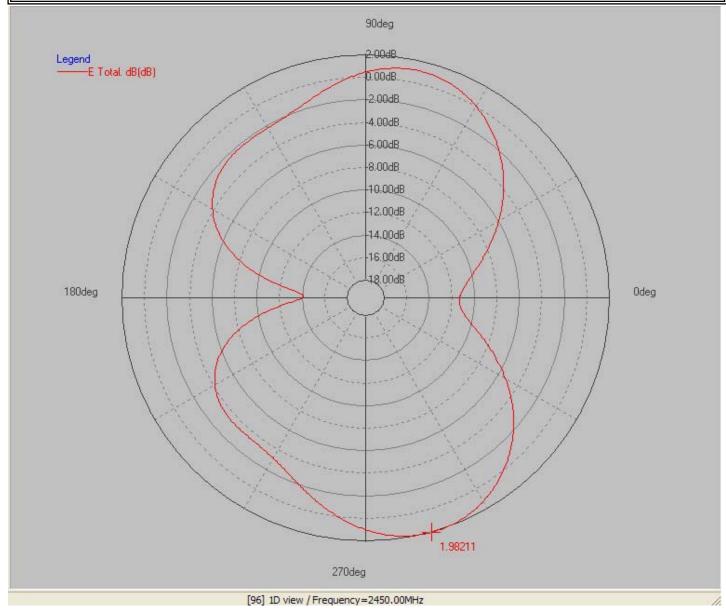
Maximum Gain(dB) : **1.76dB** Maximum Gain(degree) : **50.23** 

Minimum Gain(dB) : -0.58dB Minimum Gain(degree) : 343.21



Brand / Model: 6602113053-230

Remark: 2450MHz Tested by: Allen Yu



--: Max. deg \*Unit: dBi

Frequency(MHz): 2450.00 Pattern Field: E plane Average Gain(dB): -2.94dB

Maximum Gain(dB) : **1.98dB** Maximum Gain(degree) : **-74.29** 

Minimum Gain(dB) : -14.16dB Minimum Gain(degree) : -180.00



Brand / Model: 6602113053-230

Remark: 2450MHz Tested by: Allen Yu



--: Max. deg \*Unit: dBi

Frequency(MHz): 2450.00 Pattern Field: H plane Average Gain(dB): 0.84dB

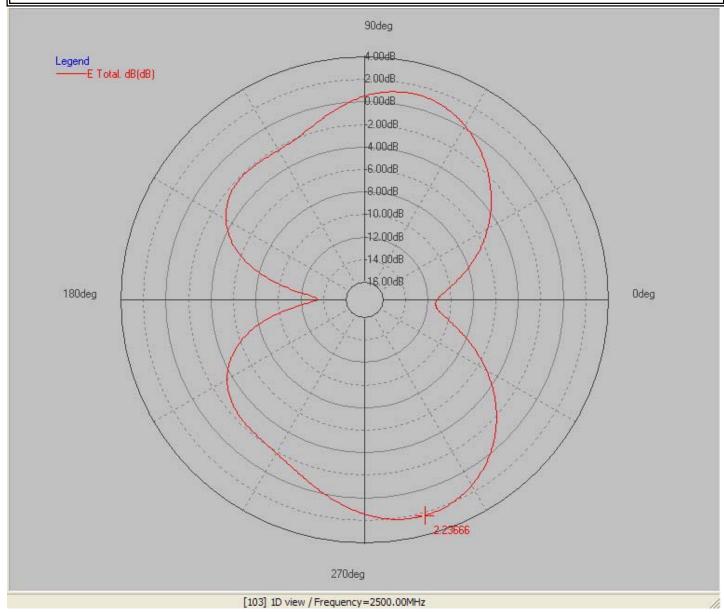
Maximum Gain(dB) : **1.98dB** Maximum Gain(degree) : **47.44** 

