

E38739

2007/07/13

505951082517G					
ANT 2.4GHZ C037-510825-A WHITE					
		C037-510825-A			
		0912058677			
DSL-2650BU					
	REFERENCE ONLY				
		N/A			
		2007/07/12 13:31:15			
			2007/07/12 15:39:27		

505960079610G			
ANT CABLE Mini 1.13 L=80mm			
		THW0796A	
02-22988066			
REFERENCE ONLY Panton No: 			

承 認 書
SPECIFICATION FOR APPROVAL

客 戶
CUSTOMER

明泰科技股份有限公司

日 期
DATE

2006 / 08 / 09

品 名
DESCRIPTION

Mini 1.13 Cable Assembly (L=80)(K5A)
With RP-SMA Bulkhead Jack & MHF

客 戶 料 號
CUSTOMER P/N

505960079610G

成 品 編 號
Part NO.

THW0796A
(符合環保材)



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.

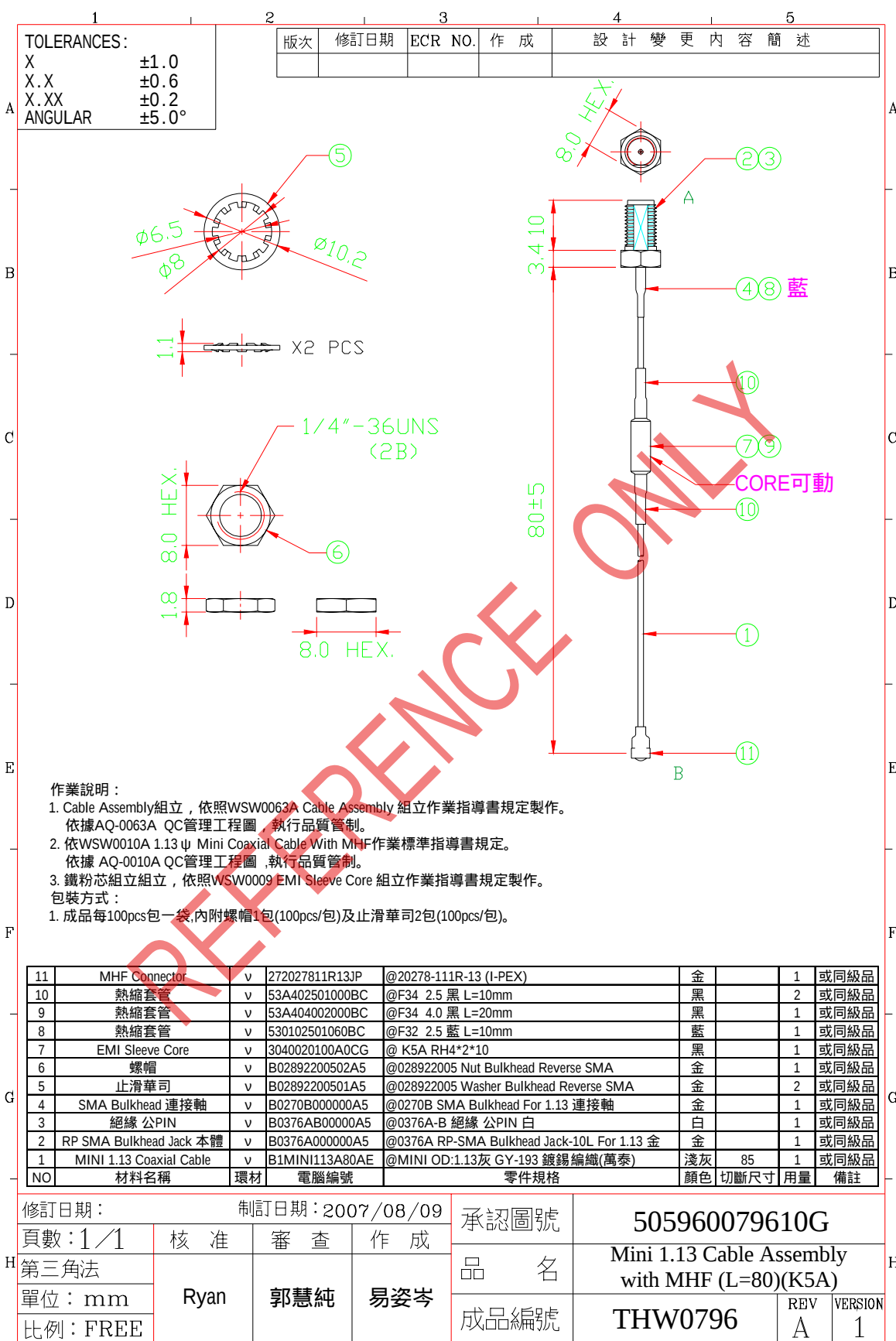
TEL : (02) 22988066 (5 LINE) FAX : (02)22981102

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SPECIFICATION

1. Description : Mini 1.13 Cable Assembly
with RP-SMA Bulkhead Jack & MHF
2. Customer : 明泰科技股份有限公司
3. Part No. : THW0796A
4. Coaxial Length : 80 mm (see Drawing)
5. Electrical Characteristics
 - Operating Frequency : 1~6 GHz
 - Impedance : 50 Ohm nominal
 - Attenuation. : -2.0dB Max.
6. Mechanical Characteristics
 - Connector : RP-SMA Bulkhead Jack
: MHF
7. Raw Material
 - Coaxial Cable : Mini 1.13
 - Core : K5A RH4*10*2

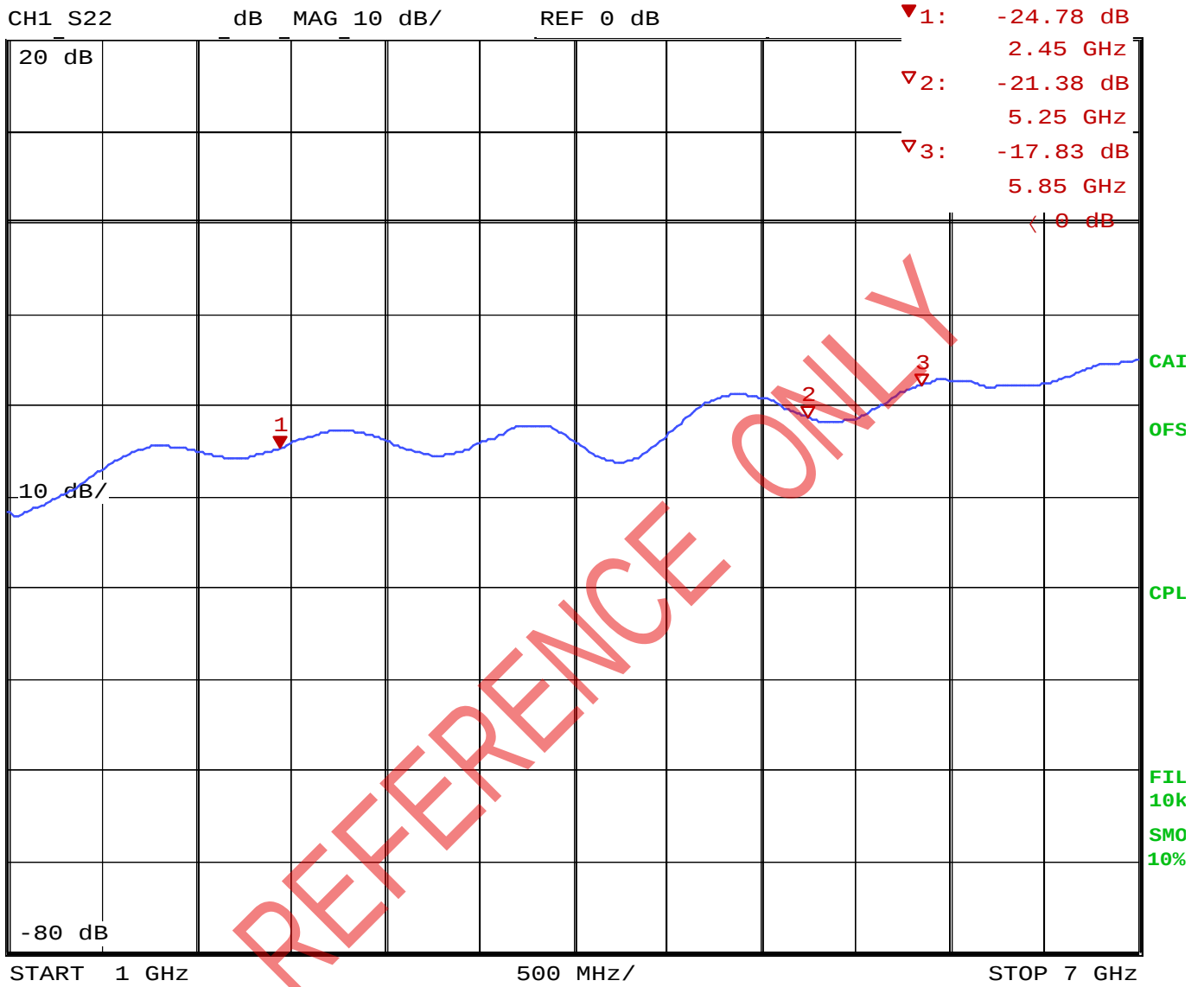


萬旭電業股份有限公司

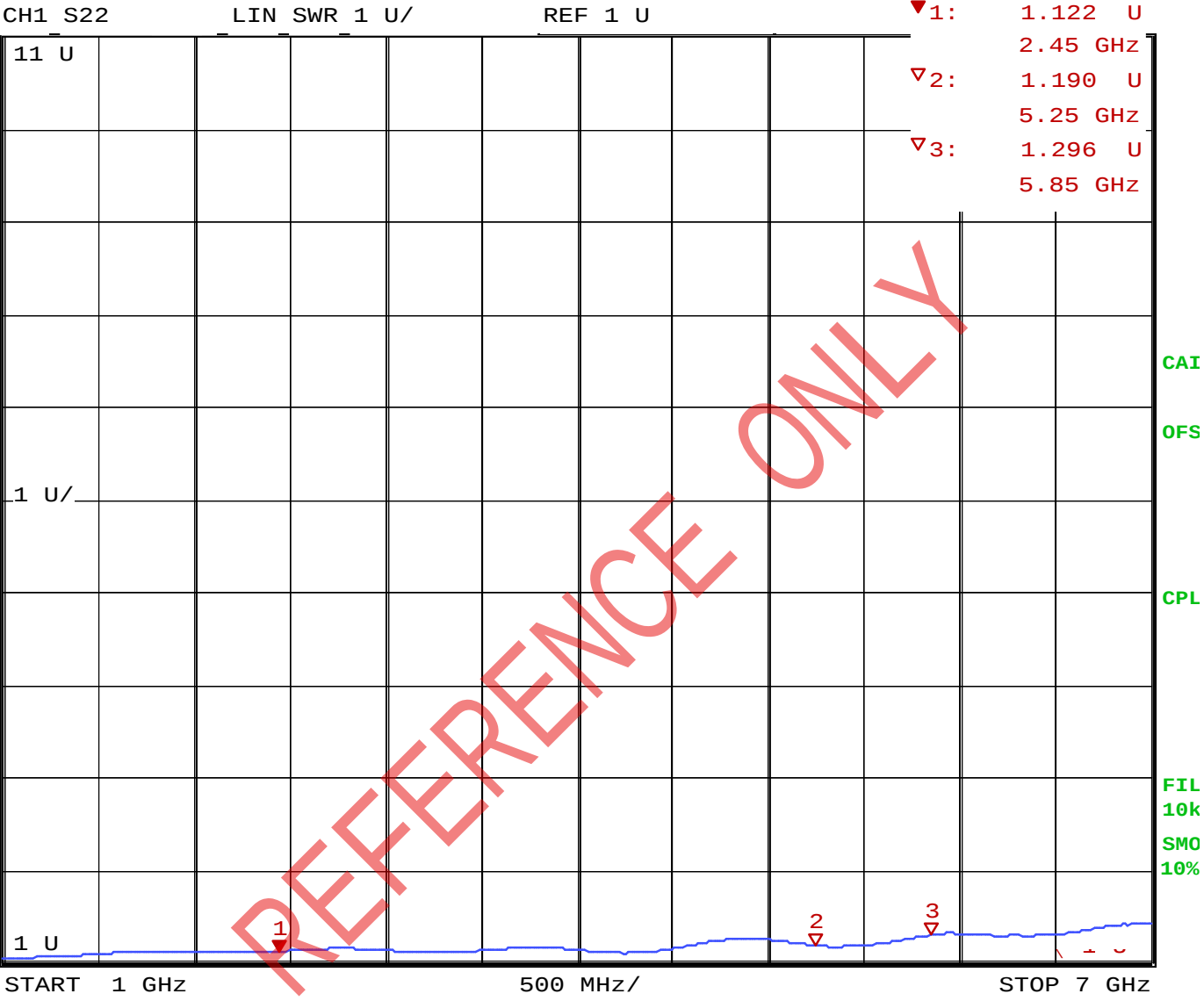
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Electrical Characteristic

