APPROVAL SHEET

For：藍 天 電 腦 股 份 有 限 公 司

CLEVO Computer Company

MODEL ： M720S-L Bluetooth Antenna

DESCRIPTION： ANTENNA BLUETOOTH 2.4G/5G PIFA BT (灰色) 精乘 M720S(無鉛)

wgt P/N： SK720BLPI01+B

CUSTOMER P/N ： 6-23-7M72S-020

DATE ： 18 MAY.,2007

Manager	Chief	Engineer
Johnson	Joy	Rick

Check	**Responser**

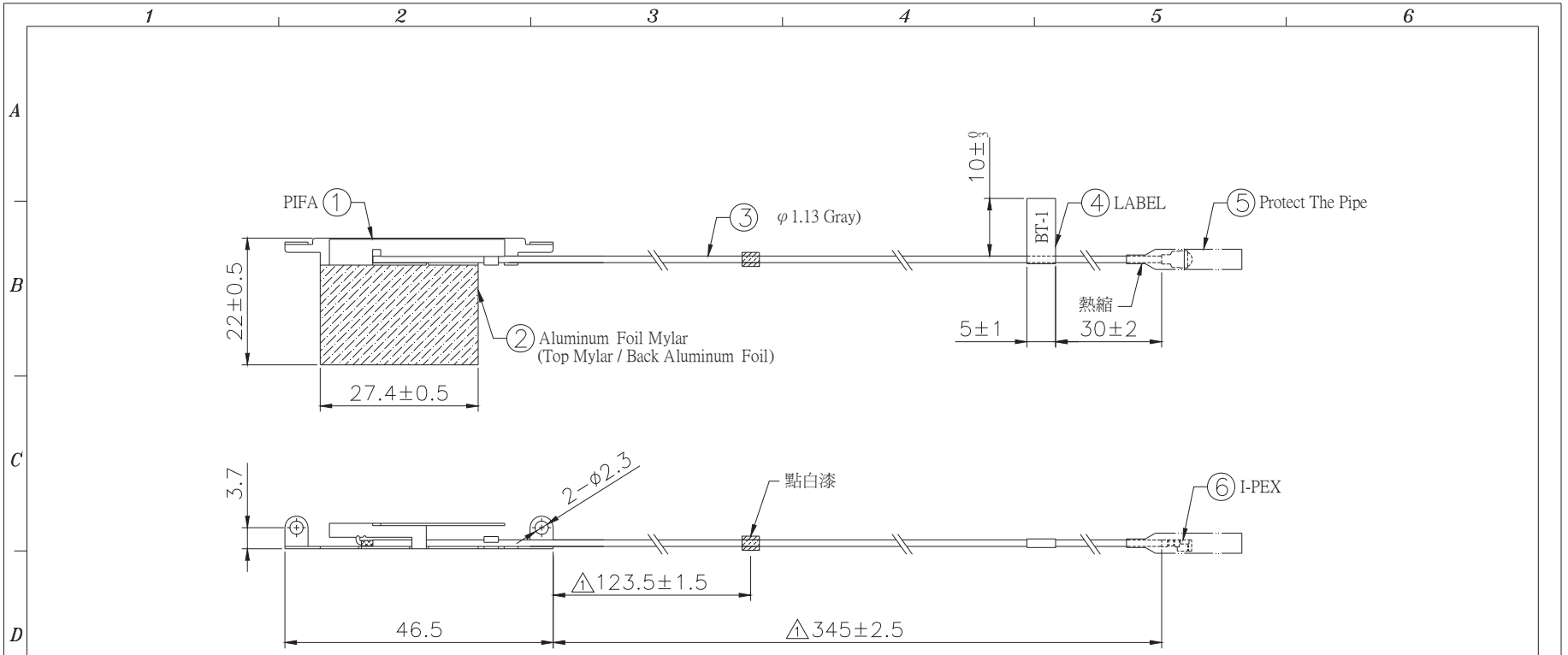
精乘科技股份有限公司

Well Green Technology Co., Ltd.

桃園縣平鎮市民族路雙連二段 118 巷 51 弄 20 號

No. 20, Alley51 ,Lane 118,ShuangLian Sec.2,Mintzu Rd.,
PingJen City, TaoYuan Hsien, Taiwan, R.O.C
TEL: +886-3-420-6428 ; FAX: +886-3-420-6418

一、成品圖



No.	Description	Specification	Qty	Notes
6	CONNECT	I-PEX 20278-101R-13/20278-111R-13	1	
5	Protect The Pipe	φ2.5×L20mm	1	Equivalent
4	LABEL	21×5mm NO:BT-1	1	
3	MHF PLUG OD	φ 1.13 TS Gray	1	Equivalent
2	ALUMINUM FOIL MYLAR	L27.4×W22×T0.03mm	1	
1	PIFA	SPTE t=0.4mm	1	

Item	Description	Date
△1	變更出線長&白漆記號	kaien Apr/24/07
△2		
△3		
△4		
△5		

TOLERANCE			
LEVER	A±	B±	C±
0-6	0.05	0.10	0.20
6-30	0.07	0.20	0.50
30-100	0.10	0.30	0.80
100-300	0.20	0.50	1.20
300-	0.30	0.80	2.00

DATE Jan/31/07
QUANTITY 1 PCS/SET
SCALE 1:1
UNIT MM

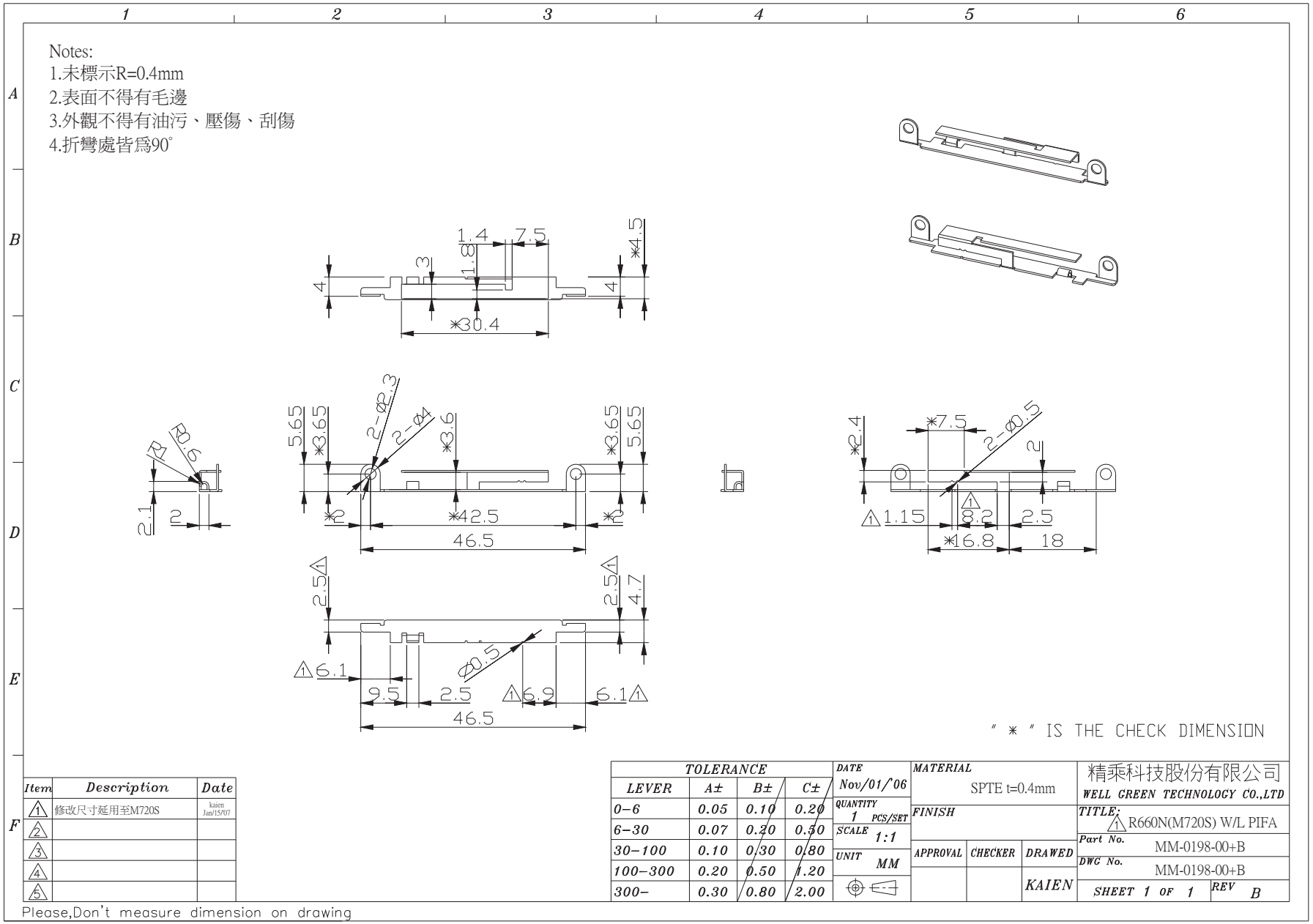
MATERIAL
FINISH

APPROVAL	CHECKER	DRAWED
		KAIEN

精乘科技股份有限公司
WELL GREEN TECHNOLOGY CO.,LTD
TITLE: M720S B/T ANTENNA
Part No. SK720BLPI01+B
DWG No. 720-BLU-ASK01+B
SHEET 1 OF 1
REV B

