		SPECIFICATION FOR APPROVAL		
客 CUSTOM	戶 ∕IER			
日 DATI	期 E	2008/11/25		
品	名	WSS002 850~925MHz Antenna		

承 認 書

with RP-SMA (M)(Black)

客 戶 料 號 CUSTOMER P/N

DESCRIPTION

萬旭電業股份有限公司 WANSHIH ELECTRONIC CO., LTD. 台北縣五股鄉五工六路 72 號 3 樓

3F 72 WU KONG 6TH RD., WU KU INDUSTRIAL DISTRICT TAIPEI HSIEN, TAIWAN,R.O.C.

TEL: (02) 22988066 (5 LINE) FAX: (02)22981102

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SPECIFICATION

1. Description : WSS002 850~925MHz Antenna

2. Model No. : WSS002

3. Antenna Profile : 108 mm length (see Drawing)

4. Color : Black

5. Electrical Characteristics

Operating Frequency : 850~925MHz
Antenna Type : Monopole
Polarization Type : Linear
Type of Radiation : Toroidal
Peak Gain : 0 dBi Typical

Impedance : 50 Ohm nominal

V.S.W.R : 3.5:1 Max.(50*50mm 測試板)

6. Mechanical Characteristics

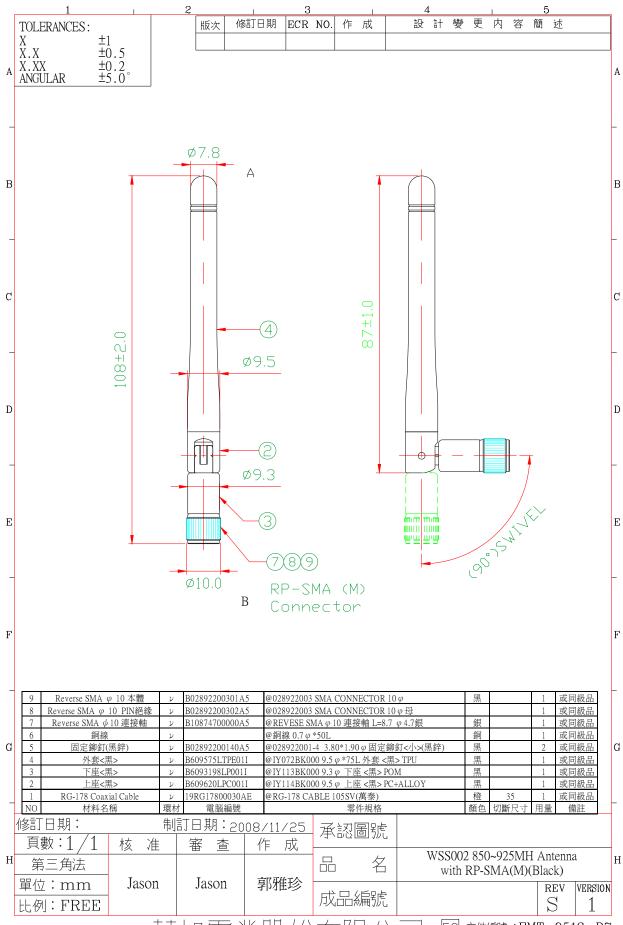
Action : 90 degrees
Connector : RP-SMA (M)

Core : N/A

7. Raw Material

Coaxial Cable : RG-178 Housing : TPU

Hinge : PC+ALLOY



/環林

Electrical Properties

Return Loss



Electrical Properties

V.S.W.R



Coaxial Cable Data Sheet RG-178

SPECIFICATION FOR APPROVAL

DOCUMENT: A30178B001

STYLE: 105° C 30V

RG-178B/U

SIZE: 7/0.102 SCCS

RECOGNIZED: UL 1979



WONDERFUL HI-TECH CO.,LTD

OFFICE: 72WU KONG 6TH ROAD, FACTORY: 17 PEI YUAN ROAD,
WU KU IND. DISTRICT CHUNG-LI IND. PARK

TAIPEI HSIEN, TAIWAN TAIWAN, R.O.C.

TEL: (02)22988033 TEL: (03)4527777 FAX: (02)22988031-2 FAX: (03)4517214

WONDERFUL HI-TECH CO., LTD SPECIFICATION DOCUMENT NO.