Return Loss

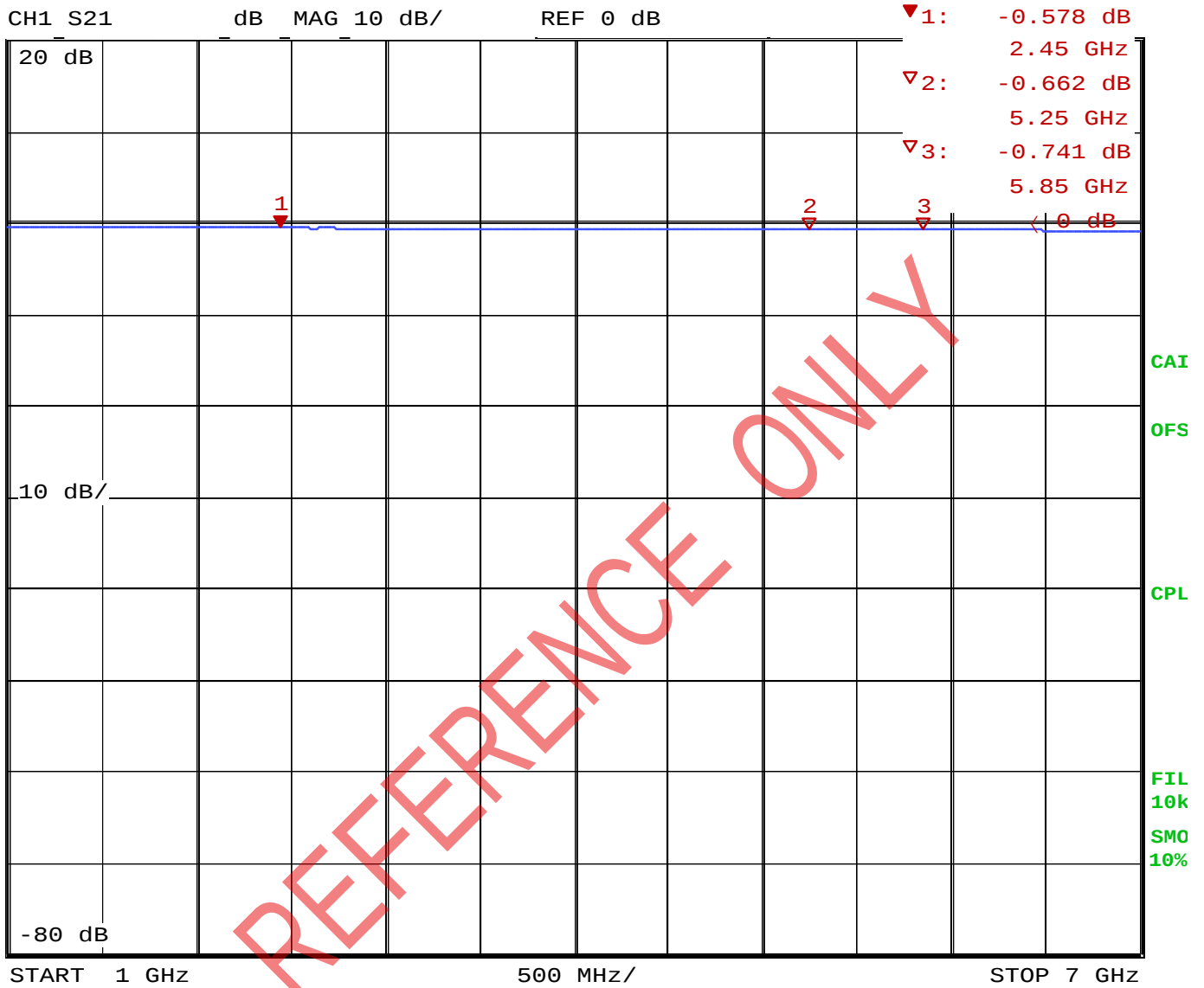


Electrical Characteristic
V.S.W.R



Electrical Characteristic

Attenuation



Material Data Sheet

Mini-1.13 Coaxial Cable

SPECIFICATION FOR APPROVAL

DOCUMENT: A3132TS001

STYLE : COAXIAL CABLE
105°C 30V

SIZE: 32AWG×1C
BRAID : TS

RECOGNIZED: UL 1979



WONDERFUL HI-TECH CO.,LTD.

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

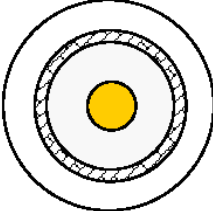
TEL : (02)22988033
FAX : (02)22988031-2

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 UL 1979	DOCUMENT NO : A3132TS001
SIZE	32AWG	ESTABLISHED DATE: 2005/05/11
STANDARD :		
Conductor	Size	AWG 32
	Material	----- Silver Cover Copper
	Conductors No.	----- 7
	Conductors Size	mm 0.080
	O.D.	mm 0.240
Insulation	Average Thickness	mm 0.22
	Diameter	mm 0.68 ± 0.02
	Material	----- FEP
	Color	----- Clear
Braid	Material	----- Tinned Copper
	Construction	mm 16 / 4 / 0.050
	Coverage	% 90
Jacket	Average Thickness	mm 0.13
	Diameter	mm 1.13 ± 0.05
	Material	----- FEP
	Color	----- According to custom
Marking	Non	
Drawing		

AK001/210X297/1.0

PAGE : 1

EDITION : 1.1

MAKER : C.Y.CHEN

CONFIRM : S.N.WONG

APPROVAL : W.J.WANG



WONDERFUL HI-TECH CO., LTD. SPECIFICATION

Electrical & Physical Properties						
Item		32AWG				
Rating Temp Voltage		105°C 30V				
Conductor Resistance		545 OHM/KM/20°C MAX.				
Insulation Resistance		1000 MEGA OHM/KM MIN.				
Dielectric Strength		AC 500 V/Minute				
Spark Test		2.5 KV				
Insulation	Unaged	Tensile Strength	2500 PSI MIN.(1.76 Kg / m m²)			
		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 m²)			
		Elongation	200% MIN.			
	Aged	Tensile Strength	UNAGED MIN.75%(168HRS×232°C)			
		Elongation	UNAGED MIN.75%(168HRS×232°C)			
Nom. Impedance		50 ± 3 Ohms				
Nom. Capacitance		96 ± 3 pF/m				
Nom. Vel. of Prop.		69%				
VSWR Test (0 – 6 GHZ)		Less 1.3				
Flame Test		VW-1 OK				
Attenuation (dB/1m)		2.0GHZ	2.4GHZ	2.5GHZ	5.0GHZ	6.0 GHZ
		2.80	3.10	3.15	4.85	5.20

AK001/210X297/1.0

PAGE : 2

EDITION : 1.1

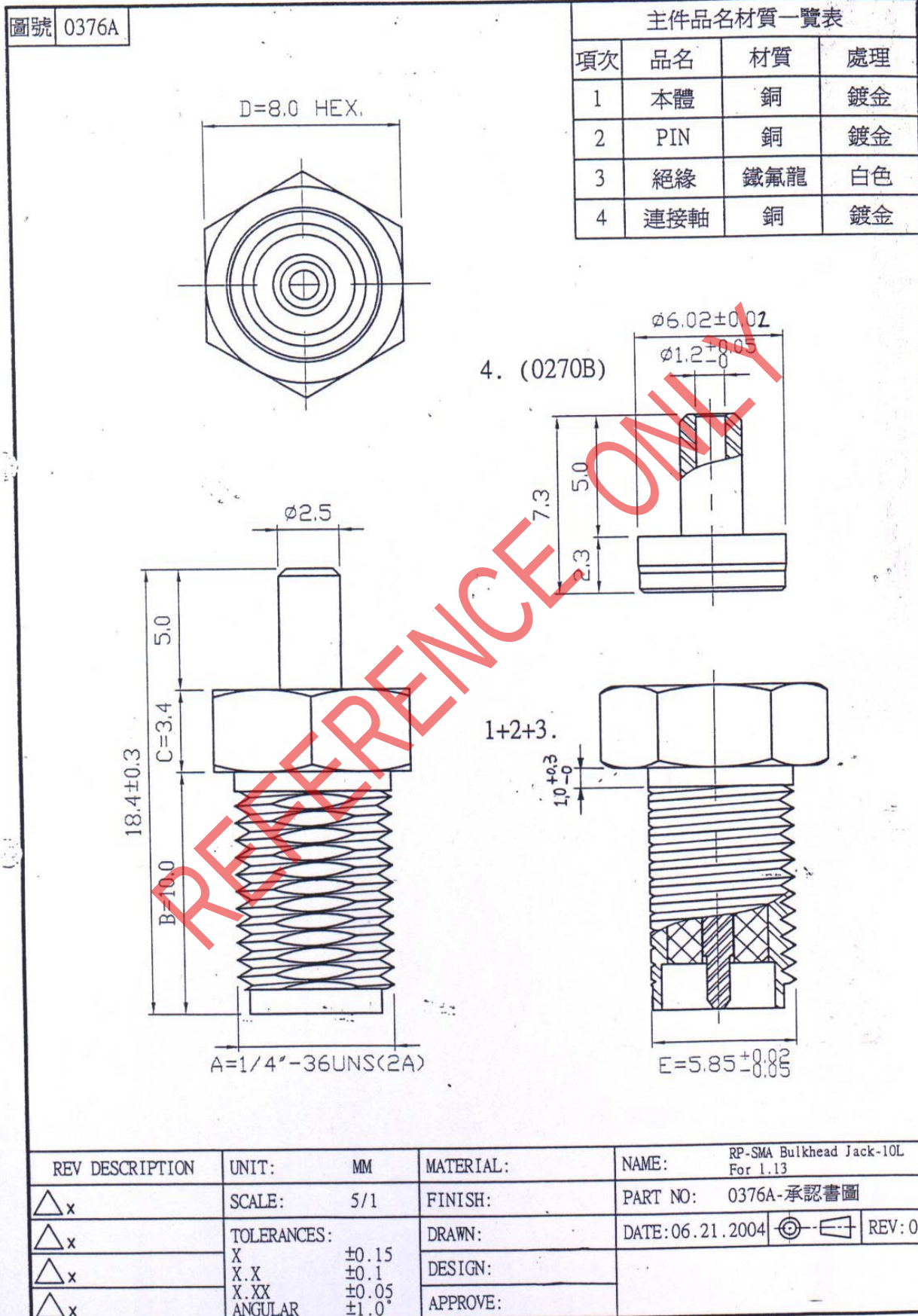
MAKER : C.Y.CHEN

CONFIRM : S.N.WONG

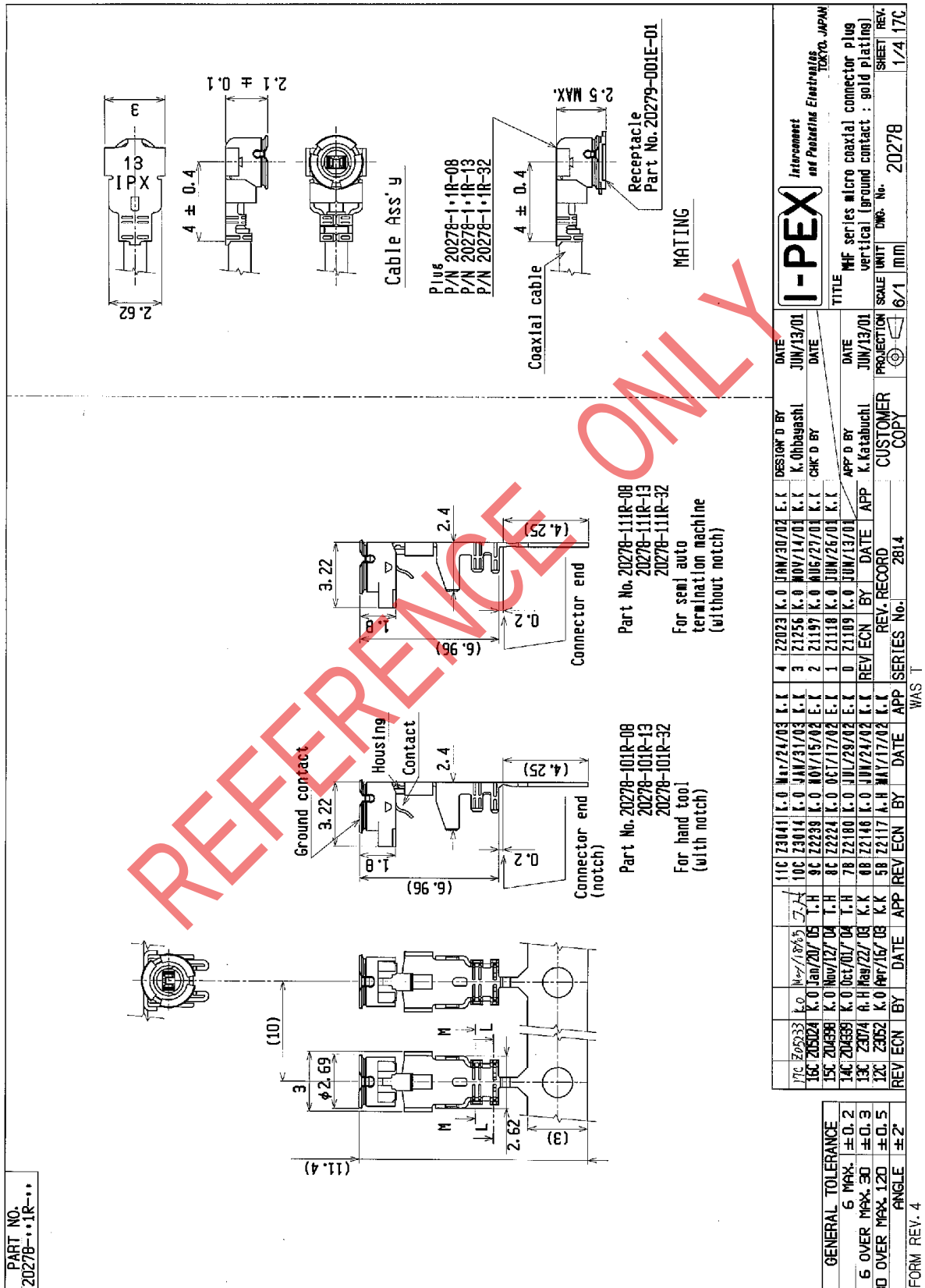
APPROVAL : W.J.WANG

Material Data Sheet

RP-SMA Bulkhead Jack



MHF Connector



PART NO.
20278-11R-01

The technical drawing illustrates the I-PLEX micro coaxial connector plug assembly through multiple views:

- Top View:** Shows the overall footprint with dimensions 11.4 mm by 2.62 mm.
- Front View (Left):** Details the ground contact area with dimensions 3 mm, 2.62 mm, 4.26 mm, and 10 mm.
- Side View (Middle):** Shows the housing and contact details with dimensions 1.8 mm, 3.22 mm, 2.4 mm, 0.2 mm, 7.66 mm, and 3.55 mm.
- End View (Right):** Shows the connector end with dimensions 0.2 mm, 7.66 mm, and 3.55 mm.
- Bottom View:** Shows the cable side with dimensions 2.1 ± 0.1 mm, 4.7 ± 0.4 mm, and 2.5 MAX. mm.

Key components and labels include:

- Cable Assy'y
- Plug P/N 20278-11R-18
- Coaxial cable
- Receptacle Part No. 20279-001E-01
- MATING

GENERAL TOLERANCE	
6 MAX.	±0.2
6 OVER MAX. 30	±0.3
30 OVER MAX. 120	±0.5
ANGLE	±2°

DESIGN'D BY		DATE	
CHK'D BY		DATE	
APP'D BY		DATE	
REV ECN	BY	DATE	APP
REV. RECORD			
SERIES No.	2814		
CUSTOMER COPY			
PROJECTION SCALE	6/1		
UNIT	mm		
DWG. No.	20278		
SHEET REV.	2/417C		

TITLE
I-PLEX
Interconnect and Packaging Electronics TOKYO JAPAN

MF series micro coaxial connector plug vertical (ground contact : gold plating)

FORM REV. 4

GENERAL TOLERANCE	
6 MAX.	±0.2
6 OVER MAX. 30	±0.3
30 OVER MAX. 120	±0.5
ANGLE	±2°

FORM REV. 4

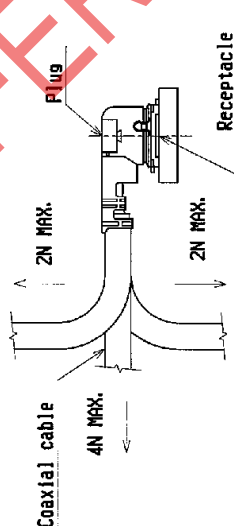
				DESIGN'D BY		DATE		I-PEX Interconnect and Protection Electronics TOKYO, JAPAN								
				CHK'D BY		DATE										
				APP'D BY		DATE										
REV	ECN	BY	DATE	APP	TITLE MF series micro coaxial connector plug vertical (ground contact : gold plating)											
REV. RECORD					CUSTOMER COPY		PROJECTION		SCALE		UNIT		DWG. No.		SHEET REV.	
2014									A/1		mm		20278		2/4 17C	

WAS T

5-2 コネクタ抜き時

1. Material
(1) Housing : PBT , UL94V-0
(2) Contact
 phosphor bronze
 gold plating $0.1\mu\text{m}$ MIN.
 over nickel $1.27\mu\text{m}$ MIN.
(3) Ground contact
 phosphor bronze
 gold plating $0.05\mu\text{m}$ MIN.
 over nickel $1.27\mu\text{m}$ MIN.
2. Packing : reel
3. Mating partner part No.
 : 20279-001E-01
4. Permissible load of cable at mating

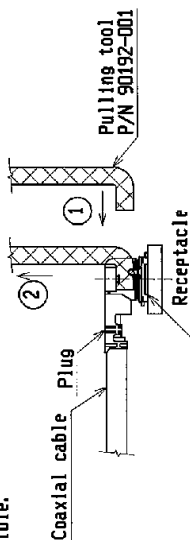
1. 材料
(1) ハウジング : PBT, UL94V-0
(2) コネクタ
 リウ青銅
 金メッキ0.1 μ m MIN.
 下駄 ニッケル1.27 μ m MIN.
(3) グランドコネクタ
 リウ青銅
 金メッキ0.05 μ m MIN.
 下駄 ニッケル1.27 μ m MIN.
2. 部品 : リール
3. 部品名 : 合線手 part. No.
 : 20739-001E-01
4. コネクタの組合せのケーブルにする場合



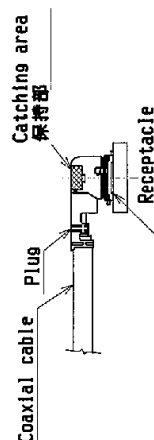
5-1 Mating. Please mate the connector straightly to vertical direction as much as possible, adjusting the mating axis of plug and receptacle. As excessive slant angle mating may break the connector, please don't do it.

5-1 コネクタ挿入時
PlugとReceptacleのカーン合線を合わせ、
できるだけ正確に挿入して下さい。
正確な締め挿入は行わないで下さい。
コネクタ破損の原因となりますので、過度なこじり
挿入は行わないで下さい。

(1) In case of unmatting by pulling tool.
Please use the pulling



(2) In case of unmatting directly by hand
下図の保持部をつかみ、できるだけ
直に引き抜いて下さい。



Standards: Less than 10% from total numbers of outer conductor
(Numbers of outer conductor's crimp over from outer conductor's barrel)

Please be careful not to melt housing when using heat shrinkage tubes. It will become cause of open circuit.

5. This is 'Pb-free' connector.

I-PEX

REV	ECN	BY	DATE	APP	APP'D BY	DATE	TITLE	UNIT	QWS. No.	20278	SHEET	REV.
							MFH series micro coaxial connector plug vertical (ground contact : gold plating)	mm			4/4	17C
REV. RECORD				CUSTOMER COPY		PROJECTION		SCALE				
SERIES No. 2814								1:1				

WAS T

FORM REV-4

Material Data Sheet

EMI Sleeve Core

SPECIFICATION FOR APPROVAL

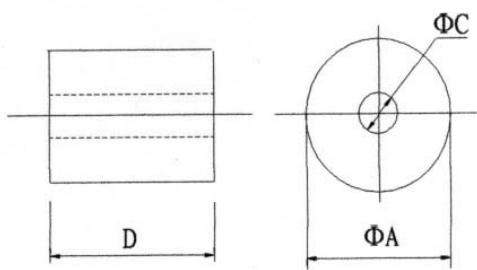
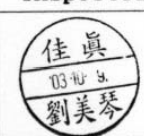
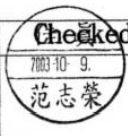
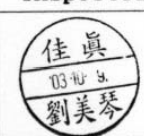
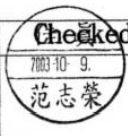
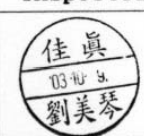
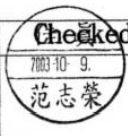
CUSTOMER: 萬旭電業股份有限公司		CUS' S P/N:		DATE: 2003/10/9	
ITEM: K5A RH 4X2X10		REF NO:10-13-040020100-0			
(1) DIMENSION (Unit:mm)					
		A	4.00	+ —	0.20 mm
				+ —	mm
		C	2.00	+ —	0.15 mm
		D	10.00	+ —	0.40 mm
				+ —	mm
				+ —	mm
				+ —	mm
				+ —	mm
				+ —	mm
		(2) ELECTRICAL REQUIREMENTS:			
		TEST FREQ	REMARK:		
		TEST FREQ			
Z	35 — 0 Ω	TEST FREQ	25 MHz		
Z	60 — 0 Ω	TEST FREQ	100 MHz		
		TEST FREQ			
COIL DATA	Qo= Lo=	PF	TEST FREQ		
Winding 0.65 Φ X 63 mm T.C.W 1 TS					
(3) TEST INSTRUMENTS					
1. IMPEDANCE ANALYZER: HP4191A					
DRAWN	CHECKED	APPROVED	ISSUE NO.		
DATE	DATE	DATE	WC-RH-039		

佳真股份有限公司
CORE-TECH CORPORATION

TEL: 03-4861211
FAX: 03-4861210

INSPECTION DATA

ISSUE NO:WC-RH-039

CUSTOMER	萬旭電業股份有限公司			DATE	2003/10/9		Quantity	0 pcs											
PART NO.	10-13-040020100-0																		
ITEM	K5A RH 4X2X10																		
COIL SPEC	0.65 Φ X 63 mm T.C.W 1 TS																		
COIL DATA	QO= CO= (PF)																		
TEST FREQ	FO= Hz Ft= 25,100 MHz																		
TEMPERATURE	28 °C	Humidity	87 %																
ELECTRIC CHAREC.				DIMENSION(Unit:mm)															
	L	Q	Z(25)	Z(100)	A	B	C	D	E	F	G	H	I						
SP			35.00	60.00	4.00		2.00	10.00											
+					0.20		0.15	0.40											
-			0	0	0.20		0.15	0.40											
1			45.00	82.00	3.96		2.02	9.95											
2			47.00	84.00	3.93		2.03	9.98											
3			46.00	82.00	3.92		2.09	9.96											
4			47.00	82.00	3.91		2.03	9.98											
5			45.00	81.00	3.95		2.08	9.96											
6			46.00	80.00	3.93		2.05	10.00											
7			46.00	81.00	3.95		2.03	10.02											
8			46.00	81.00	3.93		2.07	9.95											
9			46.00	80.00	3.92		2.09	9.93											
10			45.00	82.00	3.96		2.05	9.97											
X			45.90	81.50	3.94		2.05	9.97											
R			2.00	4.00	0.05		0.07	0.09											
TEST INSTRUMENTS 1. IMPEDANCE ANALYZER: HP4191A INSP No:																			
REMARK:																			
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Inspected	Checked	Approved																	
 03-10-9 劉美琴	 2003-10-9 范志榮																		