Please,Don't measure dimension on drawing

二、零件圖



Item	Description	Date
1	修改尺寸延用至M720S	kaien Jan/15/07
2		
3		
4		
5		

TOLERANCE			
LEVER	A±	B±	C±
0-6	0.05	0.10	0.20
6-30	0.07	0.20	0.50
30-100	0.10	0.30	0.80
100-300	0.20	0.50	1.20
300-	0.30	0.80	2.00

DATE: Nov/01/'06
QUANTITY: 1 PCS/SET
SCALE: 1:1
UNIT: MM

MATERIAL: SPTE t=0.4mm
FINISH:

APPROVAL	CHECKER	DRAWED
		KAIEN

精乘科技股份有限公司
WELL GREEN TECHNOLOGY CO.,LTD

TITLE: 1 R660N(M720S) W/L PIFA
Part No. MM-0198-00+B
DWG No. MM-0198-00+B
SHEET 1 OF 1 REV B

Please,Don't measure dimension on drawing

三、BOM

B O M

ITEM	DESCRIPTION	SPECIFICATION	Q'TY	VENDER	P/N
1	PIFA ANTENNA	M720S RL PIFA	1		MM-0198-00+B
2	COAXIAL CABLE	素材AXON TS φ1.13*384mm(Gary)	1		CA-0072-22+B
3	CONNECTOR	I-PEX Connector	1		CN-0032-00-A
4	Label	L21*W5*T0.08 mm(BT-1)	1		LA-0023-05+A
5	鋁箔MYLAR	L27.4*W22*T0.03 mm	1		GT-0192-00+A
6	塑膠保護套	φ 2.5* 25mm (透明)	1		TB-2503-03-A
7					
8					
9					
10					
11					
12					
13					
14					
15					

Item	Description	Date
6	變更出線長&白漆記號	kaien Apr/24/07
7		
3		
4		
5		

TOLERANCE			
LEVER	A±	B±	C±
0-6	0.05	0.10	0.20
6-30	0.07	0.20	0.50
30-100	0.10	0.30	0.80
100-300	0.20	0.50	1.20
300-	0.30	0.80	2.00

DATE 96/02/01
QUANTITY 1 PCS/SET
SCALE 1:1
UNIT MM

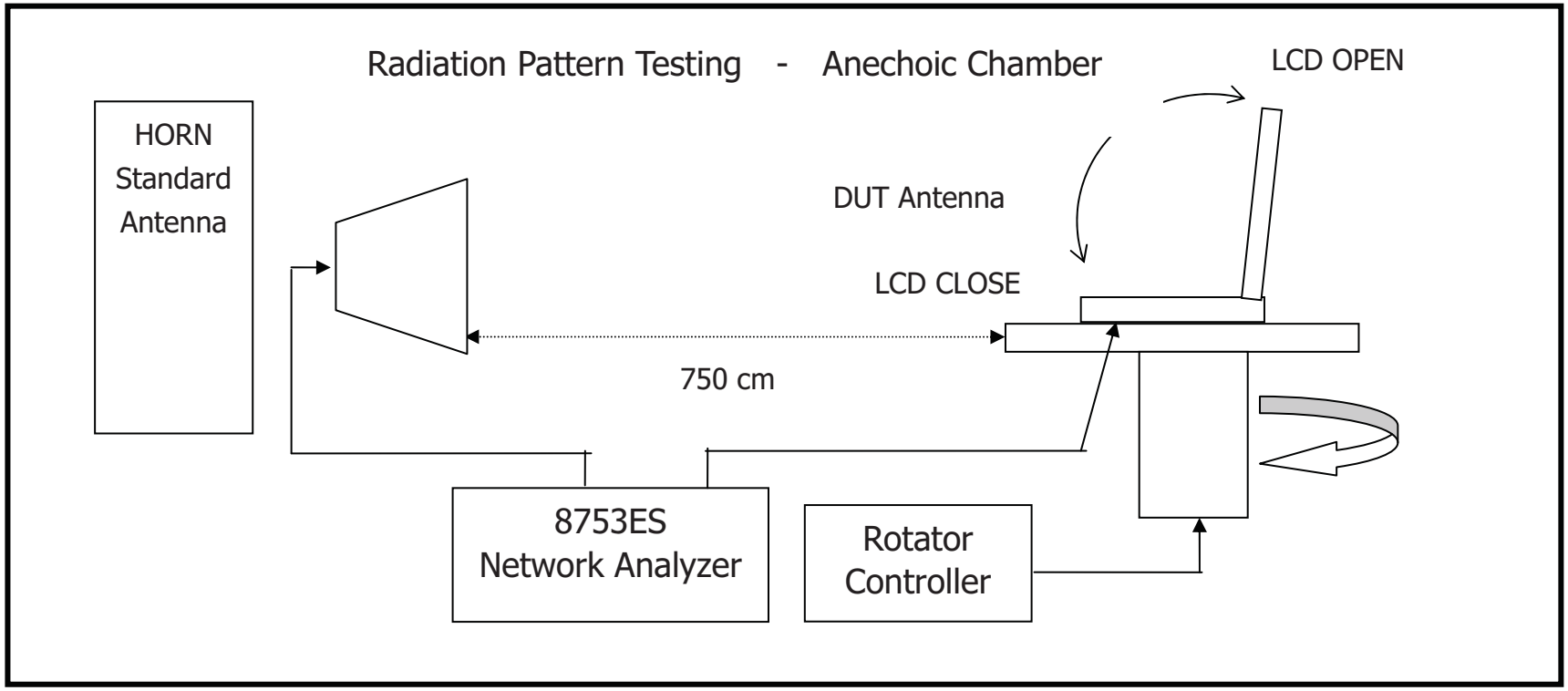
MATERIAL
FINISH
APPROVAL | CHECKER | DRAWED: JASON

精乘科技股份有限公司
WELL GREEN TECHNOLOGY CO.,LTD
TITLE: M720S B/T Antenna
Part No. SK720BLPI01+B
DWG No. 720-BLU-BSK01+B
SHEET 1 OF 1 REV B

Well Green Technology Co., Ltd
No. 20, Alley51 ,Lane 118,ShuangLian Sec.2,Mintzu Rd.,
PingJen City, TaoYuan Hsien, Taiwan, R.O.C
TEL: (03)420-6428 FAX: (03) 420-6418

I 、Antenna Testing Conditions:

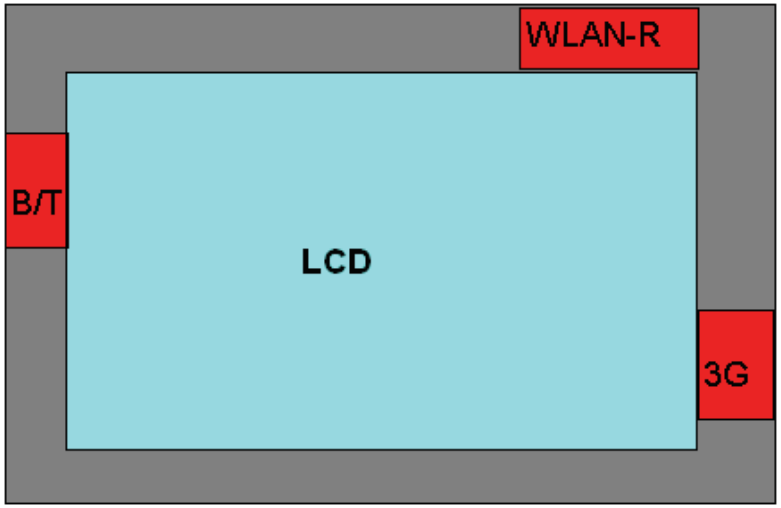
1. Testing set up:



Well Green Technology Co., Ltd
No. 20, Alley51 ,Lane 118,ShuangLian Sec.2,Mintzu Rd.,
PingJen City, TaoYuan Hsien, Taiwan, R.O.C
TEL: (03)420-6428 FAX: (03) 420-6418

2. Mechanical dimensions

Antenna M720S PIFA
Cable ϕ1.13
Bluetooth
Left side



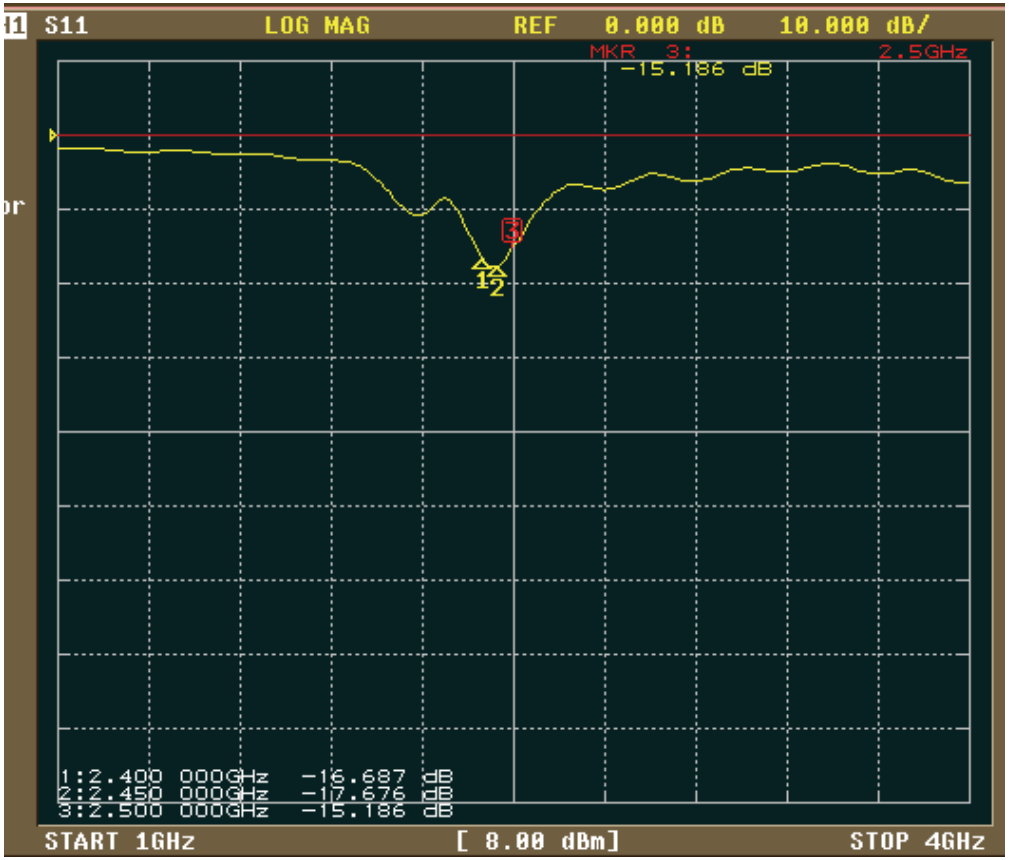
Well Green Technology Co., Ltd
No. 20, Alley51 ,Lane 118,ShuangLian Sec.2,Mintzu Rd.,
PingJen City, TaoYuan Hsien, Taiwan, R.O.C
TEL: (03)420-6428 FAX: (03) 420-6418

Ⅱ. Test results

Antenna	Application	Placement	Cable dia. Φ mm
M720S	Bluetooth	Left side	1.13

1. *Return Loss*

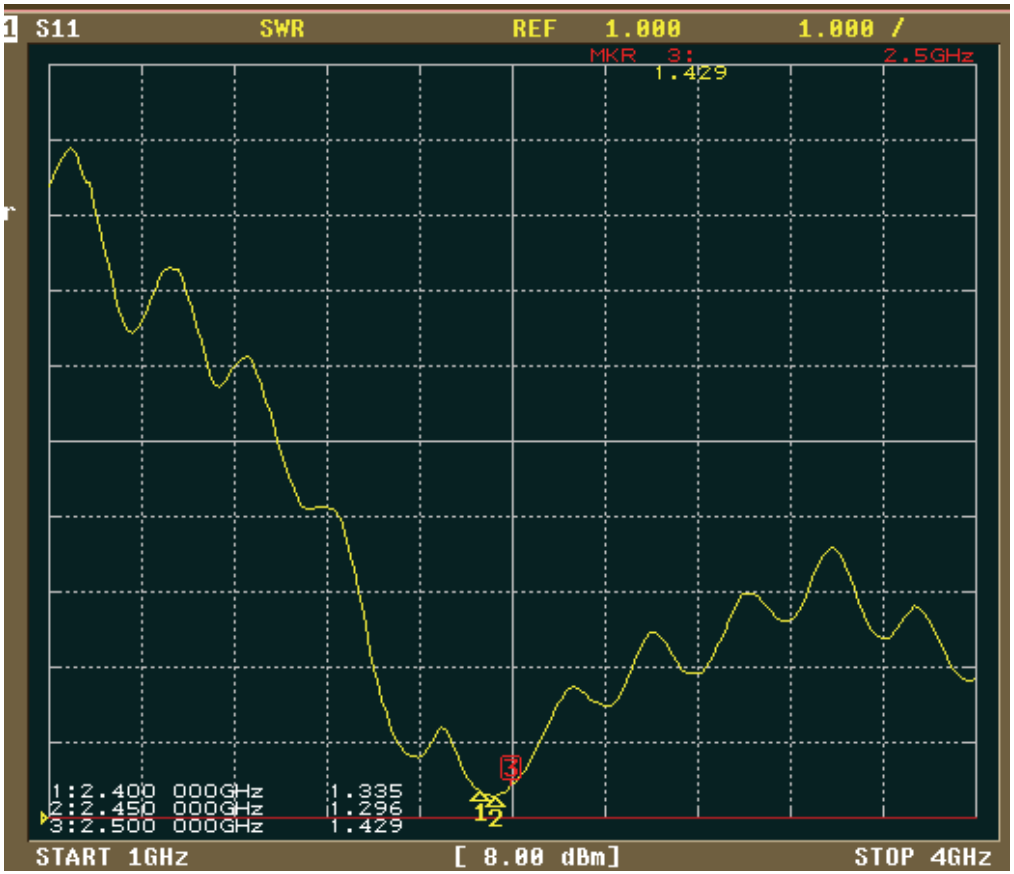
Antenna	Center freg. @MHz	BW @MHz	Return Loss		
			2.4GHz	2.45GHz	2.5GHz
M720S	2450		-16.68	-17.67	-15.18



Well Green Technology Co., Ltd
No. 20, Alley51 ,Lane 118,ShuangLian Sec.2,Mintzu Rd.,
PingJen City, TaoYuan Hsien, Taiwan, R.O.C
TEL: (03)420-6428 FAX: (03) 420-6418

