

Alpha PN : 505960079510G

零組件品名 : ANT CABLE Mini 1.13 L=150mm



REFERENCE ONLY

零組件承認/申請報告書

編號 E24682

2007/8/27

Alpha P/N : 505960079610G		申請者 :		主管 :	
零組件品名 : ANT CABLE Mini 1.13 L=80mm					
原製造廠商 : 電			原廠編號 : THW0796A		
代理商 : 電					
聯絡人 :			電話 : 02-22988066		
應用機種 :					
COMMENTS :					
結果 號 Panton No: 主管 : ☐ 承辦者 : 日期 : // : :					
結果	合格	審核	// : :		

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.

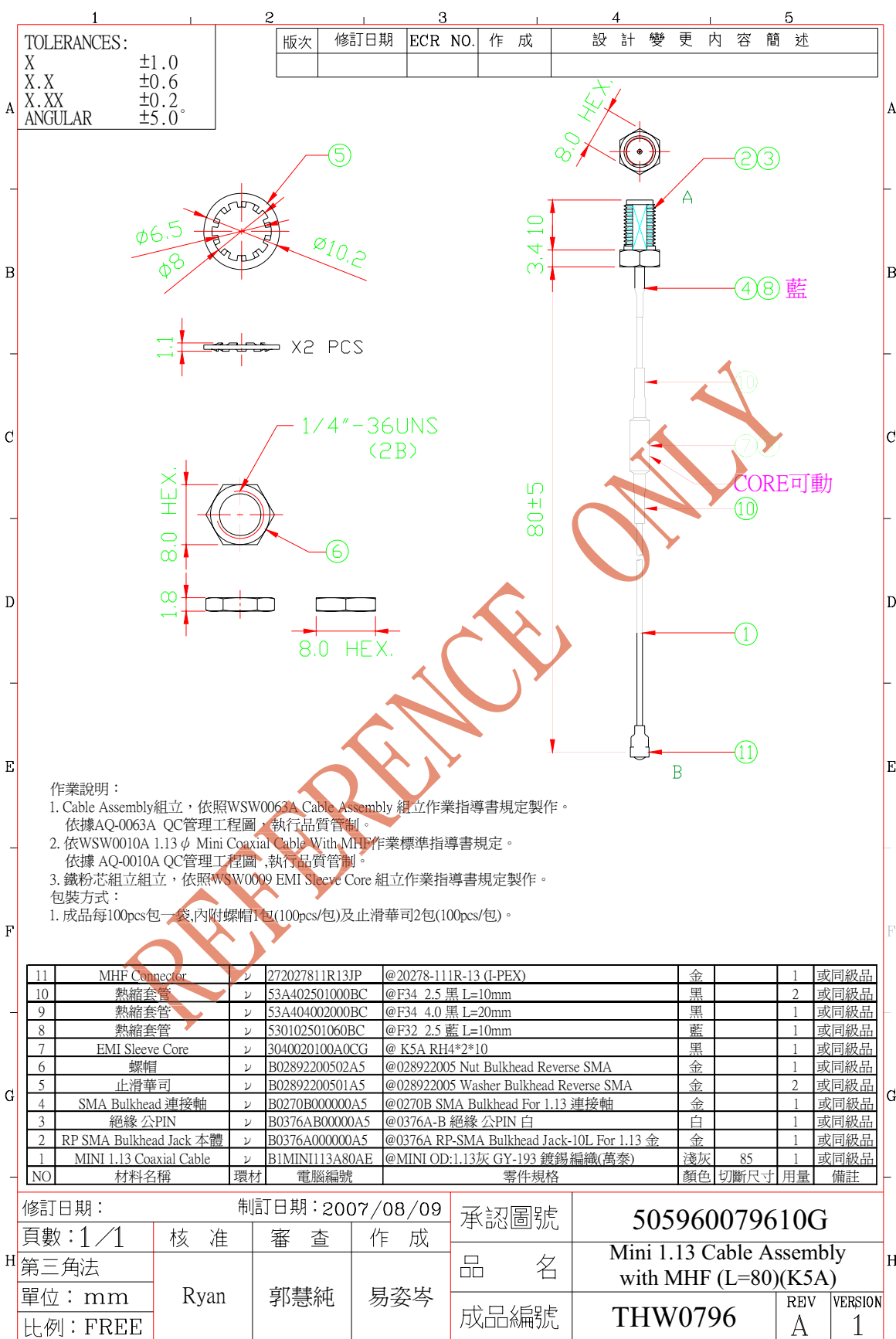
TEL : (02) 22988066 (5 LINE) FAX : (02)22981102