CORE-TECH CORPORATION

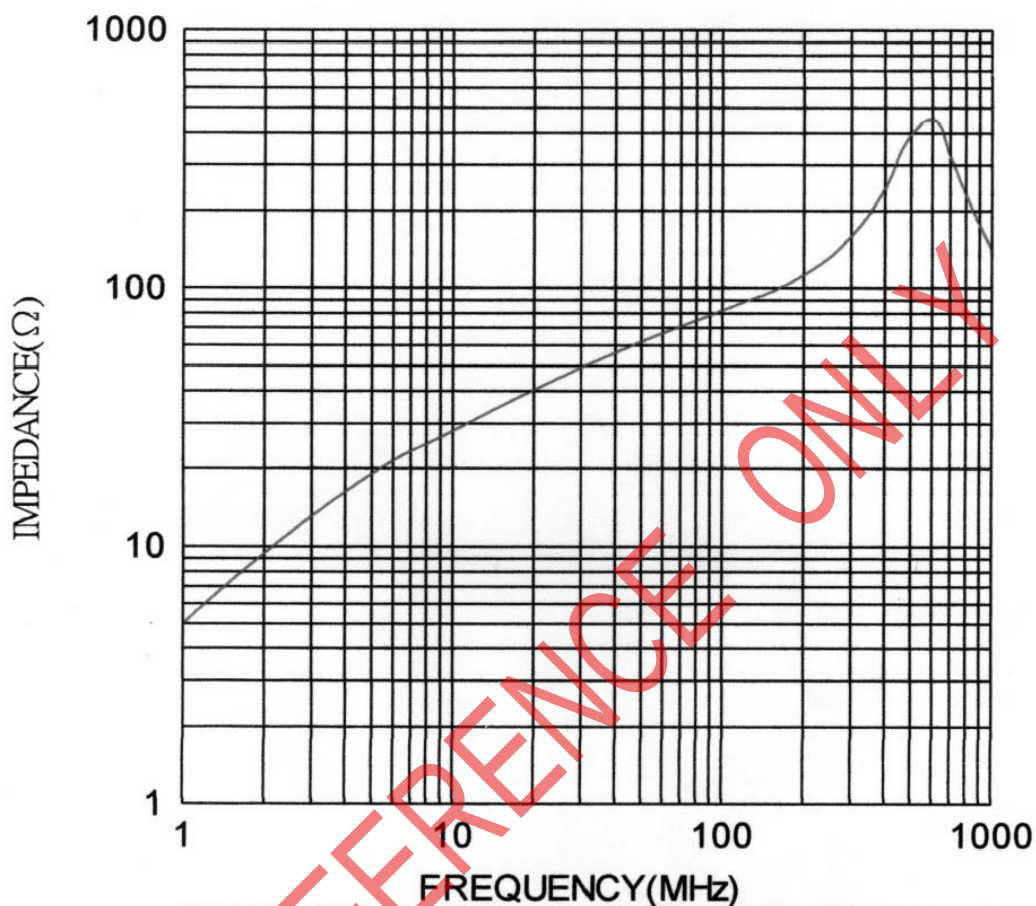
TEL:03-4861211
FAX:03-4861210

Z-F RESPONSE

K5A RH 4X2X10

1. TEST INSTRUMENT: HP4191A

2. WINDING: 0.65 Φ X63 mm T.C.W 1TS



	1	5	10	25	50	100	200	300	400	500	600	700	800	900	1000
Z—	5	19	28	45	62	82	113	160	244	392	452	322	229	176	141

(DATA BETWEEN 500MHz AND 1000MHz ARE FOR REFERENCE ONLY)

CORE-TECH CORPORATION

<http://www.coretechweb.com.tw>

E-mail: coretech@tptsl.seed.net.tw

TEL: 03-4861211 FAX: 03-4861210



WHA YU INDUSTRIAL CO., LTD. (HEAD OFFICE)
DONGGUAN AEON TECH CO., LTD. (CHINA)
TAI HWA ELECTRONIC CO., LTD. (CHINA)
SHANGHAI HUA YU ELECTRONIC CO., LTD. (CHINA)
SU ZHOU AEON TECH CO., LTD. (CHINA)

SPECIFICATION FOR APPROVAL

CUSTOMER: 明泰科技股份有限公司

PART NAME: RF Antenna Assembly

PART NO.:

REVISION:

W. Y. P/NO.: C037-510825-A(SSR-72055)

REV.: X1

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
APPROVED BY :	Andrew Liu 	
DATE :	2002.02.04	

WHA YU GROUP

WHA YU INDUSTRIAL CO., LTD. (HEAD OFFICE)

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台樺電業製品廠

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HUA HONG INTERNATIONAL LTD.

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Tel: +86-21-59741348 · +86-21-59744101-4 Fax: +86-21-59741347

SU ZHOU AEON TECH CO., LTD. (CHINA)

蘇州華廣電通有限公司

Address: Limin North Road, LiLi Town, LiLi Industrial Park, LinHu Economic Zone

Wujiang City, Jiangsu Province, China

Tel: +86-512-63627980 Fax: +86-512-63627981

Contents

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REFERENCE ONLY

RF Antenna Cable Assembly

Specification

1. Electrical Properties :

- 1.1 Frequency Range..... 2.4GHz ~ 2.5GHz
- 1.2 Impedance 50Ω Nominal
- 1.3 VSWR 1.92 : 1 Max.
- 1.4 Return Loss..... -10 dB Max.
- 1.5 Radiation Omni-directional
- 1.6 Gain(peak)..... 1.8dBi typ.
- 1.7 Polarization..... Linear; Vertical
- 1.8 Admitted Power..... 1W
- 1.9 Cable..... RG-178 Coaxial Cable
- 1.10 Connector..... SMA Plug Reverse

2. Physical Properties :

- 2.1 Antenna Cover..... TPE
- 2.2 Antenna Base..... PC
- 2.3 Antenna Base..... PBT
- 2.4 Operating Temp. -10℃ ~ +60℃
- 2.5 Storage Temp. -10℃ ~ +70℃
- 2.6 Color White

REV	DATE	DESCRIPTION
X1	06/22-2007	New Issue

Side View Dimensions:

- Length: 82.5±2
- Outer Diameter: $\Phi 7.8$
- Mounting Hole Diameter: $\Phi 9.3 \pm 0.1$

Top View Callouts:

- 1: Antenna Cap
- 2: Upper Fixed
- 3: Bottom Fixed
- 4: Rivet
- 5: Connector
- 6: Cable

Packing: 每Tray 整裝 20PCS 成品

GP 環保標籤

GP 標籤貼於紙箱兩側右上角(共2PCS)

成品淨重: 9.2 g.

NO	DESCRIPTION	QTY	REMARK
6	Cable	1	RG-178 Cable, Transparency Brown, 50Ω
5	Connector	1	SMA Straight Plug/Reverse
4	Rivet	2	POM, Color: White
3	Bottom Fixed	1	PBT, Color: White(WY-048)
2	Upper Fixed	1	PC, Color: White(WY-048)
1	Antenna Cap	1	TPE, Color: White(WY-048)

CUSTOMER'S SIGNATURE

APPROVED

CHECKED

DRAWING

CUSTOMER: 明 泰

PART NO :

PART NAME : RF Antenna Assembly

W.Y P/NO : C037-510825-A

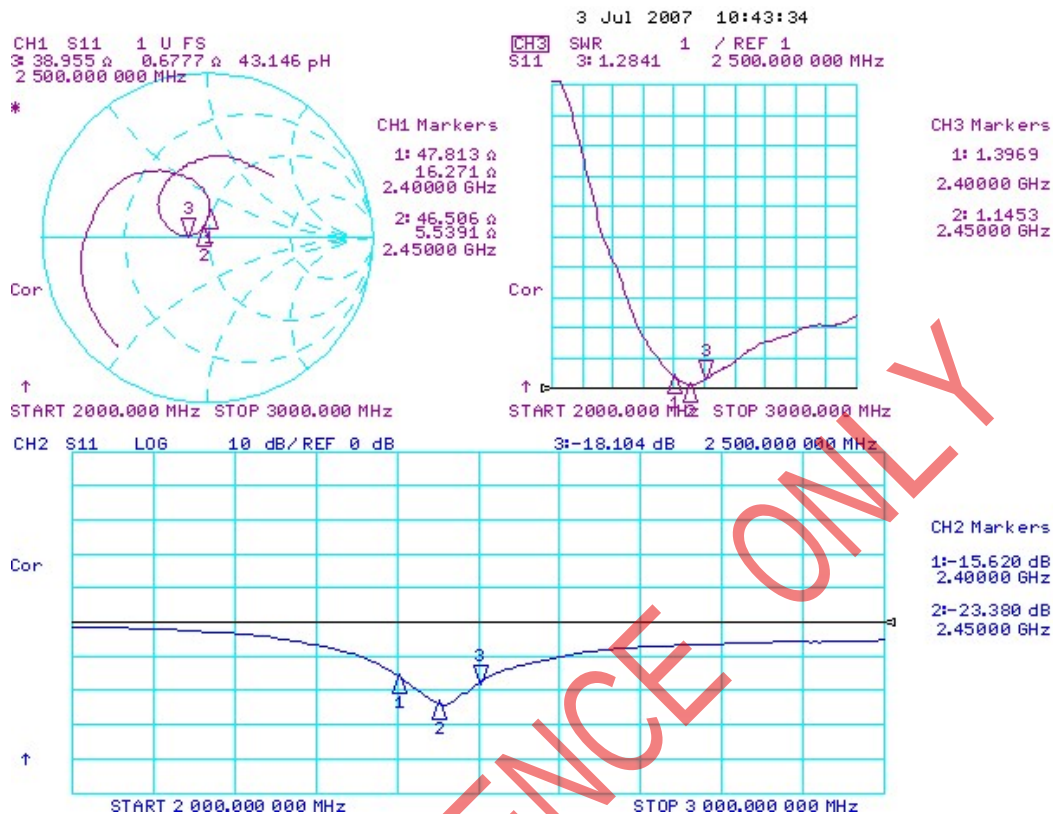
REV X1 UNIT m/m FILE : SSR-72055 SHEET : 1/1

Wha Yu Group

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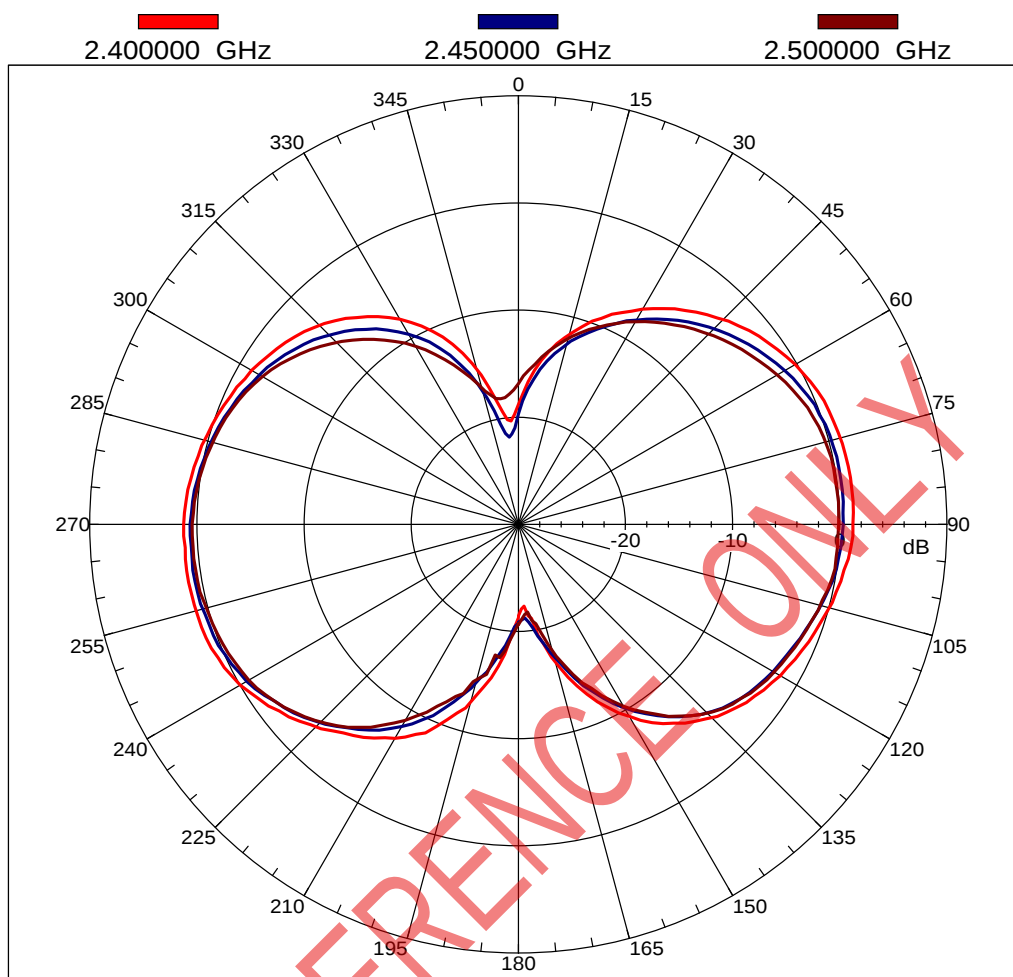
RF Antenna Assembly