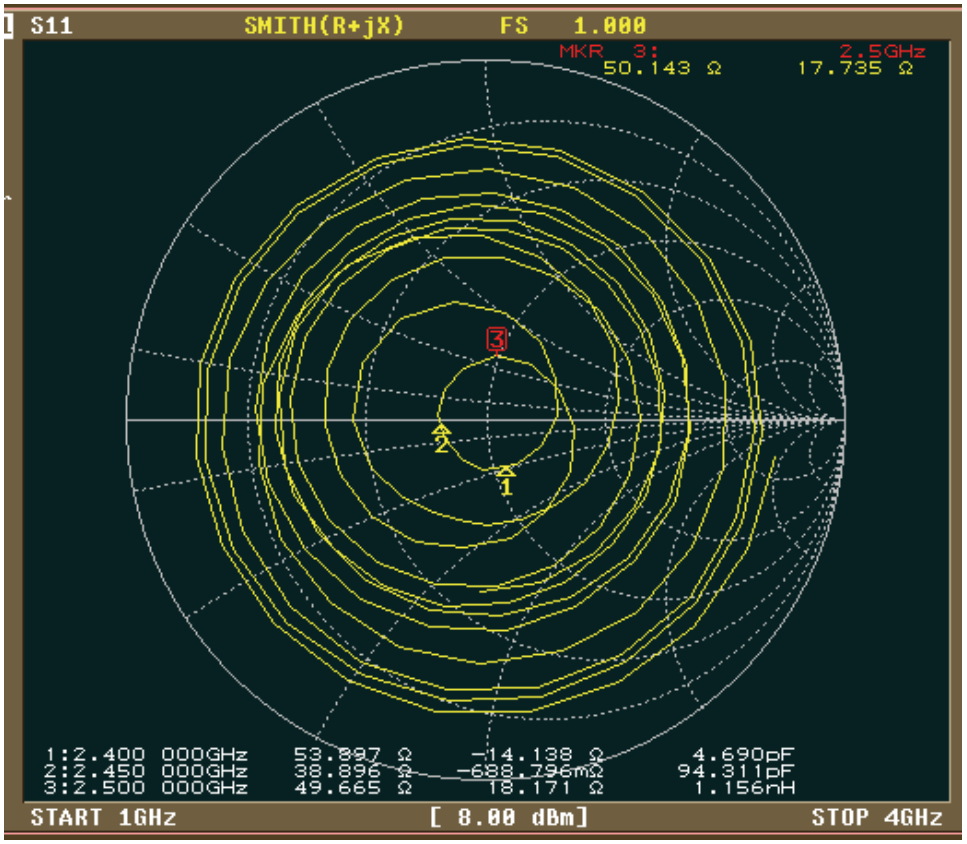
2. VSWR

Antenna	Center freg. @MHz	BW @MHz	VSWR		
			2.4GHz	2.45GHz	2.5GHz
M720S	2450		1.33	1.29	1.42



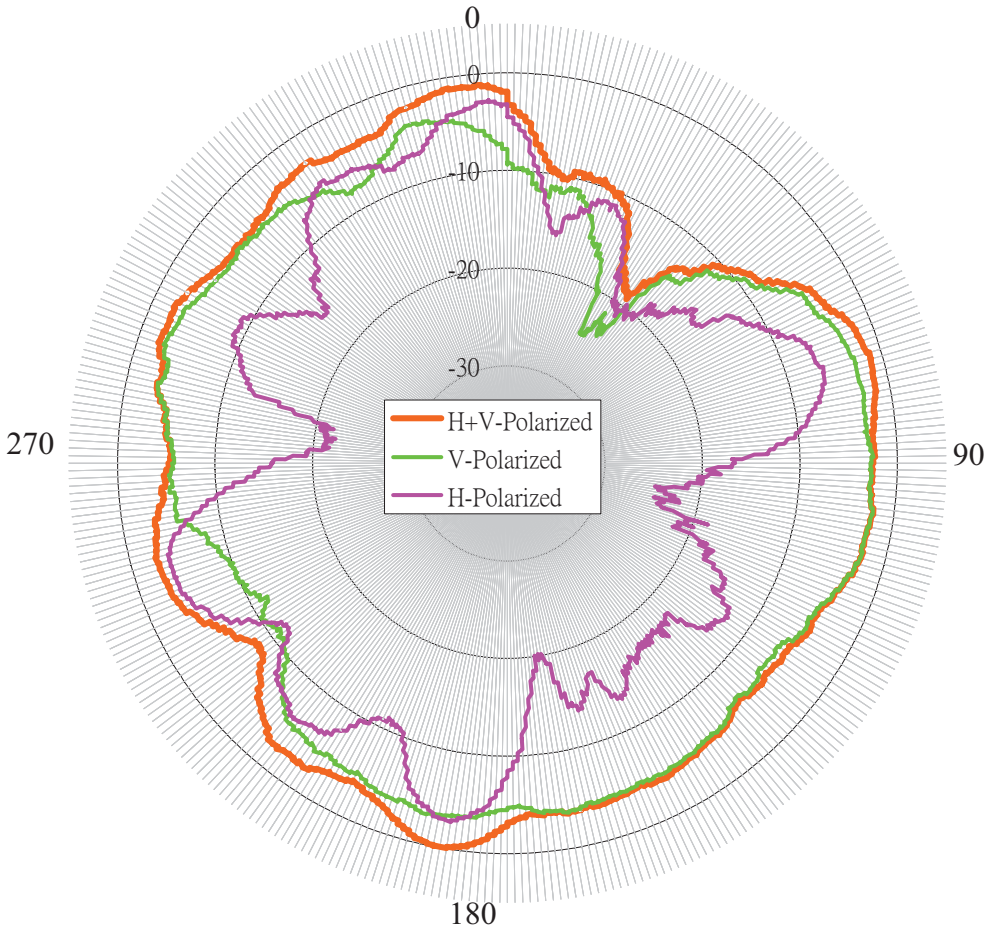
Well Green Technology Co., Ltd
No. 20, Alley51 ,Lane 118,ShuangLian Sec.2,Mintzu Rd.,
PingJen City, TaoYuan Hsien, Taiwan, R.O.C
TEL: (03)420-6428 FAX: (03) 420-6418

3. Smith Chart



Well Green Technology Co., Ltd
No. 20, Alley51 ,Lane 118,ShuangLian Sec.2,Mintzu Rd.,
PingJen City, TaoYuan Hsien, Taiwan, R.O.C
TEL: (03)420-6428 FAX: (03) 420-6418

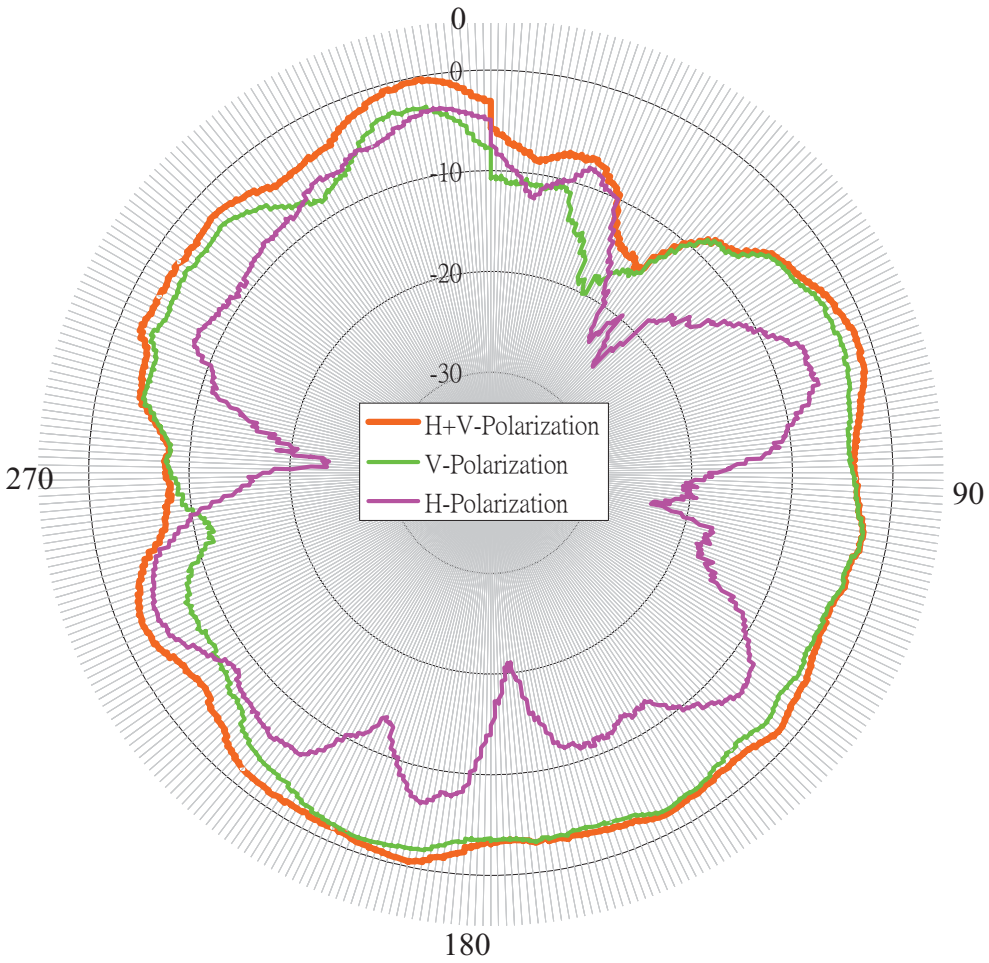
4. Radiation Pattern of **XY Plane(Azimuth)-(Open)**