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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

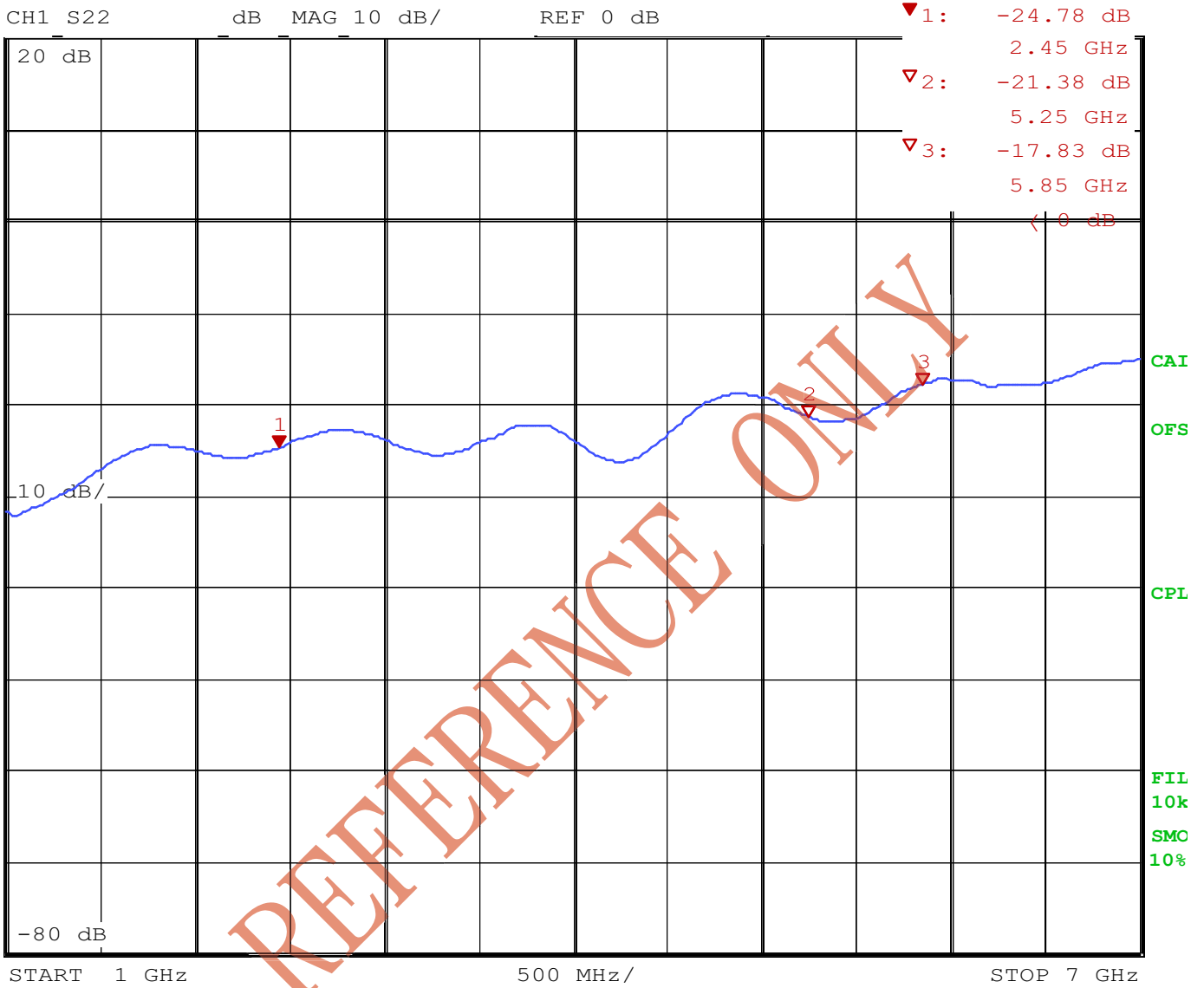


萬旭電業股份有限公司

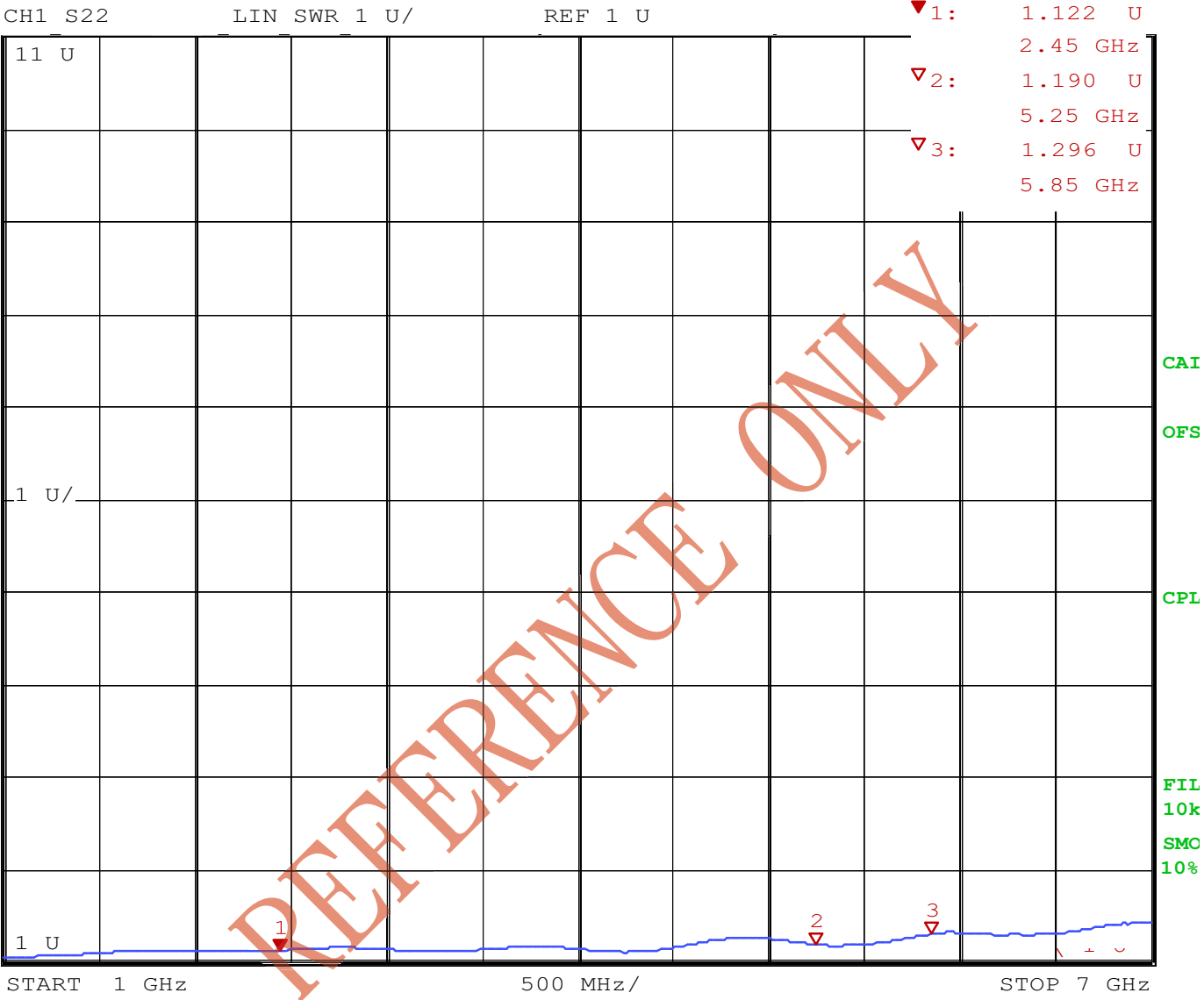
文件編號: FMT-0513-D7

Electrical Characteristic

Return Loss

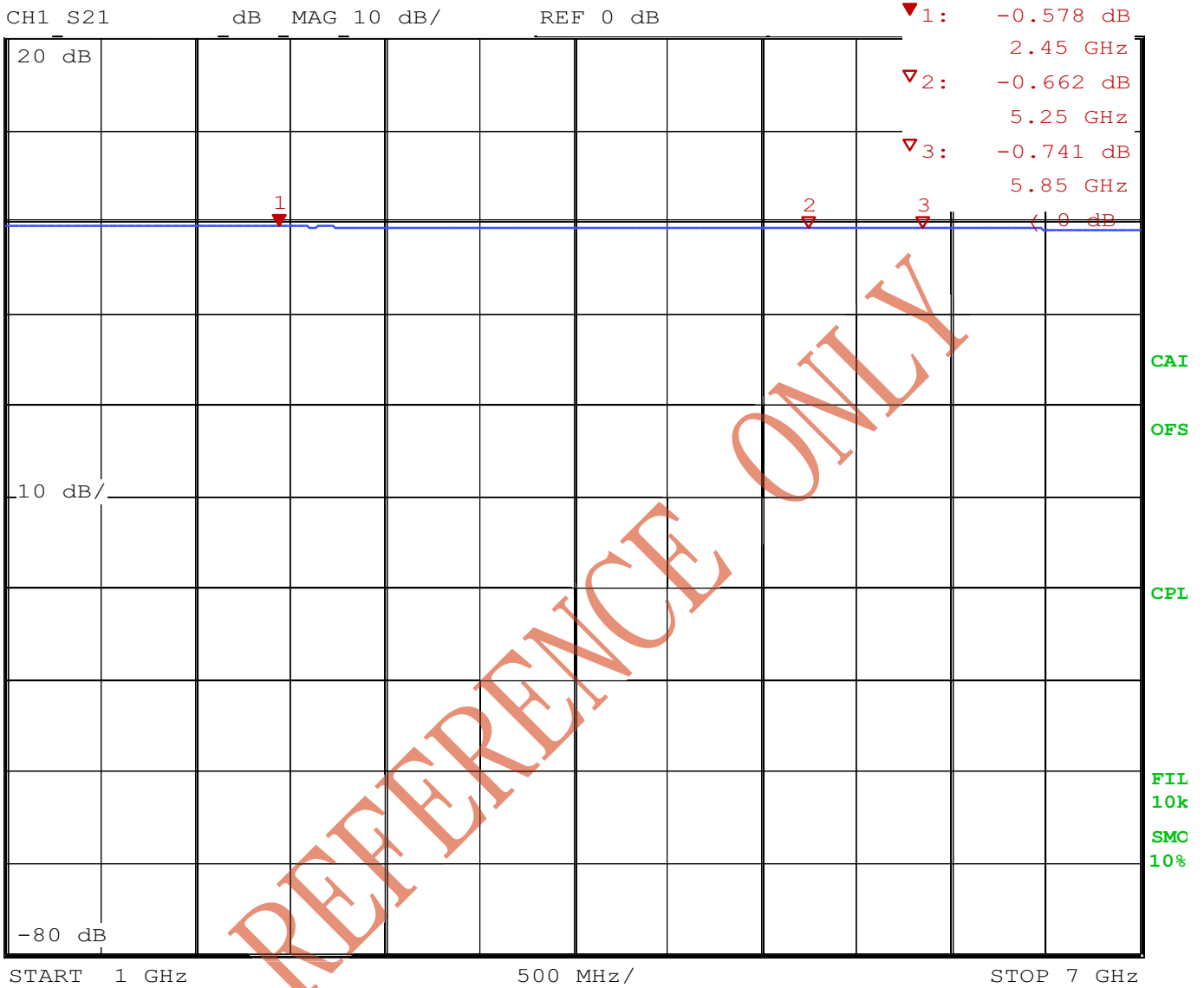


Electrical Characteristic
V.S.W.R