P/NO :C037-510825-A(SSR-72055) SPEC : 2.4~2.5GHz



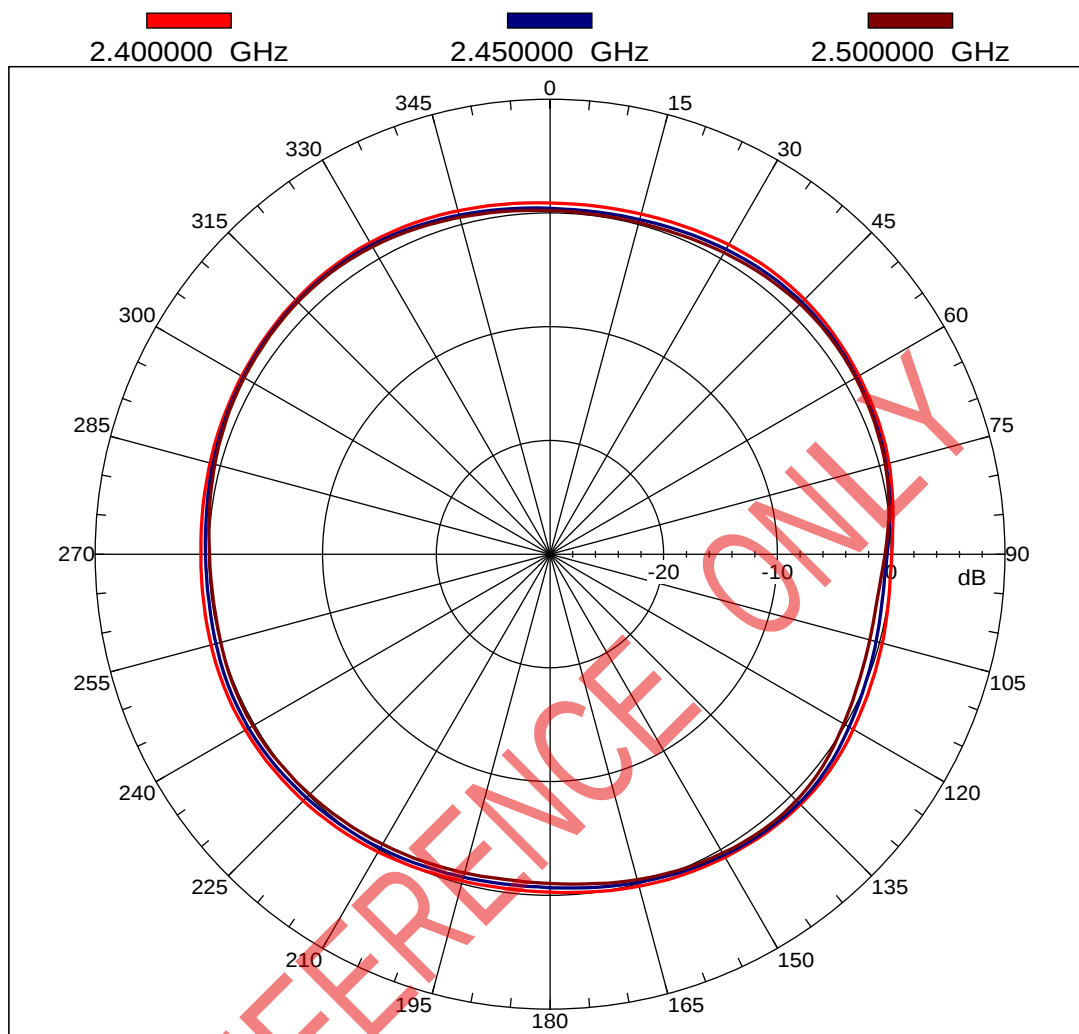
2007/7/3

Far-field amplitude of CC037-510825-A SSR-72055 E-PLANE.nsi



2007/7/3

Far-field amplitude of C037-510825-A SSR-72055 H-PLANE.nsi



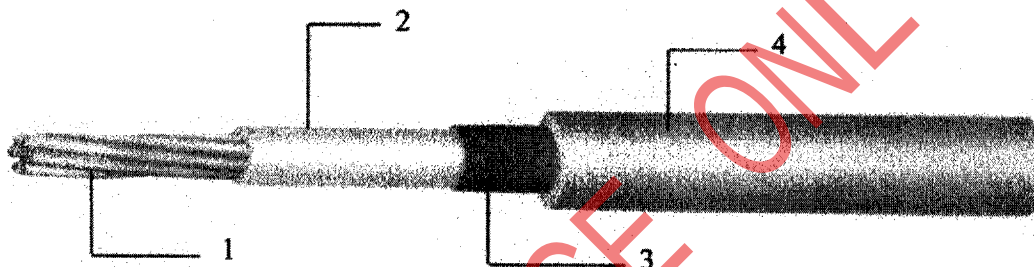
2007/7/3

RG 178 B/U	FEP INSULATED HIGH-FREQUENCY COAXIAL CABLE	PAGE	1 / 2
PRODUCT STANDARD		ISSUED	21. Oct. 2003
		REVISED	

I - Scope

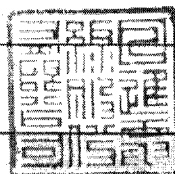
This specification presents a FEP insulated high-frequency coaxial cable AWG 30, 1.8 mm O.D. for internal wiring of electronic equipment, such as Computer / Notebook with wireless communication systems.

II - Construction



Item		Unit	Details
1. Inner Conductor	Material	—	CP-AG
	Composition	No./mm	AWG 30 or 7 × 0.1
	Dia. (approx.)	mm	0.305
2. Dielectric	Material	—	Extruded FEP
	Nom. O.D.	mm	0.84 ± 0.05
	Color	—	Natural
3. Outer Conductor	Material	—	Silver coated copper
	Composition	—	Braided (16 / 3 / 0.1)
	Dia. (approx.)	mm	1.29 ± 0.07
4. Jacket	Material	—	Extruded FEP
	Dia.	mm	1.80 ± 0.08
	Color	—	Standard color is Light Orange

Note :



MADE BY

APPROVALS

Shen Bin Chao
Shen Bin Chao

Nizing Electric Co., Ltd.

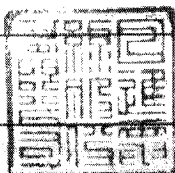
11-15 Santai Rd., Hsinchuang, Taipei Hsien, 242, Taiwan, R.O.C.
Tel: 02-29016164 Fax: 29050644 E-mail: shenbinnizing@yahoo.com.tw

RG 178 B/U	FEP INSULATED HIGH-FREQUENCY COAXIAL CABLE	PAGE	2 / 2
PRODUCT STANDARD		ISSUED	21. Oct. 2003
		REVISED	

III – Characteristics

Item	Unit	Specified Value	Note
Temperature Rating	°C	-55 ~ +200	
Voltage Lasting	V	1000	
Dielectric strength	—	Dielectric core: No breakdown at AC 3 kv for 0.2 sec.	Spark test
		Jacket: No breakdown at AC 3 kv for 0.2 sec.	Spark test
Characteristic Impedance	Ω	50 ± 2	TDR method
Capacitance	pF / ft	29.4	
Attenuation. (Max.)	dB/100ft	16.0	100.0 MHz
		33.0	400.0 MHz
		52.0	1.0 GHz
		94.0	3.0 GHz
Approx. Weight	g / m	7.68	

Note :



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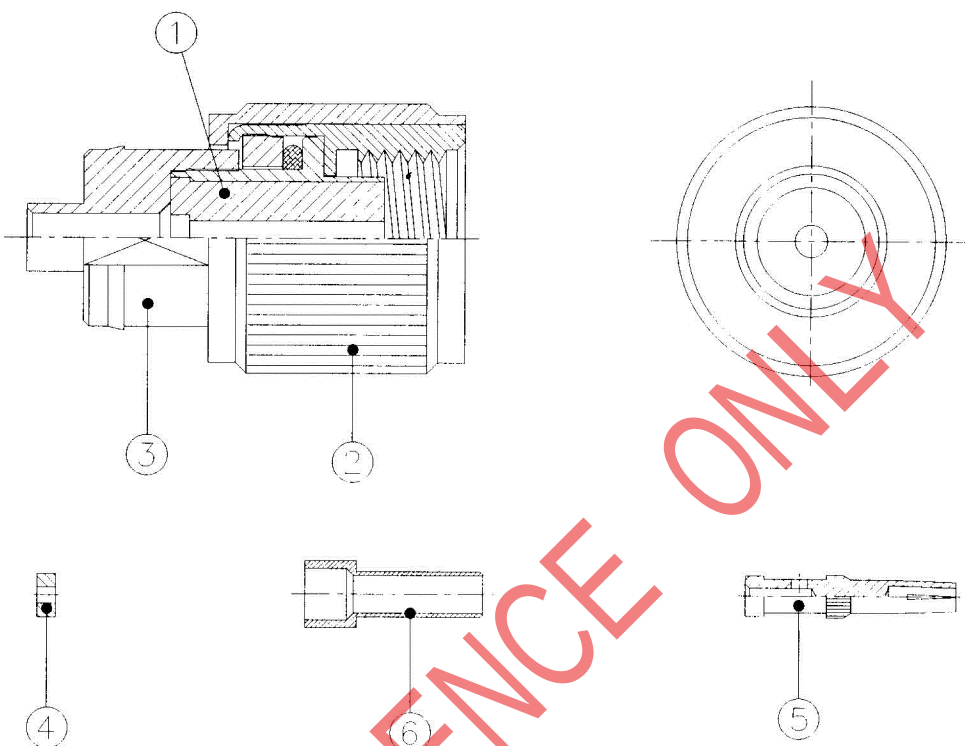
譚裕實業股份有限公司

WHA YU INDUSTRIAL CO., LTD

Connector 材質證明書

譚裕料號 Whayu P/N	100-2001156-AZ	產品名稱 Product Name	SMA Plug Reverse Straight For RG-178
-------------------	----------------	----------------------	--------------------------------------

結構圖面



材質成份									表面處理
1	絕緣體	Teflon	PTFE						N/A
2	外殼	POM	POM						W.Y-010
3	本體	Brass	Cu	Pb	Fe	Fe+Sn	Zn		鍍鎳
4	絕緣體	Teflon	PTFE						N/A
5	中心針	Phos. Bronze	Cu	Sn	P	Zn	Pb		鍍金
6	尾管	Brass	Cu	Pb	Fe	Fe+Sn	Zn		鍍鎳
Remark :									

Alpha P/N :

零組件品名1 :

零組件品名2 :



REFERENCE ONLY

505960079610G			
ANT CABLE Mini 1.13 L=80mm			
		THW0796A	
02-22988066			
REFERENCE ONLY Panton No: 			

承 認 書
SPECIFICATION FOR APPROVAL

客 戶
CUSTOMER

明泰科技股份有限公司

日 期
DATE

2006 / 08 / 09

品 名
DESCRIPTION

Mini 1.13 Cable Assembly (L=80)(K5A)
With RP-SMA Bulkhead Jack & MHF

客 戶 料 號
CUSTOMER P/N

505960079610G

成 品 編 號
Part NO.

THW0796A
(符合環保材)



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.

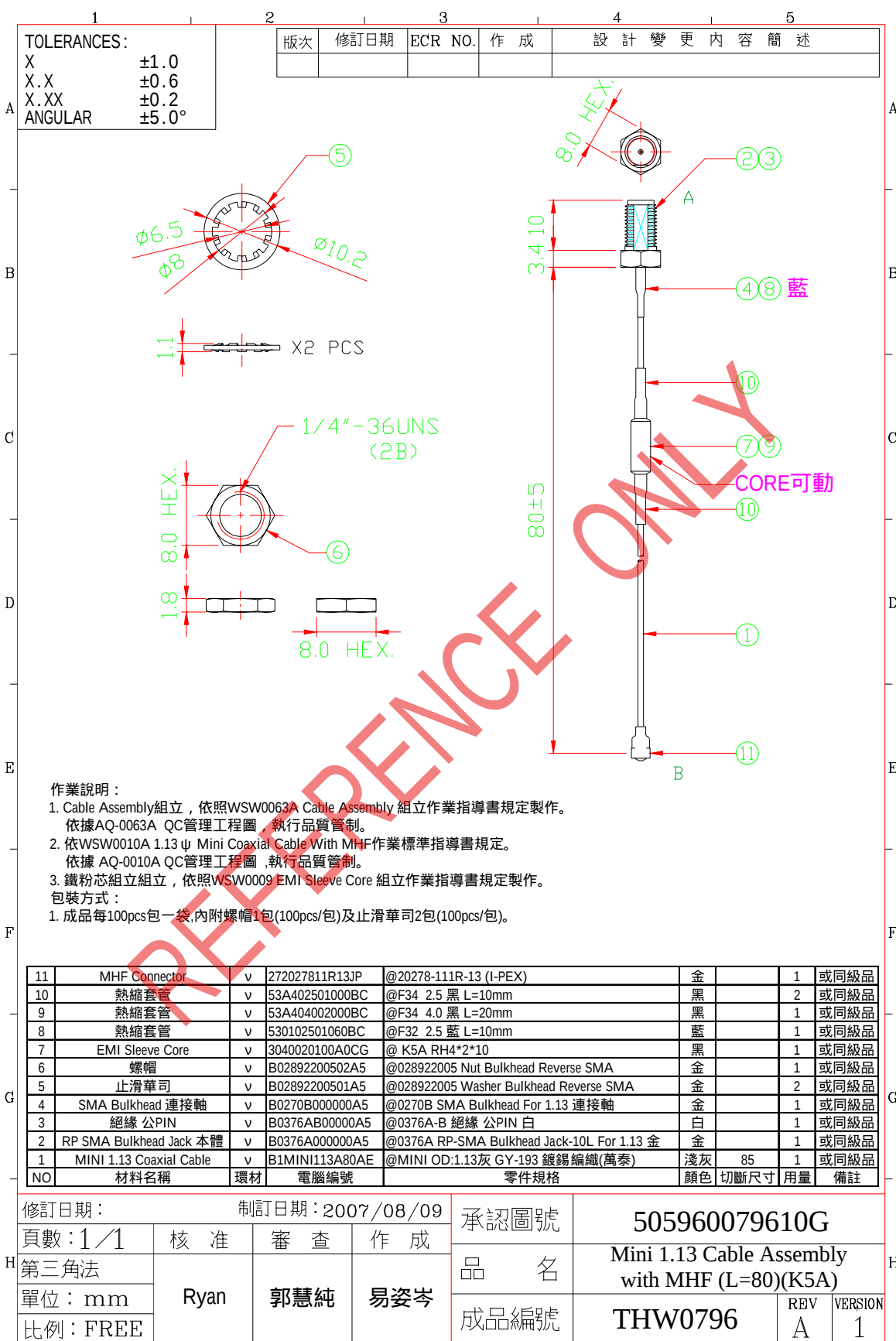
TEL : (02) 22988066 (5 LINE) FAX : (02)22981102