Minimum Gain(dB): -0.06dB Minimum Gain(degree): 340.42



Brand / Model: 6602113053-230

Remark: 2500MHz Tested by: Allen Yu



--: Max. deg \*Unit: dBi

Frequency(MHz): 2500.00 Pattern Field: E plane Average Gain(dB): -2.55dB

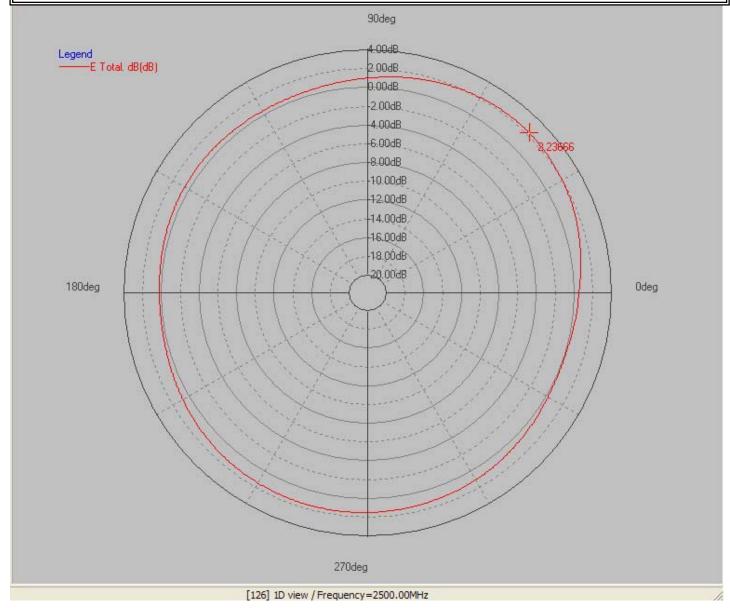
Maximum Gain(dB) : 2.24dB Maximum Gain(degree) : -74.29

Minimum Gain(dB): -13.52dB Minimum Gain(degree): -180.00



Brand / Model: 6602113053-230

Remark: 2500MHz Tested by: Allen Yu



--: Max. deg \*Unit: dBi

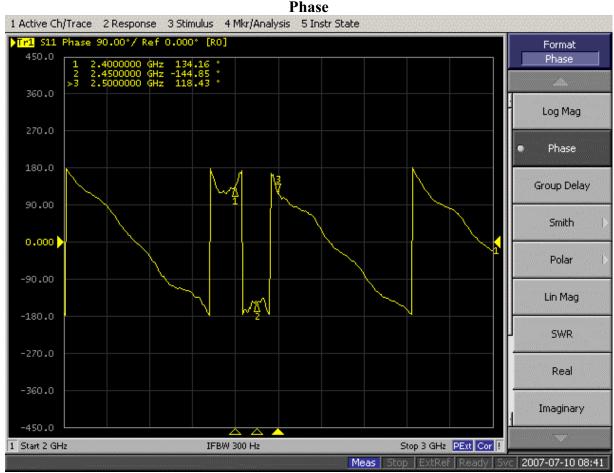
Frequency(MHz): 2500.00 Pattern Field: H plane Average Gain(dB): 0.99dB

Maximum Gain(dB) : **2.24dB** Maximum Gain(degree) : **44.65** 

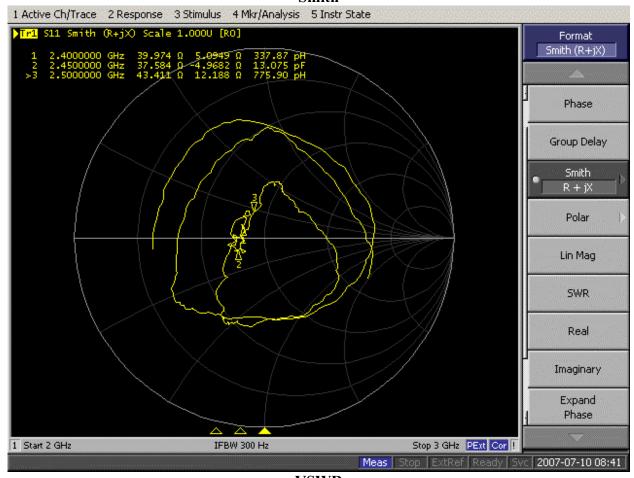
Minimum Gain(dB) : **0.11dB** Minimum Gain(degree) : **340.42** 