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

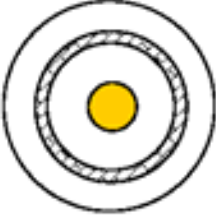
TEL : (02)22988033
FAX : (02)22988031-2

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

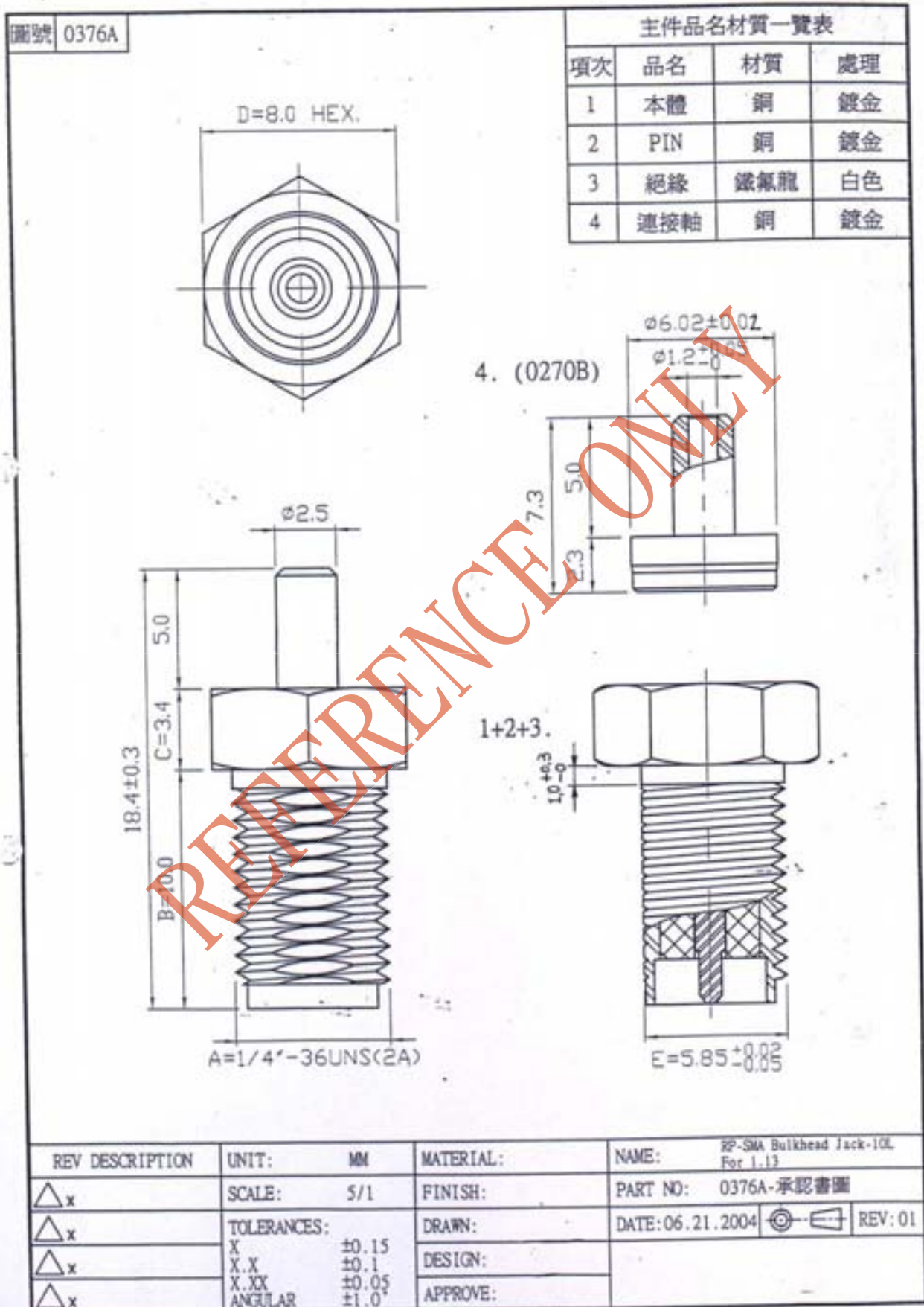
MAKER : C.Y.CHEN

CONFIRM : S.N.WONG

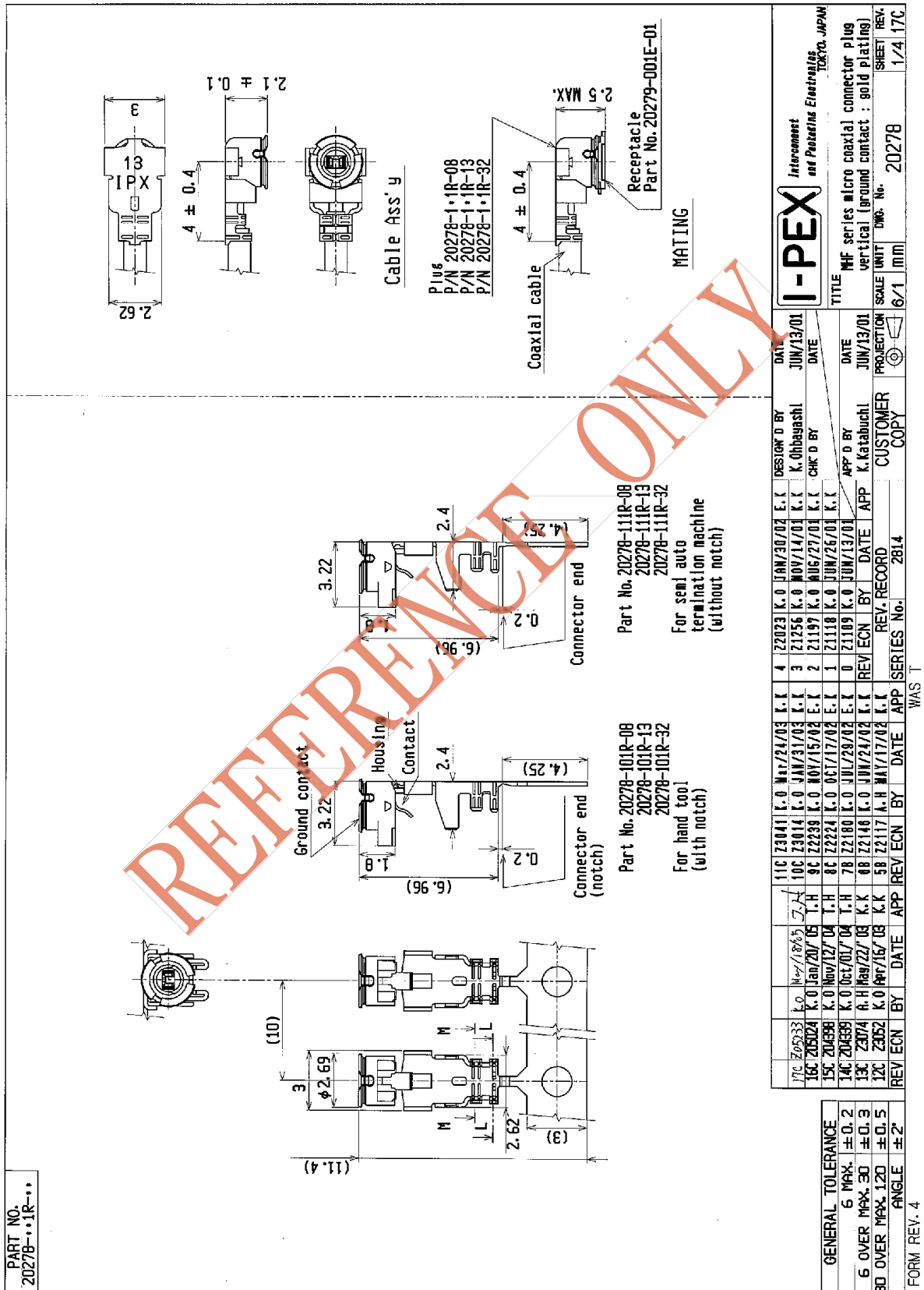
APPROVAL : W.J.WANG

Material Data Sheet