Table of Contents

Table of Contents	1
Specification	2
Drawing	3
Cable Assembly Electrical Characteristic	
Return Loss	4
V.S.W.R	5
Attenuation	6
Material Sheet	
Mini 1.13 Coaxial Cable	7-9
RP-SMA Bulkhead Jack	10
MHF Connector	11-14
EMI Sleeve Core	15-17

SPECIFICATION

1. Description : Mini 1.13 Cable Assembly
with RP-SMA Bulkhead Jack & MHF
2. Customer : 明泰科技股份有限公司
3. Part No. : THW0796A
4. Coaxial Length : 80 mm (see Drawing)
5. Electrical Characteristics
 - Operating Frequency : 1~6 GHz
 - Impedance : 50 Ohm nominal
 - Attenuation. : -2.0dB Max.
6. Mechanical Characteristics
 - Connector : RP-SMA Bulkhead Jack
: MHF
7. Raw Material
 - Coaxial Cable : Mini 1.13
 - Core : K5A RH4*10*2

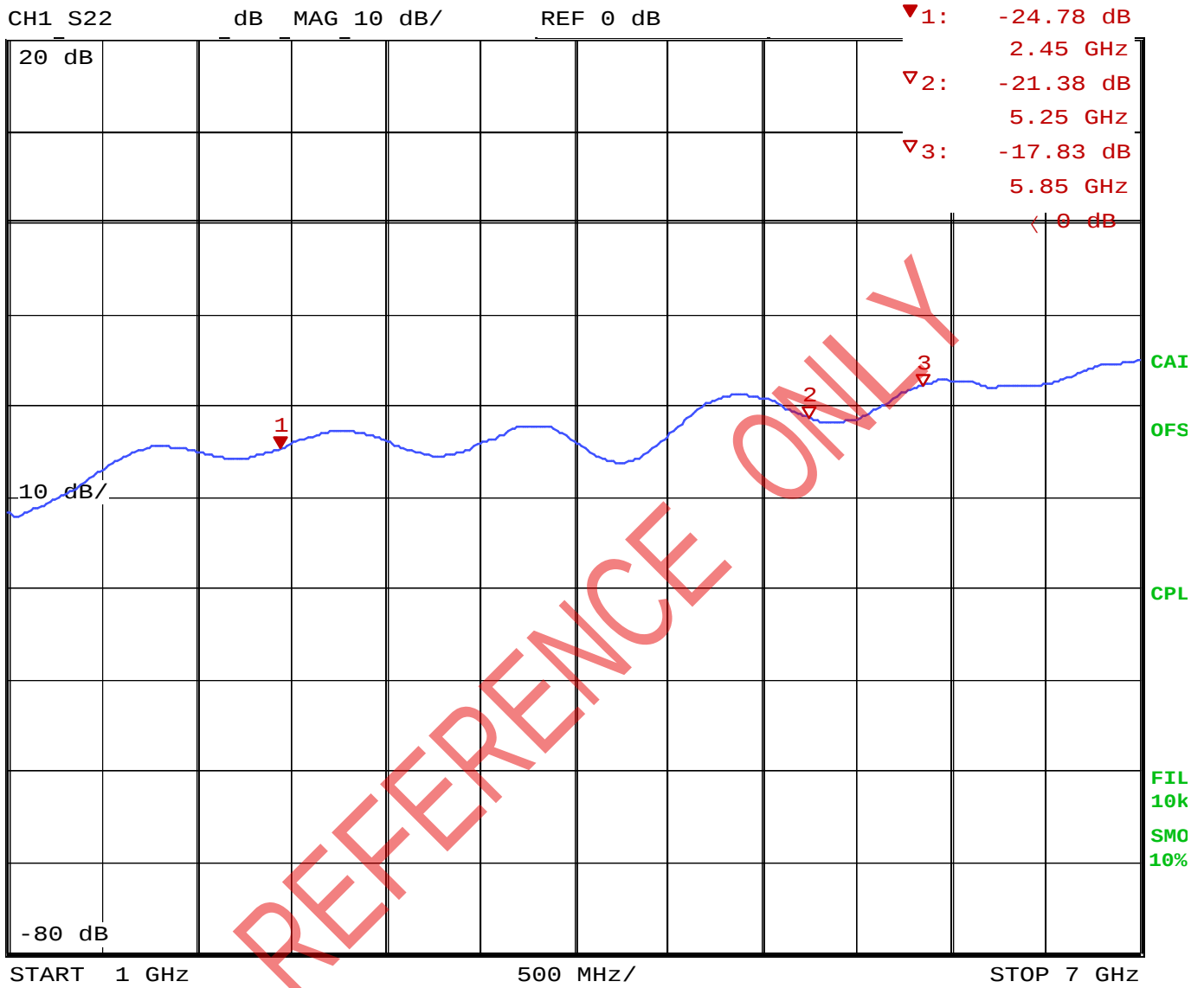


萬旭電業股份有限公司

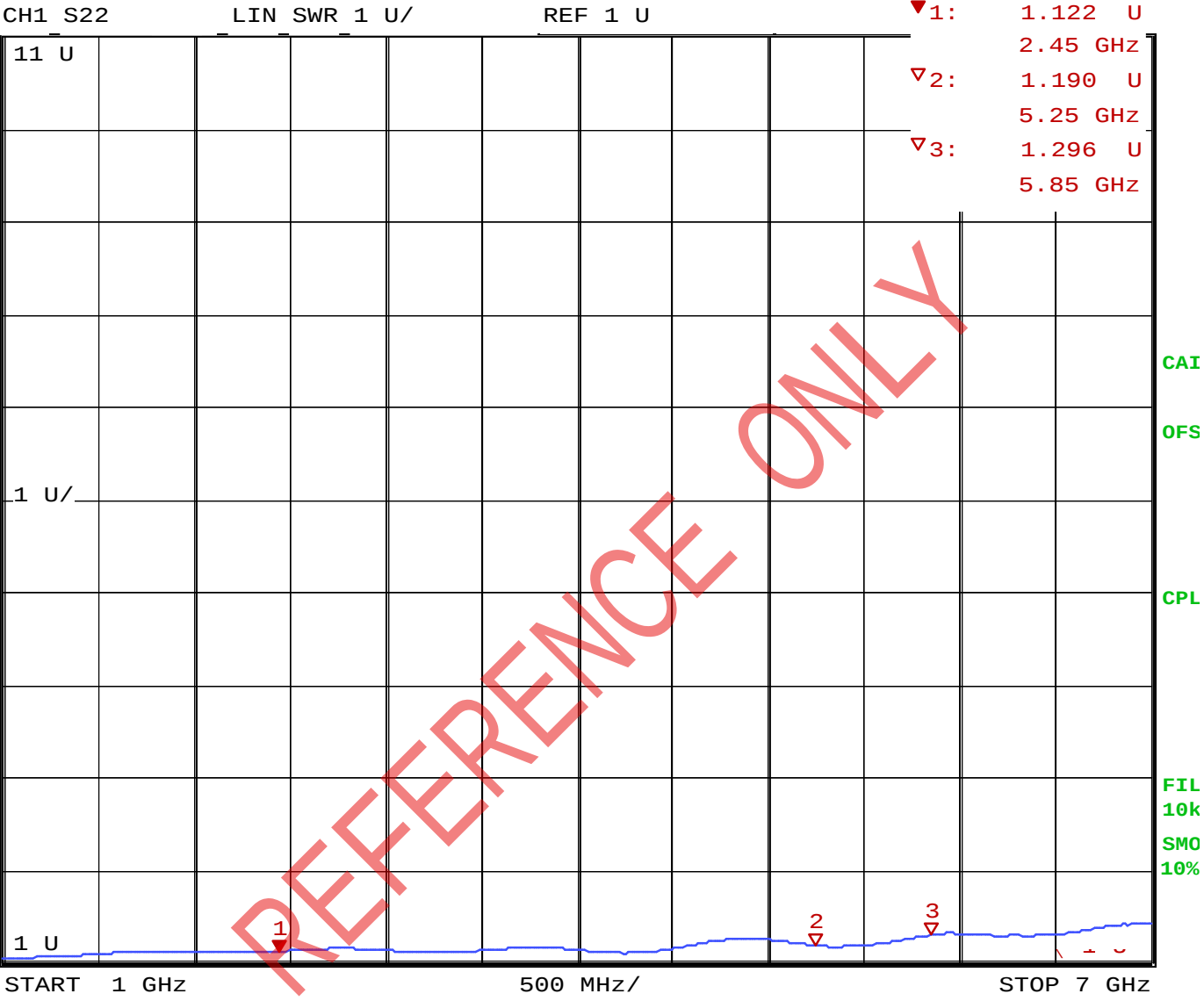
50文件編號：FMT-0513-D7

Electrical Characteristic

Return Loss

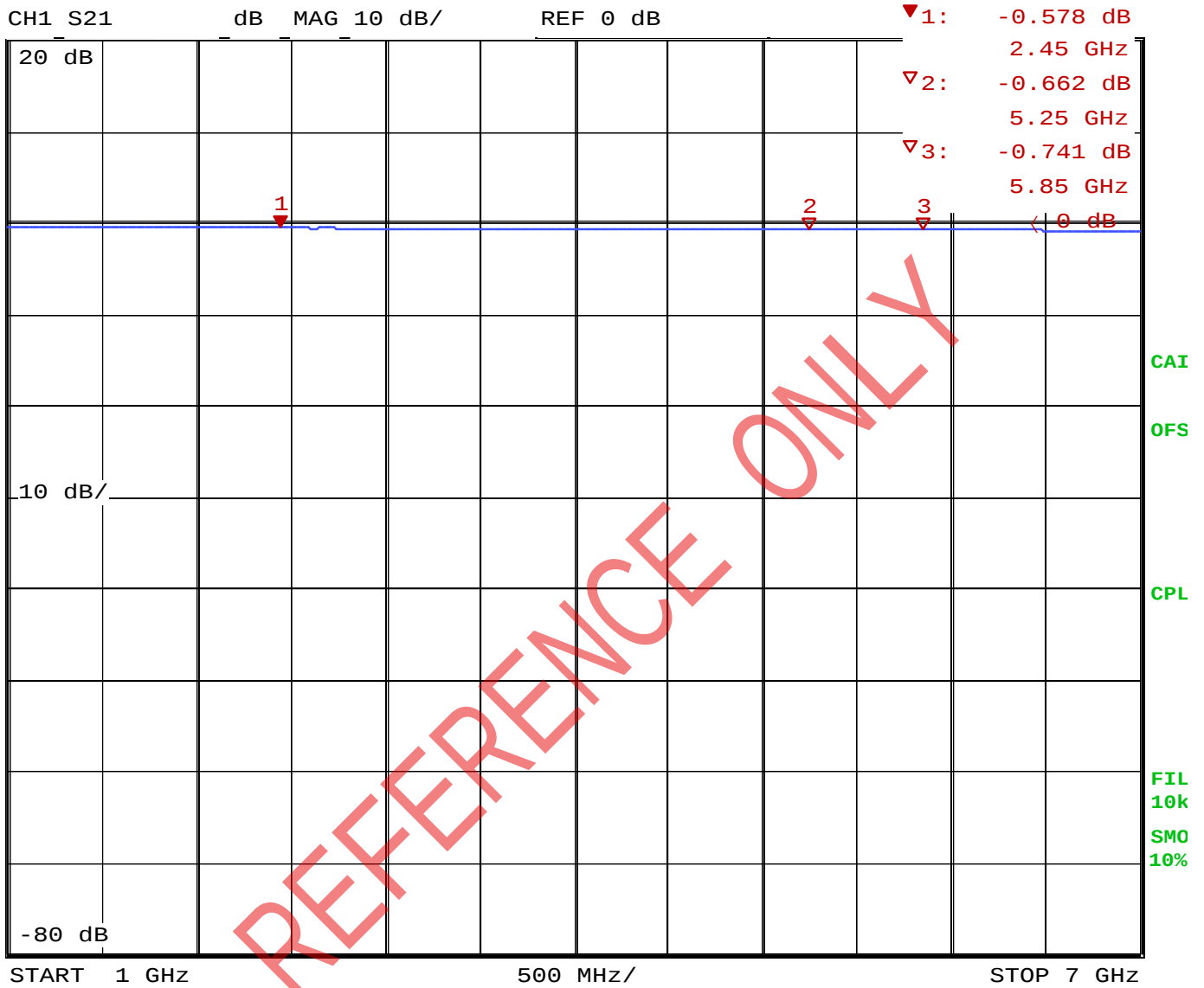


Electrical Characteristic
V.S.W.R



Electrical Characteristic

Attenuation



Material Data Sheet

Mini-1.13 Coaxial Cable

SPECIFICATION FOR APPROVAL

DOCUMENT: A3132TS001

STYLE : COAXIAL CABLE
105°C 30V

SIZE: 32AWG×1C
BRAID : TS

RECOGNIZED: UL 1979



WONDERFUL HI-TECH CO.,LTD.