STYLE	105°C 30V	DOCUN	DOCUMENT NO :		
UL1979 A301/8B001		B001			
SIZE	RG-178B/U	ESTABLISHED DATE: 2004/03/22			
SIZE	KU-178D/U				
STANDARI	D : MIL-C-17				
	Τ.		T		
	Size	AWG	30		
Conductor	Material		Silver-Coated Copper 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		
D	Material		Silver-Coated Copper		
Braid	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	88				
A 12001/2103/20			DACE 1		

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EDITION: 1.2

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

WONDERFUL HI-TECH CO., LTD. SPECIFICATION

Electrical	& Physic	cal F	Properties					
Item				RG-178B/U				
Rating Ter	np Volta	ge			105℃	30V		
Conductor	Resista	nce			838 OHM/KM/20°C MAX.			
Insulation	Resistan	ice			3000 MEGA OHM/KM MIN.			
Dielectric	Strength	L			AC 500V/Minute			
Spark Test	t				2.5 K	V		
	Unagad	Ten	sile Strens	gth	2500 PSI MIN.(1.76 Kg / m m ²)			
Insulation	Unaged	Elongation		200% MIN.				
	A 1	Ten	Tensile Strength UNAGED MIN 75%(168HRS×232°C)					
	Aged	Elo:	longation		UNAGED MIN 75%(168HRS×232℃)			
	Unaged	Tensile Strength 2500 PSI MIN.(1.76 Kg / m m²)			m m³)			
Jacket	Onaged	Elongation		200% MIN.				
	Aged	Tensile Strength		UNAGED MIN.75%(168HRS×232℃)				
	Ageu	Elongation		UNAGED MIN.75%(168HRS×232℃)				
Nom. Impedance				50 Ohms				
Nom. Capacitance				95.8 pF/m				
Nom. Vel. of Prop.				69.5%				
VSWR (0 – 6 GHZ)			UNDER 1.3					
Attenuatio	n 100M	IHz	1GHz 1.8		8GHz	2.4GHz	5.2GHz	6GHz
(dB/100m) 46	5 155		295	340	505	550	

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EDITION: 1.2

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

Housing Material Data Sheet

Housing - TPU



東莞宏德化學工業有限公司檢驗報告

DONG GUAN HONTEX CHEMICAL CO.,LTD. TEST REPORT

廣東省東莞市長安鎮霄邊工業區 Postcode:523850

Tel:(0769)85533620 Fax:(0769)85533635

http://www.dghontex.com.cn

E-mail:hontex@pub.dgnet.gd.cn

Thoughfull Professional Unique

品名 Product Name	TU56DG	制造批號 Lot No.	R80398005	
送 驗 日 期 Sample Received	2008/3/13	檢驗日期 Sample Tested	2008/3/14	
檢驗項目 標准值/測試條件 Test Items Spec./Test Method		檢 驗 結 果 Test Results		
外 觀 Appearance	1	霧狀		
拉伸強度(kg/cm²) Tensile Strength	>300	3 	496	
延伸率(%) Elongation	>380		603	
100%模量(kg/cm²) 100% modulus	>90	131		
硬 度(ShoreD) Hardness	56±2D	55D		
熔融指數(g/10min) Melt Index	10kg/210°C		16.2	
熔融粘度(Pa.s) Melt Viscosity	10kg/210°C	3195		
色差 Color Index		11.1		
耐磨耗(mm3) Abrasion:DIN	1	59		
耐寒耐曲折性 Flexibility@-10℃	-10℃/4萬次	完好		
透明性 Transparency	/	不透明		
INSPECTION RESULT]	PASS	

主管: Supervisor:	2008.04.09	檢驗員: (Inspector):	王文忠
30.000.00		C/250 94590 CH4504	2008年4日

Hinge(Base/Holder)- PC+ALLOY

SHINBLEND SHINKONG SYNTHETIC FIBER 有 光 合 成 糖 相 服 份 ALLOY 8th Pl., 123、Sec 2, Nanking Hast Est: 886-2-2507-0131 886-2-2507-12	有限公司 Road, Thipes, Taiwan inest 886-3-1932[31-1730
The state of the s	

Technical Data

SHINBLEND A724NA

High Impact Grade / 超到版:AD4011

		Unit	Test Method	Values
Mechanical properties	機械性質			
Izod Impact(Notched) 23°C	衝擊強度	Kg-cm/cm	ASTM D256	85
-20°C	衝擊強度	Kg-cm/cm	ASTM D256	70
-40°C	衝擊強度	Kg-cm/cm	ASTM D256	65
Tensile Strength	拉伸強度	Kg/cm ²	ASTM D638	540
Elongation	拉伸率	%	ASTM D638	100
Flexural Strength	彎曲強度	Kg/cm ²	ASTM D790	800
Flexural Modulus	彎曲模數	Kg/cm ²	ASTM D790	20000
Thermal properties	熱性質			
Heat Deflection Temperature	熱變形溫度		ASTM D648	
66psi		°C	•	-
264psi		°C	ŕ	100
Flammability	防火性	4	UL94	-
Melting Point	熔點	°C	DSC	223
Electrical properties	電氣性質			
Dielectric Strength	介電強度	KV/MM	ASTM D149	-
Dielectric Constant	介電常數	300	ASTM D150	-
Volume Resistivity	體積電阻	Ω -CM	ASTM D257	-
Other properties	其它性質			
Specific Gravity	比重	-	ASTM D792	1.19
Water Absorption	吸水率	%	ASTM D570	0.14
Mold Shrinkage	成形收縮率		ASTM D955	
Flow	流動方向	%		0.4~0.6
Cross Flow	垂直方向	%	}	0.5~0.7

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