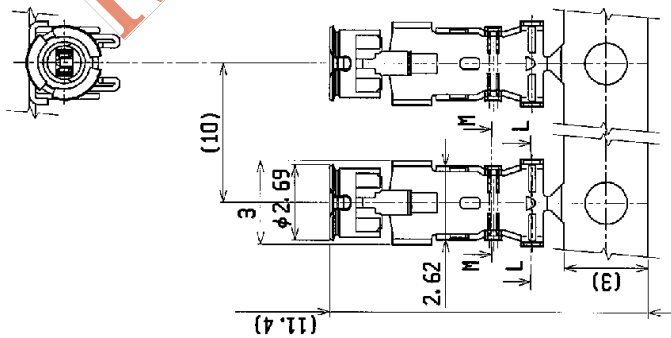
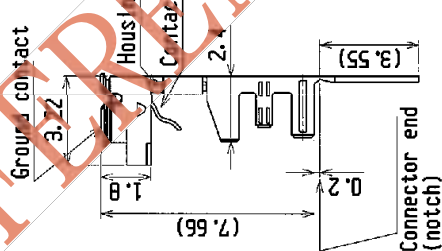
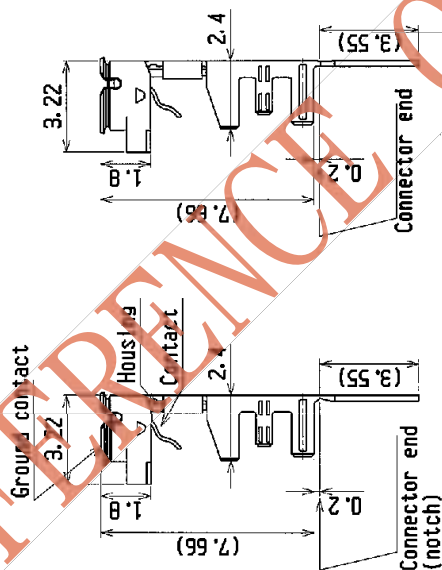
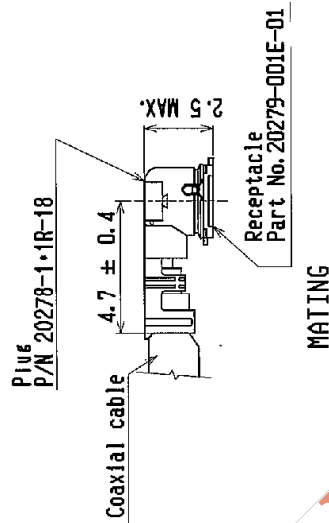
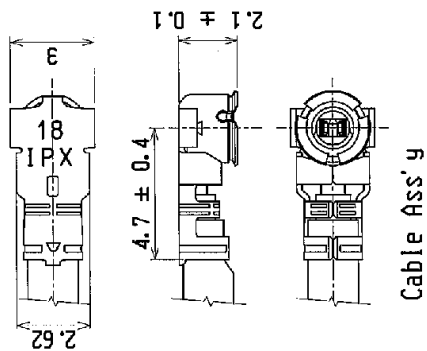
RP-SMA Bulkhead Jack



MHF Connector



PART NO.
20278-...1R-...



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