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

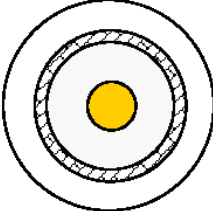
TEL : (02)22988033
FAX : (02)22988031-2

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 UL 1979	DOCUMENT NO : A3132TS001
SIZE	32AWG	ESTABLISHED DATE: 2005/05/11
STANDARD :		
Conductor	Size	AWG 32
	Material	Silver Cover Copper
	Conductors No.	7
	Conductors Size	mm 0.080
	O.D.	mm 0.240
Insulation	Average Thickness	mm 0.22
	Diameter	mm 0.68 ± 0.02
	Material	FEP
	Color	Clear
Braid	Material	Tinned Copper
	Construction	mm 16 / 4 / 0.050
	Coverage	% 90
Jacket	Average Thickness	mm 0.13
	Diameter	mm 1.13 ± 0.05
	Material	FEP
	Color	According to custom
Marking	Non	
Drawing		

AK001/210X297/1.0

PAGE : 1

EDITION : 1.1

MAKER : C.Y.CHEN

CONFIRM : S.N.WONG

APPROVAL : W.J.WANG



WONDERFUL HI-TECH CO., LTD. SPECIFICATION

Electrical & Physical Properties						
Item		32AWG				
Rating Temp Voltage		105°C 30V				
Conductor Resistance		545 OHM/KM/20°C MAX.				
Insulation Resistance		1000 MEGA OHM/KM MIN.				
Dielectric Strength		AC 500 V/Minute				
Spark Test		2.5 KV				
Insulation	Unaged	Tensile Strength	2500 PSI MIN.(1.76 Kg / m m²)			
		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 m²)			
		Elongation	200% MIN.			
	Aged	Tensile Strength	UNAGED MIN.75%(168HRS×232°C)			
		Elongation	UNAGED MIN.75%(168HRS×232°C)			
Nom. Impedance		50 ± 3 Ohms				
Nom. Capacitance		96 ± 3 pF/m				
Nom. Vel. of Prop.		69%				
VSWR Test (0 – 6 GHZ)		Less 1.3				
Flame Test		VW-1 OK				
Attenuation (dB/1m)		2.0GHZ	2.4GHZ	2.5GHZ	5.0GHZ	6.0 GHZ
		2.80	3.10	3.15	4.85	5.20

AK001/210X297/1.0

PAGE : 2

EDITION : 1.1

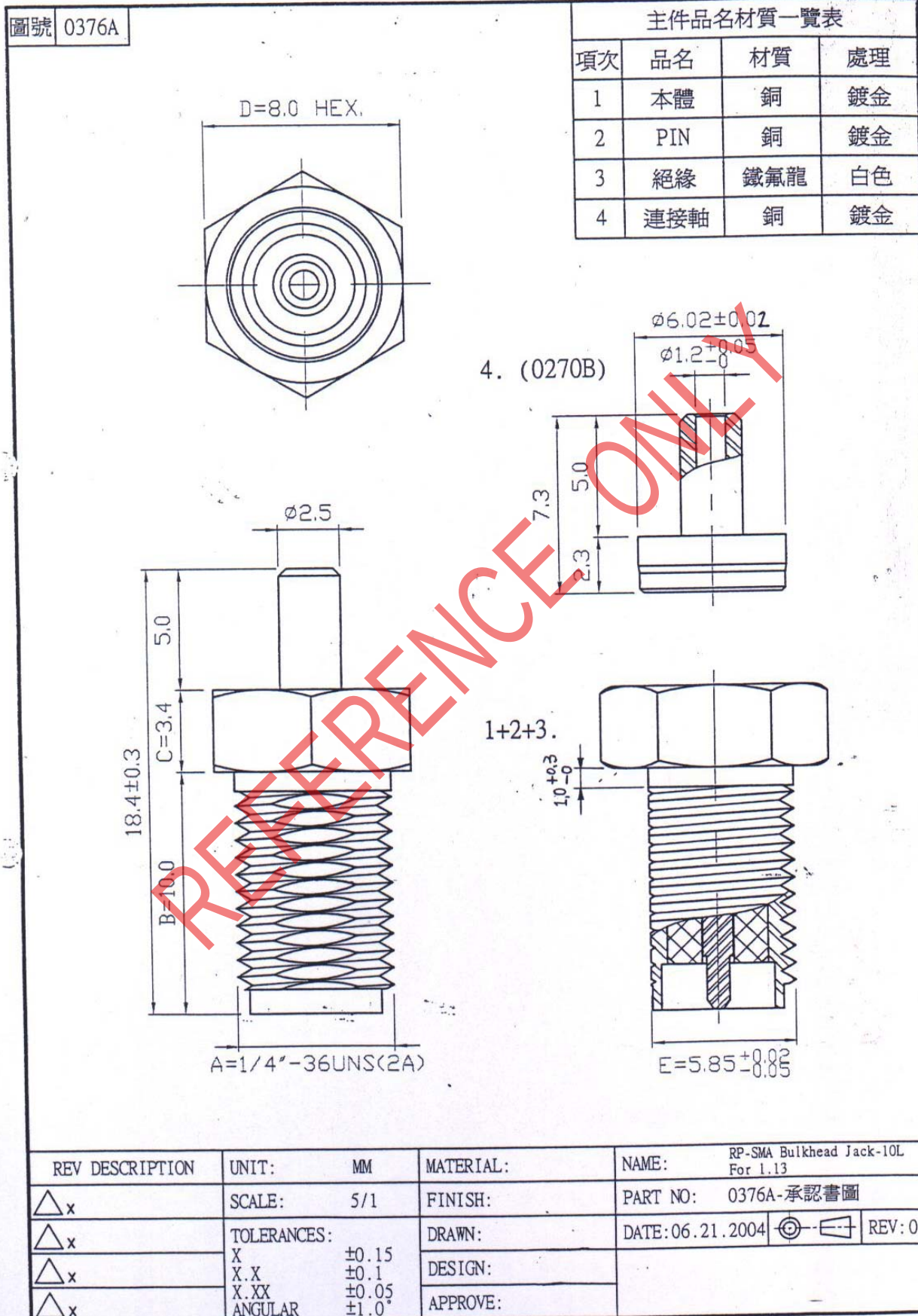
MAKER : C.Y.CHEN

CONFIRM : S.N.WONG

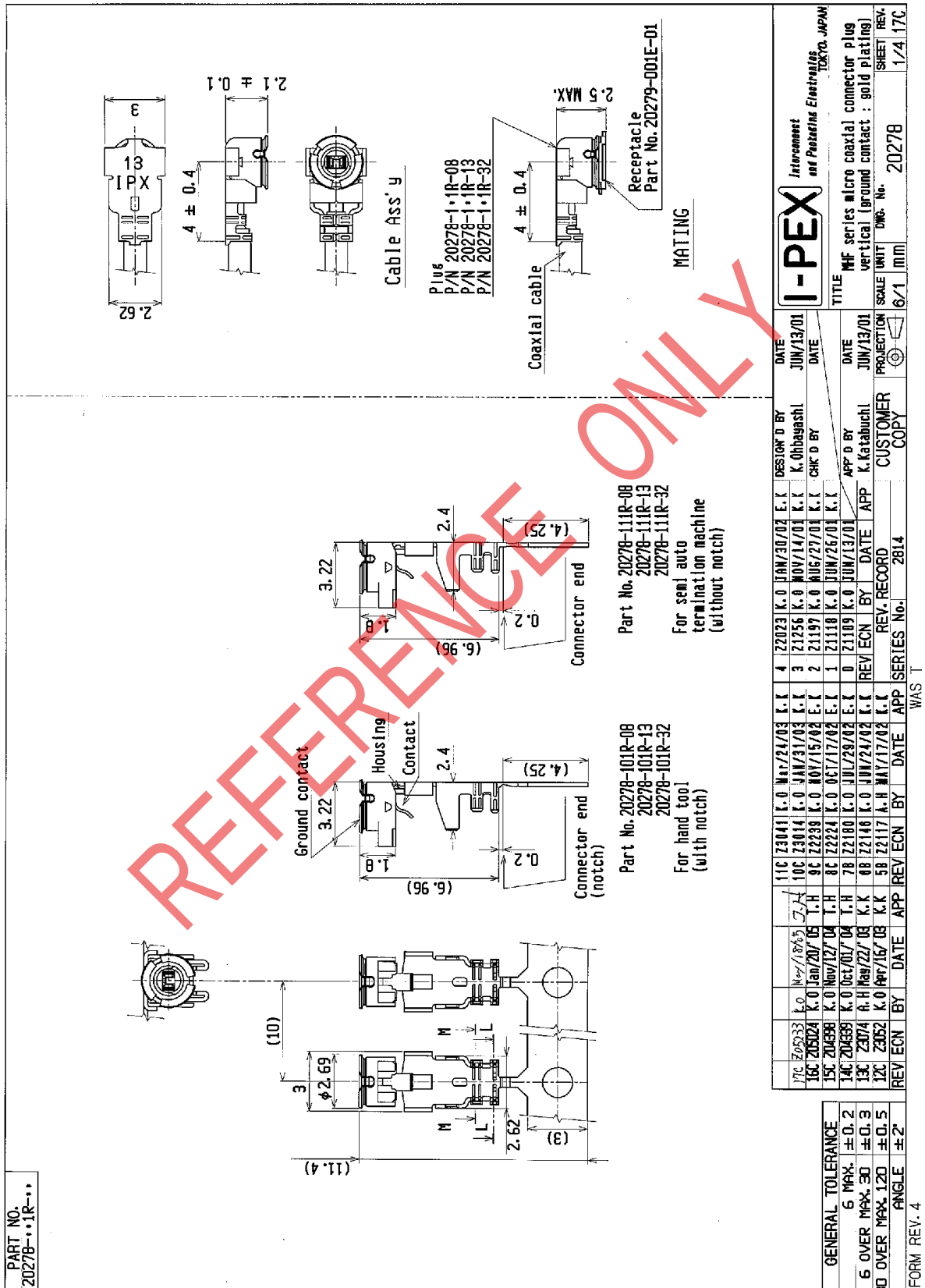
APPROVAL : W.J.WANG

Material Data Sheet

RP-SMA Bulkhead Jack



MHF Connector



[illegible]

GENERAL TOLERANCE	
6 MAX.	±0.2
6 OVER MAX. 30	±0.3
30 OVER MAX. 120	±0.5
ANGLE	±2°

FORM REV. 4

		DESIGN'D BY		DATE		I-PEX		<i>Interconnect and Prototyping Electronics</i> TOKYO, JAPAN			
		CHK'D BY		DATE							
		APP'D BY		DATE							
REV	ECN	BY	DATE	APP	TITLE						
REV. RECORD					MF series micro coaxial connector plug vertical (ground contact : gold plating)						
SERIES No.	2014				CUSTOMER COPY	PROJECTION	SCALE	UNIT	DWG. No.	SHEET REV.	
							A/1	mm	20278	2/4 17C	

WAS T

Part No.	2027B-101R-08 2027B-111R-08	2027B-101R-13 2027B-111R-13	2027B-101R-32 2027B-111R-32	2027B-101R-18 2027B-111R-18
Housing color	White	Black	Black	White
Applicable cable nominal dimension	2.09±0.1 1.25±0.1 1.16±0.1	2.09±0.1 1.25±0.1 1.16±0.1	2.09±0.1 1.25±0.1 1.16±0.1	2.09±0.1 1.25±0.1 1.16±0.1
Jacket	Outer conductor silver or tin plating Dielectric core Inner conductor silver plating	Outer conductor silver or tin plating Dielectric core Inner conductor silver plating	Outer conductor silver or tin plating Dielectric core Inner conductor silver plating	Outer conductor silver or tin plating Dielectric core Inner conductor silver plating
Braided shield of Outer conductor 外部導体の編組	Single / 1重編組	Single / 1重編組	Double / 2重編組	Single / 1重編組
P/N of hand Tool	90187-008C	90187-013C	90187-032C	90233-018
P/N of seal auto termination machine	90213-008C	90213-013C	90213-032C	90232-018
Sect. M-M	1.68 1.12	2.24 1.48	2.29 1.56	2.71 1.9
Sect. L-L	1.72 1.19	2.28 1.55	2.37 1.71	3.1 2.26
Crimp Height	CH-1 1.34~1.40 CH-2 0.76~0.84 CH-3 0.85~0.97	1.34~1.40 1.06~1.14 1.15~1.35	1.34~1.40 1.20~1.30 1.26~1.46	1.34~1.40 1.41~1.49 1.70~1.80
Cable cut length				
Crimp Height				

I-PEX
 Interconnect
 and Packaging Electronics
 TOKYO, JAPAN

TITLE MF series micro coaxial connector plug
 vertical (ground contact : gold plating)
 SCALE UNIT Dwg. No. 2027B SHEET REV.
 -/- mm 3/417C

Part No. 2027B-101R-08 2027B-111R-08
 2027B-101R-13 2027B-111R-13
 2027B-101R-32 2027B-111R-32
 2027B-101R-18 2027B-111R-18

NOTE-1
 中心導体、外部導体への半田コーティングは不可
 Must not use solder coated
 Inner conductor and outer conductor.