Center Frequency	**2400 MHz**
Vertical peak Gain (dBi)	-2.20
Vertical Average Gain (dBi)	-5.41
Horizontal peak Gain (dBi)	-2.76
Horizontal Average Gain (dBi)	-9.03
Hori+Vert peak Gain (dBi)	-0.09
Hori+Vert Average Gain (dBi)	-3.84

Well Green Technology Co., Ltd
No. 20, Alley51 ,Lane 118,ShuangLian Sec.2,Mintzu Rd.,
PingJen City, TaoYuan Hsien, Taiwan, R.O.C
TEL: (03)420-6428 FAX: (03) 420-6418

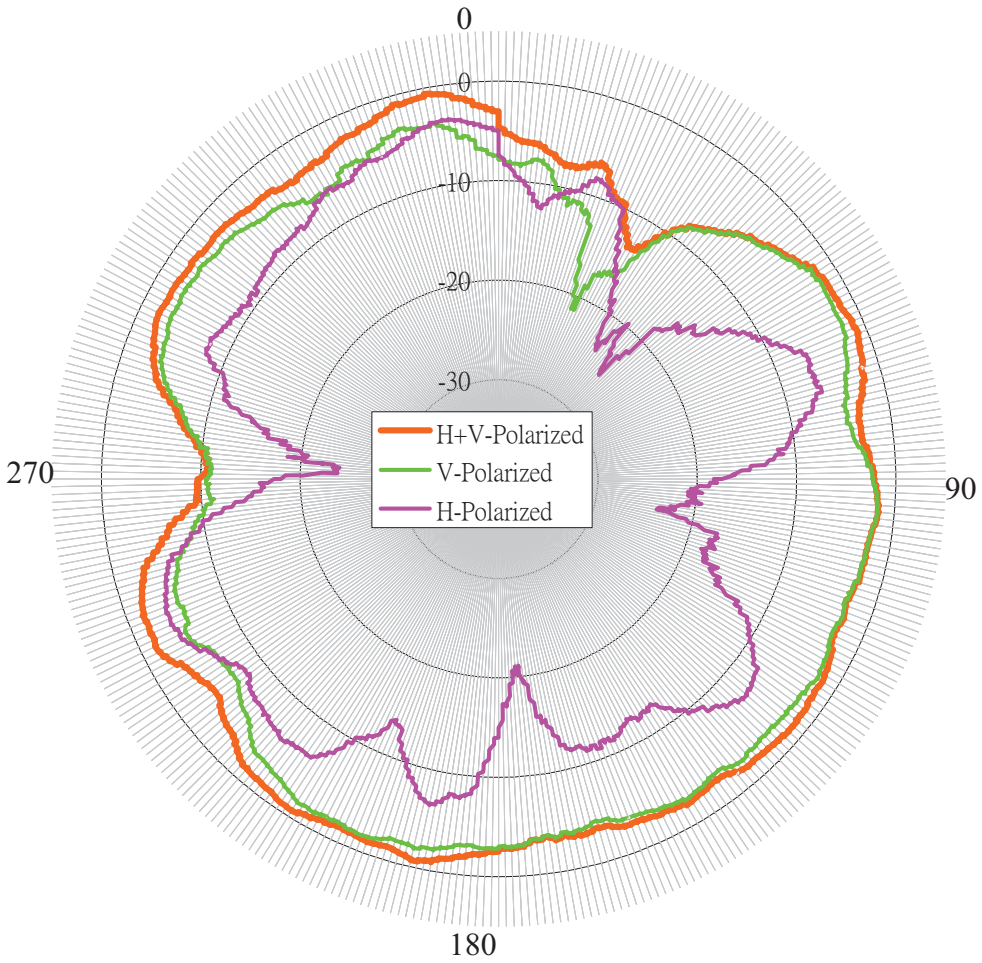
5. Radiation Pattern of **XY Plane(Azimuth)-(Open)**



Center Frequency	**2450 MHz**
Vertical peak Gain (dBi)	-1.41
Vertical Average Gain (dBi)	-4.62
Horizontal peak Gain (dBi)	-3.39
Horizontal Average Gain (dBi)	-8.83
Hori+Vert peak Gain (dBi)	-0.32
Hori+Vert Average Gain (dBi)	-3.23

Well Green Technology Co., Ltd
No. 20, Alley51 ,Lane 118,ShuangLian Sec.2,Mintzu Rd.,
PingJen City, TaoYuan Hsien, Taiwan, R.O.C
TEL: (03)420-6428 FAX: (03) 420-6418

6. Radiation Pattern of **XY Plane(Azimuth)-(Open)**



Center Frequency	**2500 MHz**
Vertical peak Gain (dBi)	-1.58
Vertical Average Gain (dBi)	-4.16
Horizontal peak Gain (dBi)	-3.44
Horizontal Average Gain (dBi)	-8.88
Hori+Vert peak Gain (dBi)	-0.60
Hori+Vert Average Gain (dBi)	-2.90

四、SPECIFICATIONS:

● Electrical Properties

Frequency Range	：2.4~2.5GHz
Impedance	：50Ohms nomimal
VSWR	：≦2.0
Peak Gain	: -5.0dBi ≦ peak gain≦ 3dBi
Standard Connector	:I-PEX Connector

Spec. No. 3831K-X

SPECIFICATION

FOR

FEP INSULATE HIGH-FREQUENCY COAXIAL CABLE FWS 5030 UL 1979

ISSUED Oct. 17, 2003

REVISED Aug. 29, 2005

MADE BY T. Seki

APPROVALS Y. YASUKAWA

KURABE INDUSTRIAL CO., LTD

KURABE INDUSTRIAL CO., LTD

SP3831K-X	FEP INSULATED HIGH-FREQUENCY COAXIAL CABLE (FWS 5030) UL 1979	PAGE	1/4
PRODUCT STANDARD			

1. SCOPE

This standard covers "FEP insulated High-Frequency coaxial cable".

These cable are approved by UL as Style 1979 AWM (File E46702 or E246998)

[UL1979:105℃、30V]

Use: Internal wiring of Class 2 Circuits of Electronic Equipment.

2. CONSTRUCTION

Construction and dimensions of the cable are shown in Figure.1 and Table 1.

3. PERFORMANCE

Performance of the finished cable is shown in Table 2. The test methods are in accordance with applicable test methods described in UL 758.

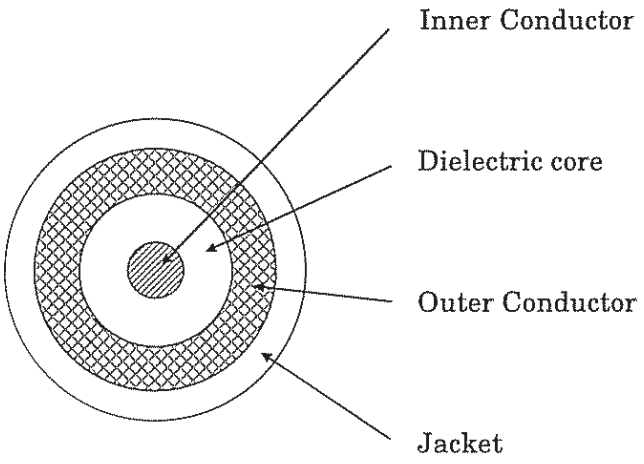


Figure 1.

SP3831K-X	FEP INSULATED HIGH-FREQUENCY COAXIAL CABLE (FWS 5030) UL 1979	PAGE	2/4
PRODUCT STANDARD			

Table 1. Construction

Item		Unit	Specified Value
Inner Conductor	Material	—	Silver coated annealed copper wire
	Stranding	No./mm	7/0.08
	Dia.(approx.)		0.24
Dielectric Core	Material	—	FEP
	Thick.(nom.)	mm	0.22
	Dia.	mm	0.68±0.05
	Color	—	Natural
Outer Conductor	Material	—	Tinned annealed copper wire
	Type	—	Braid (16/4/0.05)
	Dia.(approx)	mm	0.93
Jacket	Material	—	FEP
	Thick.(nom.)	mm	0.10
	Dia.	mm	1.13 +0.10/-0.06
	Color	—	Standard colors are white,black,brown,and gray.