## 6602113053-230





#### **Smith**







# 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 <sup>3</sup>	CO5 A3	C00 43	COF 43	C00 A3	CCOD3
	Units	Method	SouA	S85A <sup>3</sup>	S90A <sup>3</sup>	S95A <sup>3</sup>	S98A <sup>3</sup>	S60D <sup>3</sup>
Specific gravity	gr./cm <sup>3</sup>	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 <sup>2</sup> (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, CO<sub>2</sub>, 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, <a href="https://www.basf.com/elastollan">www.basf.com/elastollan</a> ©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	型蛭	特性	比重	透 光 章	39 性 丰	近 撃 強 成	熱 費 形 選 度	成 型 收 超 率	防火等額
* 14	32 32	19 12	g/cm³	3mm 厚度 %	kg/cm²	3mm 厚度 kg.em/em	12.5kg °C	进问 %	UL-54
高近擊後	1.E-1250	<b>高衝擊、射出級</b>	1.18	半透明	21,500	85	134	0.6 ~ 0.9	äH
	LN-1250 LN-2250 V	対出防火 V-0 县雕型	1.22	85	22,300	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	半透明	36,000	9	146	0.3 ~ 0.5	V-2 V-0
板場鐵锤型化链 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
FIRRE REIN- FORCED GRADE	G-3120	計出玻璃鐵造 20 %	1.34	华送明	55,000	14	148	0.1 - 0.3	V-2 V-1
	G-3130	別比茲稱譯提 30 %	1.43	华透明	74,000	16	119	0.3 - 0.5	V-2 V-1
尼斯型級	G-3110R	射出、50度型含宏념基礎 10%	1.27	不透明	35,500	9	145	5.2 ~ 0.5 1 0.1 ~ 0.6	V-2 V-0
PANLITE-G MOLD RELEASE GRADE	G-3130R	対出・易重型含玻璃建筑 20%	1.43	不透明	74,650	12	150	0.02 - 0.0	V-1
		對出、医知自含度影響種 10%	1.27	华透明	34,000	5	140	0.3 - 0.5	V-0
95. <b>5</b> 5.45.45.65	E 1 = 5 1 1 5 pm	射出、低燃曲含层激減度 15%	1.30	华送明	- 40,000	6		0.4 - 0.6	
BAND CODE CTYNN	1 1 - 1 - 1 - 1 - 1 - 1	射出、低四由含板路鐵缸 20%	1.34	半透明	47,000	6	1	0.2 ~ 0.4	
RADE		財出、低畑由含板湖鐵程 24 %		半透明	52,560	7	- h-	0.1 ~ 0.3	
	G-3130H	射出、低應由台環域議構 30%	1.43	华送明	65,000	9	142	0.1 ~ 0.3	V -2 V-1
医侧曲板	G-3110M	射出超低磁曲·外要良好 含版碼 10 %	1.27	半透明	25,000	8		0.5 - 0.7	V-2 V-0
		1出出版語曰・計製具持古物書は29	1.30	羊边明	28,500	5	140	0.1 ~ 0.5	V-2
[18] [18] [18] [18] [18] [18] [18] [18]	G-3126M F	1出超位加色,并被及行金板重20分	1.34	半透明	31,000	4	141	0.4 - 0.5	V-2
ADE	1 - 4 1 3 GAV - 1	射出超低烟曲、外觀具好 合磁議 30 %	1.43	半透明	40,000	2	135	0.3 - 0.5	V-2 V+1
	CN-2110	対出防火含玻璃護譜 10	1.28	半透明	35,000	7	146	0.3 ~ 0.5	V-0
支档或结选化聚燃放了 LAME RETARD(	SN-3125	対出防火含玻璃護鞋 20 %		半透明			-		V-)
GRADE	2N-3120 5	付出防火合玻璃鐵譜 30 %	1.44	半透明	75,000	12	149	0.02 ~ 0.2	V-0
RICTION & ASRA-	55-3130	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名·那唑茲		養館 30 %	-	2-14-91-2				0.3 ~ 0.5	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	
Material designation may be suffixed with any one or two letters.  Suitable for outdoor use with respect to exposure to Ultraviolet L	CTI: 3	6.0	3.0	1.5	1.0	Min. Thick (mm)		
ith respect to exp	be suffixed with		V-0	V-0	V-0	V-0	Flame Class HWI	
Material designation may be suffixed with any one or two letters.  Suitable for outdoor use with respect to exposure to Ultraviolet Light, Water Exposure and Immersion in accordance with UL	HVTR: 3 any one or two lett	2	ω	w	-	HWI		
		0	0	0	2	HAI		
		125	125	125	125	RTI Elec		
er Exposure		s: 6	D495: 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.