I-PEX Interconnect and Potassium Electroplating TOKYO, JAPAN		DESIGN'D BY	DATE	
		CHK'D BY	DATE	
REV	ECN	BY	DATE	APP
REV. RECORD		CUSTOMER COPY		
SERIES No.		2814		
TITLE		MHF series micro coaxial connector plug vertical (ground contact : gold plating)		
SCALE		UNIT		
PROJECTION		8/1		
DWG. No.		20278		
SHEET REV.		2/4 17C		

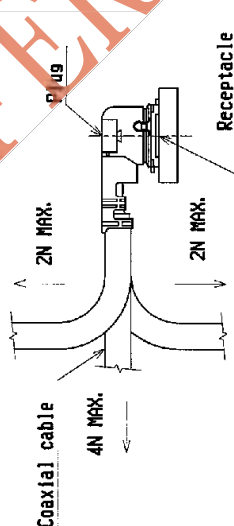
WAS T

FORM REV. 4

5-2 コネクタ除去時

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

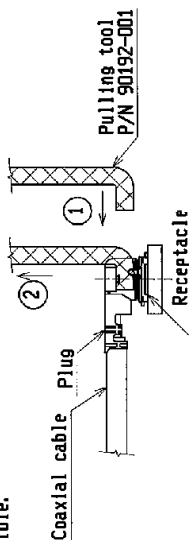
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5-1 Mating. Please mate the connector straightly to vertical direction as much as possible, adjusting the mating axis of plug and receptacle. As excessive slant angle mating may break the connector, please don't do it.

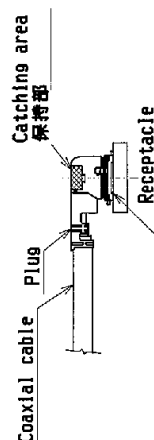
5-1 コネクタ挿入時
PlugとReceptacleの向き合準を合わせ、
できるだけ垂直に挿入して下さい。
適切な斜め挿入は行わないで下さい。
コネクタ破損の原因となりますので、
再挿は行わないで下さい。

(1) In case of unmatting by pulling tool.
Please use the pulling tool as the following drawing and please pull plug to vertical direction as di-
as possible.