Table 2. Performance

Item	Unit	Specified Value	Note
Appearance	—	Faultless in visible	—
Inner conductor resistance	Ω/km	Max.597	at 20℃
Insulation resistance	MΩ·km	Min.1500	at 20℃
Dielectric strength	—	Dielectric core: No breakdown at AC1.5kV for 0.15sec.	Spark test
		Jacket: No breakdown at AC1.5kV for 0.15sec.	Spark test
		No breakdown at AC500V for 1min.	Outer conductor to inner conductor
Heat resistance for solder	—	Shrink or expansion of dielectric core are not more than 0.5mm	※
Capacitance	pF/m	nom. 98	at 1kHz
Characteristic impedance	Ω	50±2	TDR method
Attenuation (nom.)	dB/m	2.0	1.0GHz
		2.9	2.0GHz
		3.2	2.4GHz
		3.7	3.0GHz
		4.3	4.0GHz
		4.8	5.0GHz
		5.3	6.0GHz

※ After immersion of dielectric core, 10mm into soldering pot which is 255℃±5℃ for 5 seconds, shrinkage or expansion of the dielectric core must not exceed 0.5mm.

SP3831K-X	FEP INSULATED HIGH-FREQUENCY COAXIAL CABLE (FWS 5030) UL 1979	PAGE	3/4
PRODUCT STANDARD			

4. INSPECTION

An inspection is took place in accordance with applicable test methods. The cable has to pass the specifications described Table 1 and Table 2.

5. TEST METHOD

The test methods are in accordance with applicable test methods described in UL 758. (Test methods for rubber or plastic insulated wires and cables).

6. TEMPERATURE RATING

105 ℃

7. VOLATGE RATING

30 V

8. MARKING ON TAG

Each reel of finished cable is tagged to indicate following information:

(1) Designation of the cable (Style No. designation),,
(2) Maximum working voltage,
(3) Maximum working temperature,
(4) Conductor size,
(5) Nominal insulation thickness,
(6) Length,
(7) Date of manufacture or LOT No.,
(8) Manufacture's name,
(9) Specification No.,and
(10) Use of cable, and

※ Please refer to UL file No. to know the production factory of the cable.

KURABE HAMAKITA FACTORY (JAPAN)	E46702-H
KURABE INDUSTRIAL (VIETNAM) Co.,LTD	E46702-V
KURABE INDUSTRIAL (SHANGHAI) Co.,LTD	E46702-C or E246998

9. PACKAGE

The finished cables are cut into a shipping length of 200 meters, coiled or reeled and packed securely to prevent injuries during transportation.

Note: Odd length of the finished wires, which are not shorter than 20 meters may be accepted for shipping.

SP3831K-X	FEP INSULATED HIGH-FREQUENCY COAXIAL CABLE (FWS 5030) UL 1979	PAGE	4/4
PRODUCT STANDARD			

10. APPLICATION NOTES

10-1. For use other than the use mutually agreed, compatibility should be carefully confirmed in each practical use by user.

10-2. It is recommended to make a trial run for each practical application.

10-3. In case a design for use of cable is changed, please contact our sales department, if necessary. Do not use under extreme mechanical stress such as hard bending, tightening, and twisting. The use under extreme mechanical stress may cause not only shortening the life span of cable but also troubles such as decline of dielectric strength.

10-4. Handling precautions

①Do not hurt the insulation and sheath of the cable by making holes and scratches. And avoid any sharp edge when wiring so as not to injure cables.

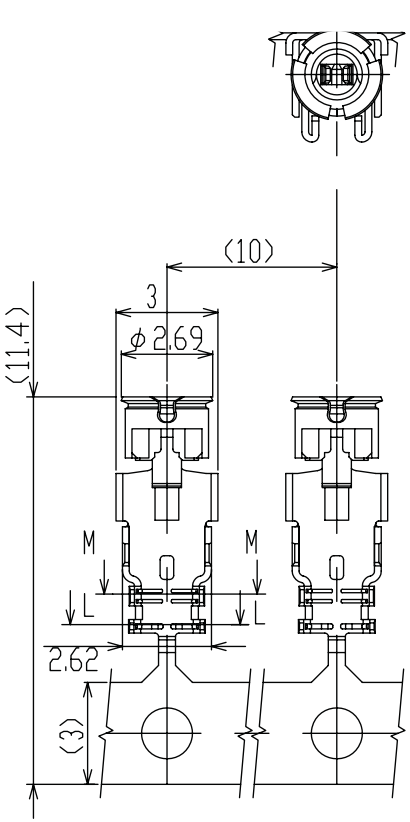
②Avoid unnecessary excessive force to cable, such as pulling, twisting, bending or tightening.

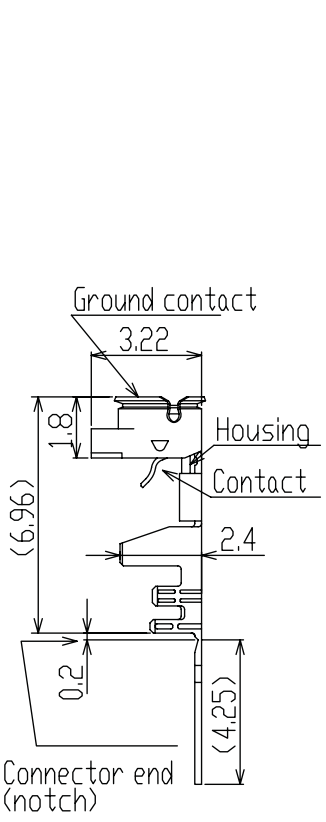
10-5. Storage precautions

Avoid continuous exposure to sunlight.

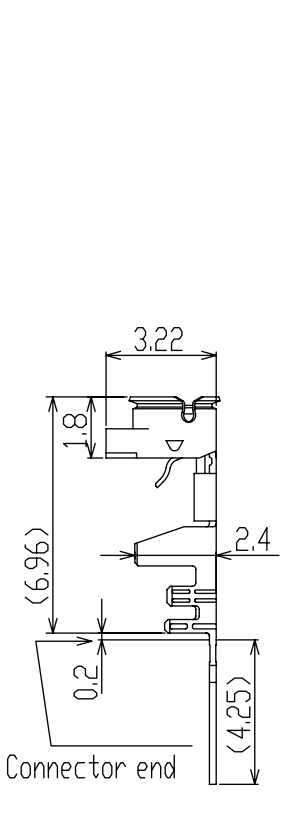
PART NO.
20278-**1R-**

I-PEX CONNECTOR

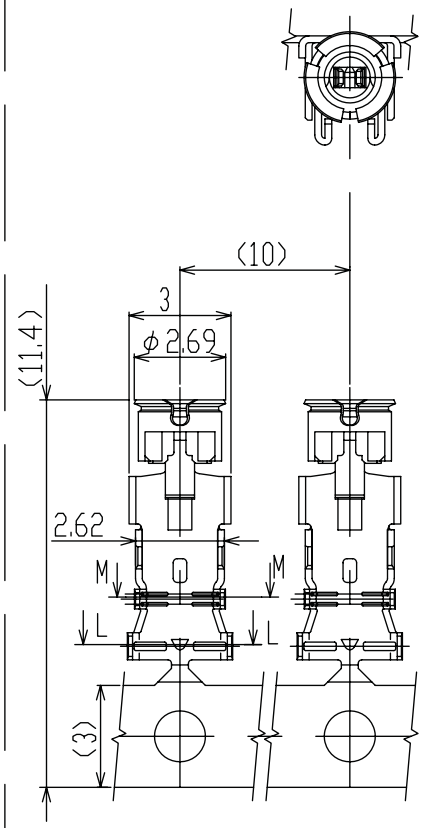


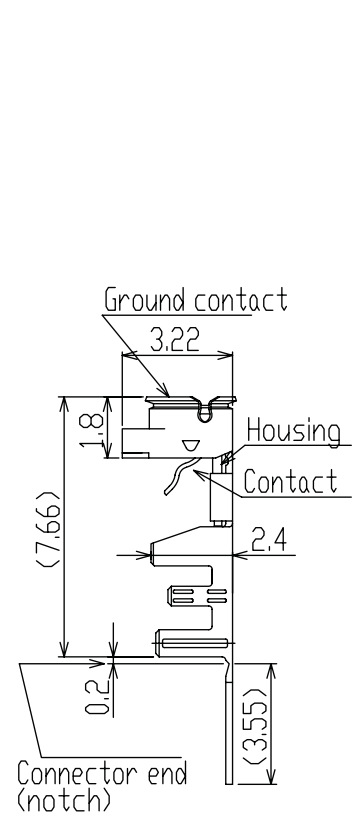


Part No.20278-101R-08
20278-101R-13
20278-101R-32
For hand tool
(with notch)