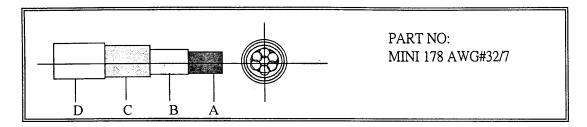
# 藍菱電子科技有限公司

#### LEOFLON ELECTRONICS INDUSTRIAL CO., LTD.

TEL:886-2-2903-8223 FAX:886-2-2908-1221 台北縣新莊市中正路649-3號10樓

#### 鐵氟龍高頻同軸電纜線

FEP TEFLON Coaxial Cable



#### **SPECIFCATION**

#### A:CONDUCTOR

Material Silver Plated Copper

Stranding 7x0.079mm Diameter 0.237mm

**B:INSULATION** 

Material FEP

Thickness 0.211mm
Diameter 0.66mm

C:SHIELD

Shield Type Braid

Material Silver Plated Copper

Coverage 95%
Diameter 0.9mm

**D:JACKET** 

Material FEP
Thickness 0.115mm
Overall Diameter 1.13mm

#### **MECHANICAL CHARACTERISTICS**

Operating Temperature Range  $-70^{\circ}\text{C} \sim 200^{\circ}\text{C}$ 

Voltage 30V Flame Test UL-94



# 藍菱電子科技有限公司

#### LEOFLON ELECTRONICS INDUSTRIAL CO., LTD.

TEL:886-2-2903-8223 FAX:886-2-2908-1221

台北縣新莊市中正路649-3號10樓

Tensile Strength

Insulation 3789PSI

Jacket: 4399PSI

Elongation

Insulation 320%

Jacket: 330%

Judici.

#### **ELECTRONICAL CHARACTERISTICS**

Nom. Impedance

50Ohms

Nom. Capacitance

95pF/M

Nom. Velocity of Propagation

69%

Dielectric Strength

6KV 0.5mA/Minute

Spark Test

6KV

 $VSWR (0\sim 6GHz)$ 

Less 1.3

Attenuation (dB/M)