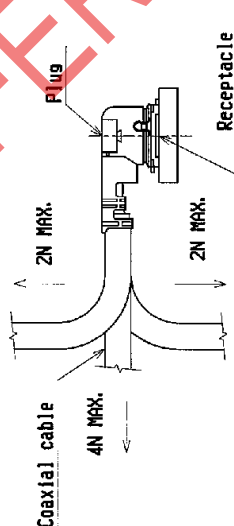
GENERAL TOLERANCE
 6 MAX ±0.2
 6 OVER MAX. 30 ±0.3
 30 OVER MAX. 120 ±0.5
 ANGLE ±2°

FORM REV. 4
 WAS T

5-2 コネクタ抜き時

1. Material
(1) Housing : PBT , UL94V-0
(2) Contact
 phosphor bronze
 gold plating $0.1\mu\text{m}$ MIN.
 over nickel $1.27\mu\text{m}$ MIN.
(3) Ground contact
 phosphor bronze
 gold plating $0.05\mu\text{m}$ MIN.
 over nickel $1.27\mu\text{m}$ MIN.
2. Packing : reel
3. Mating partner part No.
 : 20279-001E-01
4. Permissible load of cable at mating

1. 材料
(1) ハウジング：PBT, UL94V-0
(2) コネクタ
 リウ青銅
 金メッキ0.1 μ m MIN.
 下駄 ニッケル1.27 μ m MIN.
(3) グランドコネクタ
 リウ青銅
 金メッキ0.05 μ m MIN.
 下駄 ニッケル1.27 μ m MIN.
2. 部品：リール
3. 部品：合線手 part. No.
 ：20759-001E-01
4. コネクタが、合線のケーブルに刺さる構造

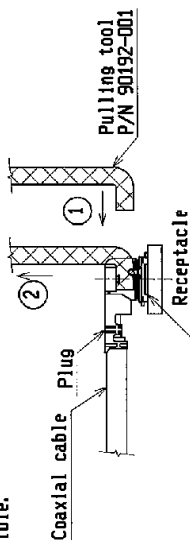


5. コネクタかん合時および抜去時の注意

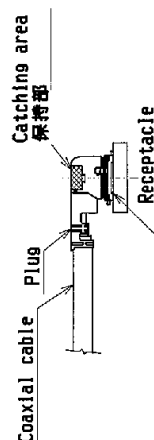
1 mating. Please mate the connector straightly to vertical direction as much as possible, adjusting the mating axis of plug and receptacle. As excessive slant angle mating may break the connector, please don't do it.

5-1 コネクタ挿入時
PlugとReceptacleのかん合軸を合わせ、

できるだけ要道に押入して下さい。
 離婚は斜め押入は行わないで下さい。
 □ネグタ波風の要因となりますので、週波なこじり
 事故は行わないで下さい。



- (2) In case of unmating directly by hand
Please catch the catching area of plug, and please pull plug to vertical direction as directly as possible.



5-3 Crimp over standards of outer conductor

Standards: Less than 10% from total numbers of outer conductor
((Numbers of outer conductor's crimp over from outer conductor's barrel))

5-4 Caution about Heat shrinkage tubes

Please be careful not to melt housing when using heat shrinkage tubes. It will become cause of open circuit.

5. This is 'Pb-free' connector.

GENERAL TOLERANCE			
6 MAX.	±0.2		
6 OVER MAX. 30	±0.3		
30 OVER MAX. 120	±0.5		
ANGLE	±2°		

I-PEX <i>Interconnect</i> and Packaging Electronics TOKYO, JAPAN		TITLE MF series micro coaxial connector plug vertical (ground contact : gold plating)	
DESIGN'D BY	DATE	PROJECTION	SCALE
CHK'D BY	DATE	UNIT	UNIT
APP'D BY	DATE	mm	mm
REV	ECN	BY	DATE
REV. RECORD		CUSTOMER	COPY
SERIES No. 2814		SHEET REV. 4/4 17C	
20278		20278	

FORM REV-4

Material Data Sheet

EMI Sleeve Core

SPECIFICATION FOR APPROVAL

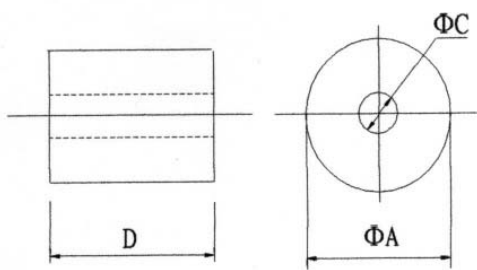
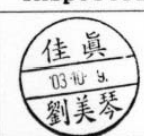
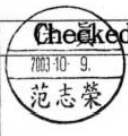
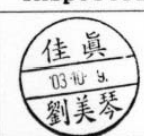
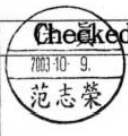
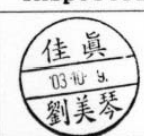
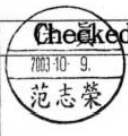
CUSTOMER: 萬旭電業股份有限公司		CUS' S P/N:		DATE: 2003/10/9		
ITEM: K5A RH 4X2X10		REF NO:10-13-040020100-0				
(1) DIMENSION (Unit:mm)						
		A	4.00	+ —	0.20	mm
				+ —		mm
		C	2.00	+ —	0.15	mm
		D	10.00	+ —	0.40	mm
				+ —		mm
				+ —		mm
				+ —		mm
				+ —		mm
				+ —		mm
		(2) ELECTRICAL REQUIREMENTS:				
		TEST FREQ	REMARK:			
		TEST FREQ				
Z	35 — 0 Ω	TEST FREQ	25 MHz			
Z	60 — 0 Ω	TEST FREQ	100 MHz			
		TEST FREQ				
COIL DATA	Qo= Lo=	PF	TEST FREQ			
Winding 0.65 Φ X 63 mm T.C.W 1 TS						
(3) TEST INSTRUMENTS						
1. IMPEDANCE ANALYZER: HP4191A						
DRAWN	CHECKED	APPROVED	ISSUE NO.			
DATE	DATE	DATE	WC-RH-039			

佳真股份有限公司
CORE-TECH CORPORATION

TEL: 03-4861211
FAX: 03-4861210

INSPECTION DATA

ISSUE NO:WC-RH-039

CUSTOMER	萬旭電業股份有限公司			DATE	2003/10/9		Quantity	0 pcs											
PART NO.	10-13-040020100-0																		
ITEM	K5A RH 4X2X10																		
COIL SPEC	0.65 Φ X 63 mm T.C.W 1 TS																		
COIL DATA	Q0= C0= (PF)																		
TEST FREQ	F0= Hz Ft= 25,100 MHz																		
TEMPERATURE	28 °C	Humidity	87 %																
ELECTRIC CHAREC.				DIMENSION(Unit:mm)															
	L	Q	Z(25)	Z(100)	A	B	C	D	E	F	G	H	I						
SP			35.00	60.00	4.00		2.00	10.00											
+					0.20		0.15	0.40											
-			0	0	0.20		0.15	0.40											
1			45.00	82.00	3.96		2.02	9.95											
2			47.00	84.00	3.93		2.03	9.98											
3			46.00	82.00	3.92		2.09	9.96											
4			47.00	82.00	3.91		2.03	9.98											
5			45.00	81.00	3.95		2.08	9.96											
6			46.00	80.00	3.93		2.05	10.00											
7			46.00	81.00	3.95		2.03	10.02											
8			46.00	81.00	3.93		2.07	9.95											
9			46.00	80.00	3.92		2.09	9.93											
10			45.00	82.00	3.96		2.05	9.97											
X			45.90	81.50	3.94		2.05	9.97											
R			2.00	4.00	0.05		0.07	0.09											
TEST INSTRUMENTS 1. IMPEDANCE ANALYZER: HP4191A INSP No:																			
REMARK:																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Inspected</td> <td style="width: 33%;">Checked</td> <td style="width: 33%;">Approved</td> </tr> <tr> <td style="text-align: center;">  03-10-9 劉美琴 </td> <td style="text-align: center;">  2003-10-9 范志榮 </td> <td></td> </tr> </table>														Inspected	Checked	Approved	 03-10-9 劉美琴	 2003-10-9 范志榮	
Inspected	Checked	Approved																	
 03-10-9 劉美琴	 2003-10-9 范志榮																		

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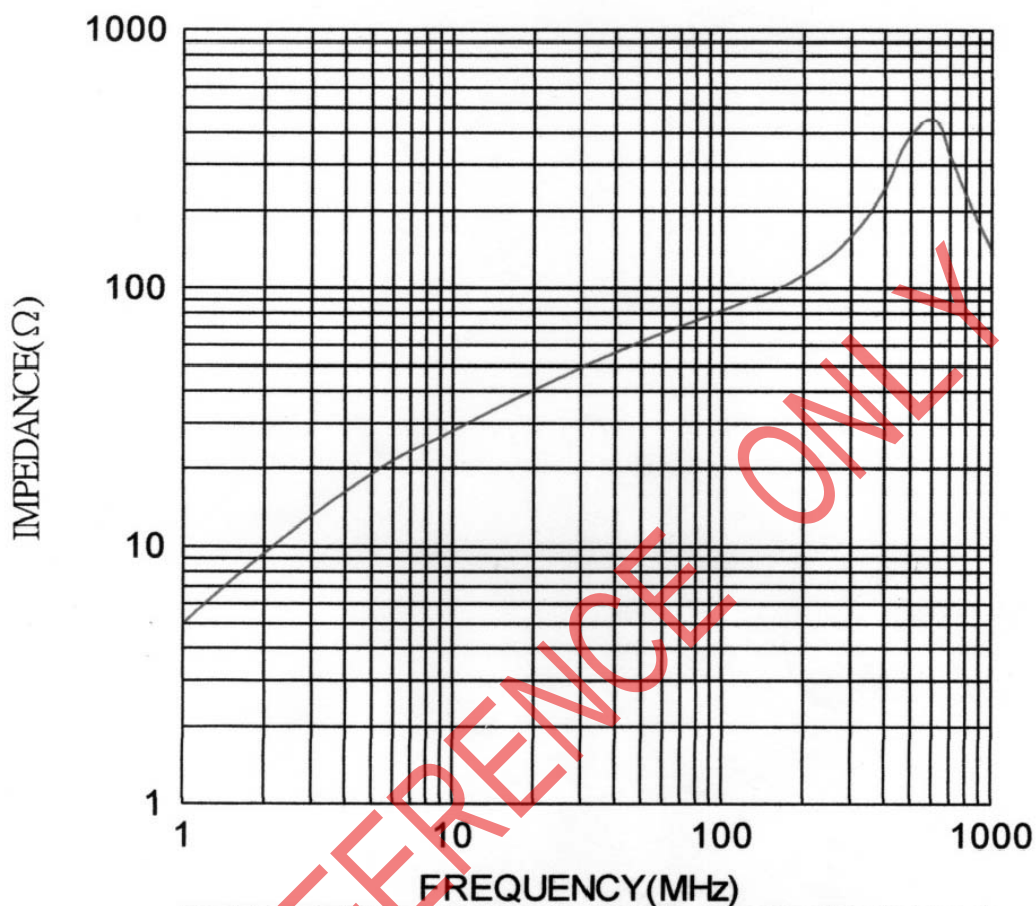
TEL:03-4861211
FAX:03-4861210

Z-F RESPONSE

K5A RH 4X2X10

1. TEST INSTRUMENT: HP4191A

2. WINDING: 0.65 Φ X63 mm T.C.W 1TS



	1	5	10	25	50	100	200	300	400	500	600	700	800	900	1000
Z—	5	19	28	45	62	82	113	160	244	392	452	322	229	176	141

(DATA BETWEEN 500MHz AND 1000MHz ARE FOR REFERENCE ONLY)

CORE-TECH CORPORATION

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