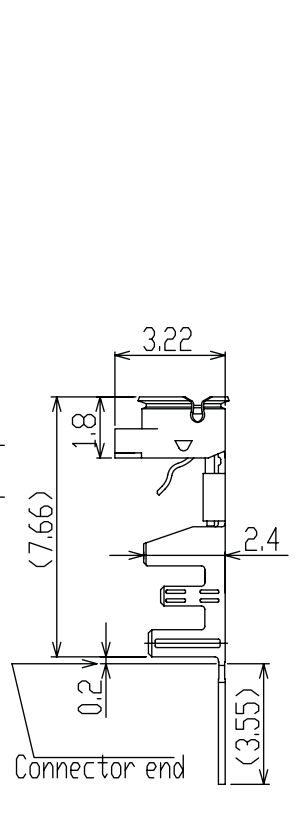


Part No.20278-111R-08
20278-111R-13
20278-111R-32
For semi auto
termination machine
(without notch)





Part No.20278-101R-18
For hand tool
(with notch)



Part No.20278-111R-18
For semi auto
termination machine
(without notch)

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

REV	ECN	BY	DATE	APP
12C	Z3052	K.O	Apr/16/'03	K.K
11C	Z3041	K.O	Mar/24/03	K.K
10C	Z3014	K.O	JAN/31/03	K.K
9C	Z2239	K.O	NOV/15/02	E.K
8C	Z2224	K.O	OCT/17/02	E.K
7B	Z2180	K.O	JUL/29/02	E.K
6B	Z2146	K.O	JUN/24/02	K.K
5B	Z2117	A.H	MAY/17/02	K.K
4	Z2023	K.O	JAN/30/02	E.K
3	Z1256	K.O	NOV/14/01	K.K
2	Z1197	K.O	AUG/27/01	K.K
1	Z1118	K.O	JUN/26/01	K.K
0	Z1109	K.O	JUN/13/01	

REV.RECORD
SERIES No. 2814

DESIGN'D BY	DATE
K.Ohbayashi	JUN/13/01
CHK'D BY	DATE
APP'D BY	DATE
K.Katabuchi	JUN/13/01

CUSTOMER COPY

PROJECTION

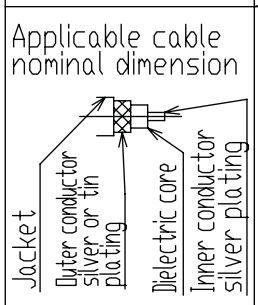
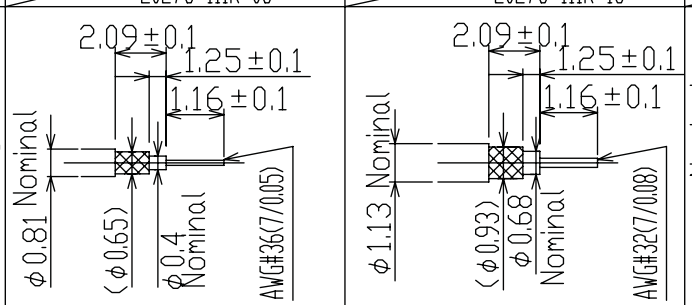
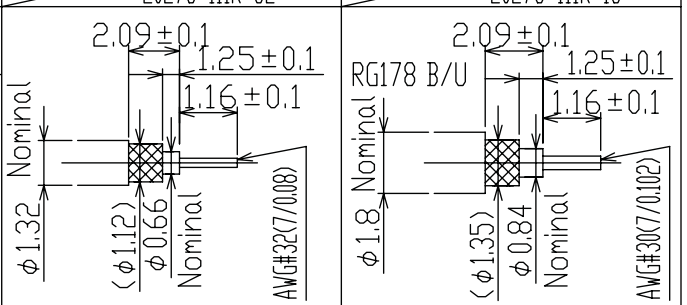
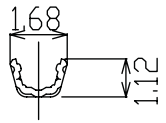
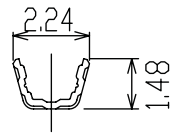
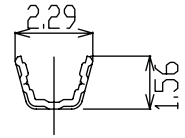
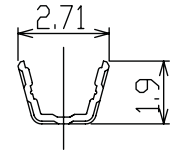
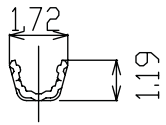
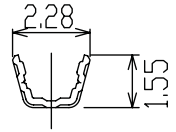
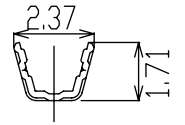
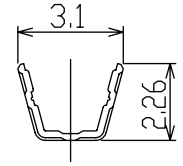
I-PEX Interconnect and Packaging Electronics TOKYO,JAPAN

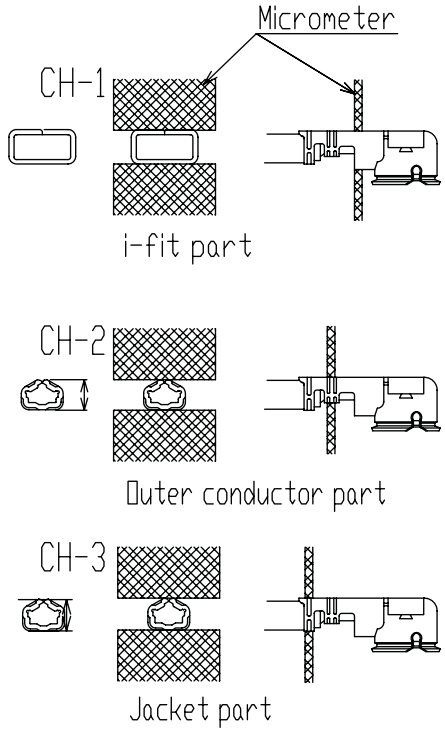
TITLE: MHF series micro coaxial connector plug vertical (ground contact : gold plating)

SCALE	UNIT	DWG. No.	SHEET	REV.
6/1	mm	20278	1/3	12C

FORM REV.4

WAS T

Part No.	20278-101R-08 / 20278-111R-08	20278-101R-13 / 20278-111R-13	20278-101R-32 / 20278-111R-32	20278-101R-18 / 20278-111R-18
Applicable cable nominal dimension					
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 / P/N of semi auto termination machine	90187-008C / 90213-008C	90187-013C / 90213-013C	90187-032C / 90213-032C	90233-018 / 90232-018
Sect. M-M				
Sect. L-L				
Crimp Height CH-1	1.34~1.40	1.34~1.40	1.34~1.40	1.34~1.40
Crimp Height CH-2	0.76~0.84	1.06~1.14	1.20~1.30	1.41~1.49
Crimp Height CH-3	0.85~0.97	1.15~1.35	1.26~1.46	1.70~1.80



Crimp Height

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

REV	ECN	BY	DATE	APP

REV.RECORD
SERIES No. 2814

DESIGN'D BY DATE
CHK'D BY DATE
APP'D BY DATE
CUSTOMER COPY
PROJECTION

I-PEX Interconnect and Packaging Electronics TOKYO, JAPAN

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

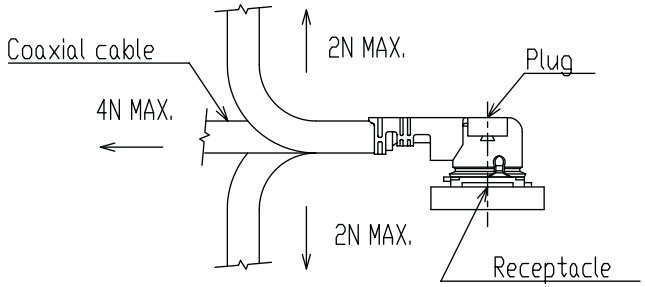
SCALE	UNIT	DWG. No.	SHEET	REV.
-/-	mm	20278	2/3	12C

FORM REV.4

WAS T

Notes

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



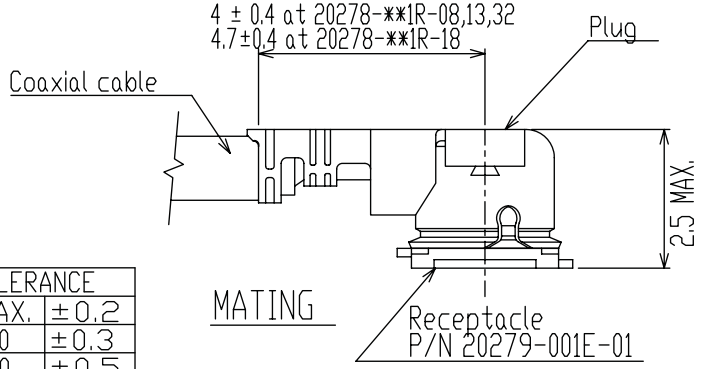
5. Suggestions for mating & unmating operation.