500MHz	2.4GHz	5.2GHz	6GHz
1.23	2.7	4.89	5.12

# SPECIFICATION FOR APPROVAL

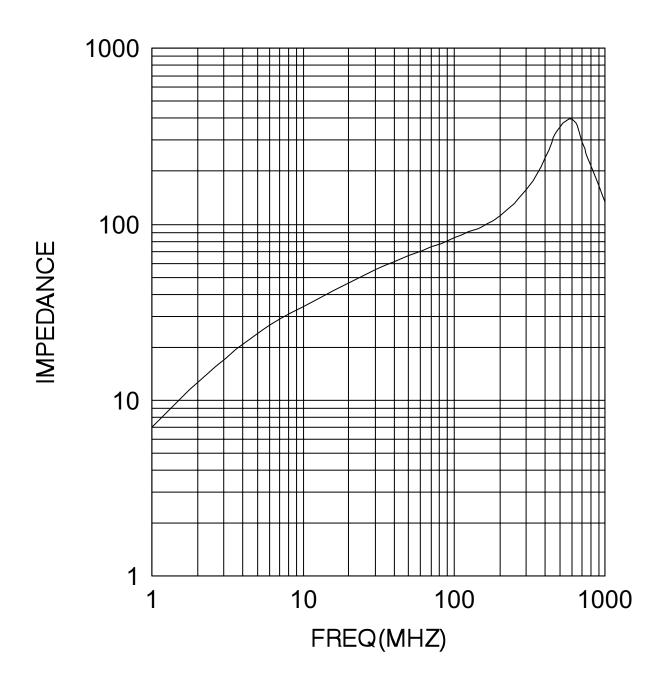
CUSTOMER:		CI	JST.P/N:	
ITEM:	K5B RH 4x10x2	K.	C.P/N:	PS0404IA
(1) SHAPE:		A	4.0±0.2	m/m
		В	10.0±0.4	m/m
	_ /-øC	С	2.0±0.15	m/m
		<u>D</u>		m/m
/		<u>E</u>		m/m
		F		m/m
		<u> </u>		m/m
_	■ A ■ B	-		
(2)ELECTRIC		(3)	TEST CO	NDITIONS:
$Z_1 = 37$ $Z_2 = 63$		1 I	MPEDANCE A	NALYZEIHP4191A
$Z_2 = 63$	-0 OHM AT 100 MHz	1	TEST FIXTUR	E: HP16092A
			IRE:Φ0.65 T. RAWING:	C.W*63m/m1/2Ts
				20
(4)PACKING		(5)	APPEARA	NCE
X	IN BULK VACUUM	INSERTION	(1)AREA OF B	REAK : <2 m/m <sup>2</sup>
2000 PCS/BAGS*	4 BAG/INNER BOX* 4 BOXES/0	CARTON = 32000 PCS	(2)SUM OF BR	REAKING AREA :<3 m/m <sup>2</sup>
PCS/PLATE	* PLATES/CARTON= PCS		(3)DEPTH O	F BREAK :<1 m/m
PCS/TRAY*	TRAYS/CARTON= PCS			
(6)REMARK:		Aı	proved by	黄國章
		Cl	necked by	吴明珠
		Di	awn by	吴明琛
		D'	WG.NO.	

## TEST DATA FOR PREPRODUCTION SAMPLES

CUSTOMER				CUST. P/N		
ITEM	K5	B RH 4x10	x2	K.C. P/N	PS0404IA	
ТЕМР.	<b>24</b> °C RH		<b>69</b> %	DWG.NO.		
WIRE	0.65x63m/m T.C.W	WINDING	<i>1/2</i> Ts	Q'TY		
Test Instrumen	ts		•			
Meas. Item.	Z (OHM)	Z (OHM)	A m/m	B m/m	C m/m	
Spec./ Yours.						
Spec./Suggest.	37 <sup>-0</sup>	63 <sup>-0</sup>	4.0±0.2	10.0±0.4	2.0±0.15	
Test Freq.	25 MHZ	100 MHZ				
1	51	85	4.08	10.06	2.04	
2	50	84	4.06	10.12	2.02	
3	50	84	4.04	10.10	2.00	
4	50	84	4.04	10.10	2.00	
5	51	85	4.04	10.06	2.00	
6						
7						
8						
9						
10						
X	50	84	4.05	10.09	2.01	
R	1	1	0.04	0.06	0.04	
Your Sample. REMARK:					Approved by:  Checked by:  Drawn by:	吴明琛吴明琛

KING CORE ELECTRONICS INC.

# K5B RH 4x10x2



鈞寶工程部