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

2) 手で直接引き抜く場合
下図の保持部をつかみ、できる
だけ垂直に引き抜いて下さい。



5-3 Crimp over standards of
outer conductor

外部導体はみ出し量規定
: 外部導体トータル本数
の10%以下
(外部導体パレルの外に
はみ出した量)

5-4 熱収縮チューブについて

5-4 Caution about Heat shrinkage tubes

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

5. This is 'Ph-type' connector.

6. 本コネクタは、Pb-free。
である。

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

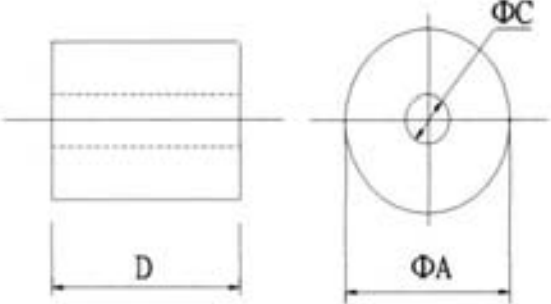
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FORM REV-4

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
						+ —	mm
				(2) ELECTRICAL REQUIREMENTS:			
		TEST FREQ					
		TEST FREQ					
Z	35 — 0	Ω	TEST FREQ	25 MHz			
Z	60 — 0	Ω	TEST FREQ	100 MHz			
		TEST FREQ					
COIL DATA	Q ₀ = L ₀ =	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.	
						WC-RH-039	
DATE		DATE		DATE			

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 I TS																		
COIL DATA	QO=	CO=	(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:																			
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Inspected	Checked	Approved																	

CORE-TECH CORPORATION

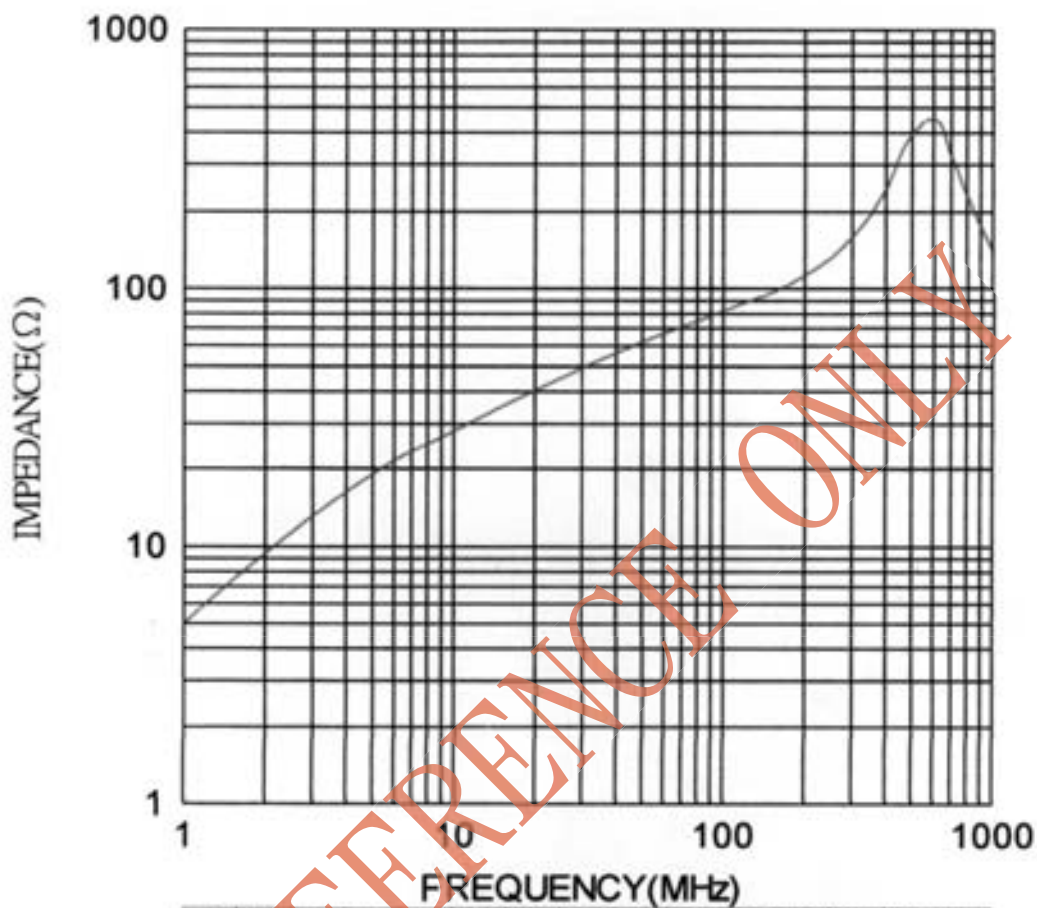
TEL:03-4861211
FAX:03-4861210

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