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.

1．材 料
(1) ハウジング：PBT，UL94V-0，黒色
(2) コンタクト
りん青銅
金メッキ0．1μm MIN．
下地 ニッケル1．27μm MIN．
(3) グランドコンタクト
りん青銅
金メッキ0．05μm MIN．
下地 ニッケル1．27μm MIN．
2．梱包 ： リール
3．かん合相手 part No．
：20279-001E-01
4．コネクタかん合後のケーブルに対する荷重

5． コネクタかん合時および抜去時の注意

5-1 コネクタ挿入時
PlugとReceptacleのかん合軸を合わせ、できるだけ垂直に挿入して下さい。
極端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、過度なこじり挿抜は行わないで下さい。

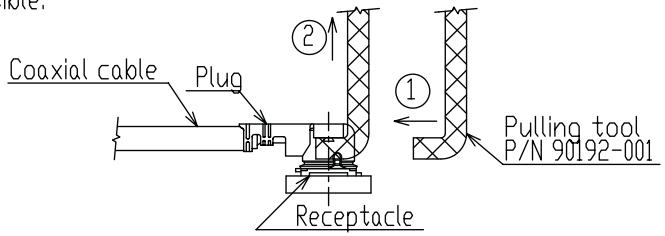


5-2 Unmating.

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

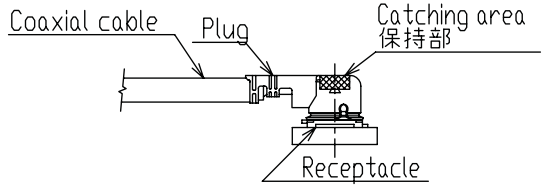
5-2 コネクタ抜去時

(1) 抜去ジグを用いる場合
下図のようにできるだけ垂直に引き抜いて下さい。



(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.

(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

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

5-3 外部導体はみ出し量

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
（外部導体バレルの外にはみ出した量）

5-4 Caution about Heat shrinkage tubes

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

5-4 熱収縮チューブについての注意
熱収縮チューブで外部導体を覆う場合は、導通不良の原因になりますので、熱によりハウジグを溶融させないよう注意してください。

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

REV	ECN	BY	DATE	APP

REV.RECORD
SERIES No. 2814

DESIGN'D BY DATE
CHK'D BY DATE
APP'D BY DATE

CUSTOMER COPY

PROJECTION

I-PEX Interconnect and Packaging Electronics TOKYO,JAPAN

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

SCALE	UNIT	DWG. No.	SHEET	REV.
-/-	mm	20278	3/3	12C

FORM REV.4

WAS T

No.2006-1
Sep/30 /'02

材料証明書
MATERIAL CERTIFICATE

当社製品には下記の材料が使われている事を証明致します。
WE HEREBY CERTIFY THAT THE FOLLOWING MATERIALS ARE USED IN OUR PRODUCT.

PRODUCT NAME： MHF series micro coaxial connector PLUG P/N 20278-**1R-**
20308-**1R-**

	部品 COMPONENT	材料／MATERIAL			UL94難燃性 UL94 FLAME CLASS	ULﾌｧｲﾙNo. UL FILE No.
		材質名 MATERIAL	型名 CAT No.	材料メーカ MANUFACTURER		
1	HOUSING	PBT	3116	WINTECH POLYMER LTD.	V－0	E 213445

PRODUCT NAME： MHF series micro coaxial connector RECEP. P/N 20279-001E-01

	部品 COMPONENT	材料／MATERIAL			UL94難燃性 UL94 FLAME CLASS	ULﾌｧｲﾙNo. UL FILE No.
		材質名 MATERIAL	型名 CAT No.	材料メーカ MANUFACTURER		
1	HOUSING	LCP	E130i	POLYPLASTICS CO.,LTD.	V－0	E 106764

PRODUCT NAME： MHF Ⅱ connector P/N 20311-**1R-08

	部品 COMPONENT	材料／MATERIAL			UL94難燃性 UL94 FLAME CLASS	ULﾌｧｲﾙNo. UL FILE No.
		材質名 MATERIAL	型名 CAT No.	材料メーカ MANUFACTURER		
1	HOUSING	LCP	A430	POLYPLASTICS CO.,LTD.	V－0	E 106764

株式会社アイペックス
I-PEX Co.,Ltd.

APPROVAL	CHECK	ORIGINATOR
K.Katabuchi Oct/02/'02	E.Kawabe Oct/02/'02	A.Hino Oct/02/'02

FORM REV.0

Underwriters Laboratories Inc.

QMFZ8.E213445
Plastics Certified For Canada - Component

Page Bottom Questions? Previous Page

Plastics Certified For Canada - Component

Guide Information

WINTECH POLYMER LTD E213445
18-1 KONAN 2-CHOME
MINATO-KU
TOKYO 108-8280, JAPAN

		Min.		H	H	H	R T I			C
		Thk	Flame	W	A	V	Elec	Mech		T
Mtl Dsg	Color	mm	Class	I	I	A		Imp	Str	I
Acrylonitrile Butadiene Styrene/Polybutylene Terephthalate (ABS/PBT), flame retardant, "Duranex", furnished as pellets.										
901SS	BK	0.8	V-2	-	-	-	60	60	60	
Acrylonitrile Butadiene Styrene/Polybutylene Terephthalate (ABS/PBT), glass reinforced, "Duranex", furnished as pellets.										
AN7315(++)	ALL	0.75	V-0	-	-	-	60	60	60	
AN75(yy)(++)										
	ALL	0.75	V-0, 5VA	3	2	3	120	105	110	3
		1.5	V-0, 5VA	2	2	3	130	105	130	
		3.0	V-0, 5VA	2	1	3	130	105	140	
AN7515(++)	ALL	0.75	V-0, 5VA	3	1	3	120	105	110	3
		1.5	V-0, 5VA	2	1	3	140	105	130	
		3.0	V-0, 5VA	2	1	3	140	105	140	

		1.5	HB	3	0	-	130	120	130	
		3.0	HB	3	0	-	130	120	130	
3105(g) (w), 3200(g)										
	ALL	0.71	HB	4	0	-	130	-	-	1
		1.5	HB	3	0	-	130	120	130	
		3.0	HB	3	1	0	130	120	130	
3105A	NC	0.4	HB	-	-	-	75	75	75	
	NC, WT, BK	1.5	HB	-	-	-	75	75	75	
3105A(g)	ALL	0.75	HB	-	-	-	75	75	75	
3105M(g)	ALL	0.75	HB	-	-	-	75	75	75	
3106(g)	ALL	0.75	HB	-	-	-	75	75	75	
310EP(n)(e)	ALL	0.75	V-0	3	0	0	140	-	140	2
		1.5	V-0	3	0	0	140	130	140	
		3.0	V-0	2	0	0	140	130	140	
3111(g)	ALL	1.5	V-0	-	-	-	75	75	75	
3111G(g)	ALL	0.81	V-0	-	-	-	75	75	75	
3116(e)	ALL	0.75	V-0	4	0	0	130	-	130	2
		1.5	V-0	3	0	0	130	120	130	
	NC, BK	3.0	5VA	2	0	0	130	120	130	
3126(e)	ALL	0.75	V-0	4	0	0	130	-	130	2
		1.5	V-0	3	0	0	130	120	130	
	NC, BK	3.0	5VA	2	0	0	130	120	130	
315EP(n)(e)	ALL	0.75	V-0	3	0	0	140	-	140	2
		1.5	V-0	3	0	0	140	130	140	
		3.0	V-0	2	0	0	149	130	140	
315HF	BK	0.8	V-0	-	-	-	75	75	75	
315LC	ALL	0.80	V-0	-	-	-	75	75	75	
3175(g)	ALL	0.71	V-0	4	3	3	140	130	140	3
		1.5	V-0	3	3	3	140	130	140	
		3.0	V-0	2	4	3	140	130	140	
3185(g)	ALL	0.75	V-0	3	2	0	140	130	140	3
		1.5	V-0	2	1	0	140	130	140	

I-PEX CONNECTOR 拉力測試報告

步驟一 將線材I-PEX固定夾緊

步驟二按下操作鍵,開始進行拉力測試,直到部品被破壞為止

步驟三檢視破壞的地方,並詳加紀錄於表單中,將測試值紀錄於管制圖中

編號	1	2	3	4	5	6	7	8	9	10	AVG
拉力值	1.98	1.88	2.24	2.21	1.95	1.89	2.10	2.23	2.15	1.93	2.06

UNIT : kgw