納 入 仕 様 書

iAN067
iAN067-MB5
iAN067-1ME
iAN067-3.5ME
iAN067-12ME
iAN067Z
iAN067Z-MB5
iAN067Z-1ME
iAN067Z-3.5ME
iAN067Z-12ME

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改版履歴

版数	日付	承認者	改版者	改版内容
1..0	2018 年 2 月 23 日	中嶋	正木	初版発行
1.1	2018 年 7 月 25 日	中嶋	正木	1)項目削除 (1.Specification,"Antenna Color Storage life") 2)仕様3.電気特性に"アンテナ形式:ダイポール"追記
1.2	2018 年 8 月 10 日	中嶋	正木	"IDY"ロゴ無しモデル(iAN067Z/iAN067Z-MB5)追加
1.3	2019 年 5 月 22 日	中嶋	正木	2.4GHz 帯 (2400-2500MHz) Data 追加
1.4	2019 年 10 月 16 日	中嶋	正木	2000-2400MHz Data 追加
1.5	2021 年 8 月 25 日	中嶋	正木	基台部仕様変更: ① 型番変更 BS43D05BSM => BS43D05BSM-I ② 梱包仕様変更(36pcs/Carton => 24pcs/Carton) ③ 外観仕様変更(赤燐不含有記載)
1.6	2021 年 10 月 21 日	中嶋	正木	「2. Characteristics and Reliability Test」 中国語削除 「5.アンテナ本体外観仕様」 差替 「6.アンテナ本体梱包仕様」 差替 「8.マグネット基台部仕様」 差替(中国語版=>英語版)
1.7	2023 年 2 月 15 日	中嶋	正木	Band B40 データ(2302.5MHz/2350MHz/2397.5MHz)追加 Antenna Direction (X-Y-Z)方向定義訂正
1.8	2024 年 2 月 7 日	中嶋	正木	1m/12m 延長ケーブル付属モデル追加(-1ME,-12ME) 延長ケーブル(iEC1M/iEC12M)仕様追加 IDY 住所変更
1.9	2025 年 6 月 19 日	大野	正木	7. アンテナ本体 RoHS 試験 データ差替え RoHS(6 品目)=> RoHS2 (10 品目)
1.10	2026 年 2 月 2 日	大野	正木	① 延長ケーブル3.5m(iEC3.5M)付きモデル iAN067-3.5ME 及び iAN067Z-3.5ME追加

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■ 適用

本仕様書は、株式会社IDY（以下、「IDY」という）が供給する 3G/LTE/WiMAX2+及び 2.4G WIFI/Bluetooth 向けアンテナ iAN067、iAN067Z と各種延長ケーブル付きアンテナの納入仕様書である。

■ 仕様

1. 型名

iAN067	（アンテナ本体のみ）
iAN067Z	（アンテナ本体のみ、”IDY”ロゴ無し）
iAN067-MB5	（5m ケーブル付きマグネット基台 BS43D05BSM-I 付属）
iAN067Z-MB5	（5m ケーブル付きマグネット基台 BS43D05BSM-I 付属、”IDY”ロゴ無し）
iAN067-1ME	（1m 延長ケーブル iEC1M 付属、）
iAN067Z-1ME	（1m 延長ケーブル iEC1M 付属、”IDY”ロゴ無し）
iAN067-3.5ME	（3.5m 延長ケーブル iEC3.5M 付属、）
iAN067Z-3.5ME	（3.5m 延長ケーブル iEC3.5M 付属、”IDY”ロゴ無し）
iAN067-12ME	（12m 延長ケーブル iEC12M 付属、）
iAN067Z-12ME	（12m 延長ケーブル iEC12M 付属、”IDY”ロゴ無し）

2. 用途　3G/LTE/WiMAX2+及び 2.4G WIFI/Bluetooth 等の通信モジュールに接続し使用される。

3. 電気特性

周波数範囲	：	704-2700MHz	
V.S.W.R	：	≦ 3	
インピーダンス	：	50 Ω	
アンテナ形式	：	ダイポール	
水平面内指向性	：	無指向性	
偏波面	：	垂直偏波	
利得	：	704-960MHz	Typ. -1.0dBi
		1447.9-1510.9MHz	Typ. -1.5dBi
		1710-2170MHz	Typ. +0.9dBi
		2170-2400MHz	Typ. +2.0dBi
		2400-2500MHz	Typ. +2.5dBi
		2500-2690MHz	Typ. +2.3dBi
		≦ 3dBi @ 704~2700MHz	

4. 外観仕様

コネクタ	：	SMA-P（オス）
寸法	：	139.9(L) x 18(W) x 13(H) mm

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Specification

1. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	**704~2700 MHz**
V.S.W.R.	**<= 3.0** **The data is tested with 1M cable**
Peak Gain	**704-960MHz Typ. -1.0dBi** **1447.9-1510.9MHz Typ. -1.5dBi** **1710-2170MHz Typ. +0.9dBi** **2170-2400MHz Typ. +2.0dBi** **2400-2500MHz Typ. +2.5dBi** **2500-2690MHz Typ. +2.3dBi** **≦ 3dBi @ 704~2700MHz**
Polarization	**Linear, Vertical**
Impedance	**50 Ohm**
B. Material & Mechanical Characteristics	
Material of Radiator	**PCB**
Material of Plastic	**ABS**
Cable Type	**RG-178U**
Connector Type	**SMA Male**
C. Environmental	
Operation Temperature	**- 40 ˚C ~ + 65 ˚C**
Storage Temperature	**- 40 ˚C ~ + 80 ˚C**

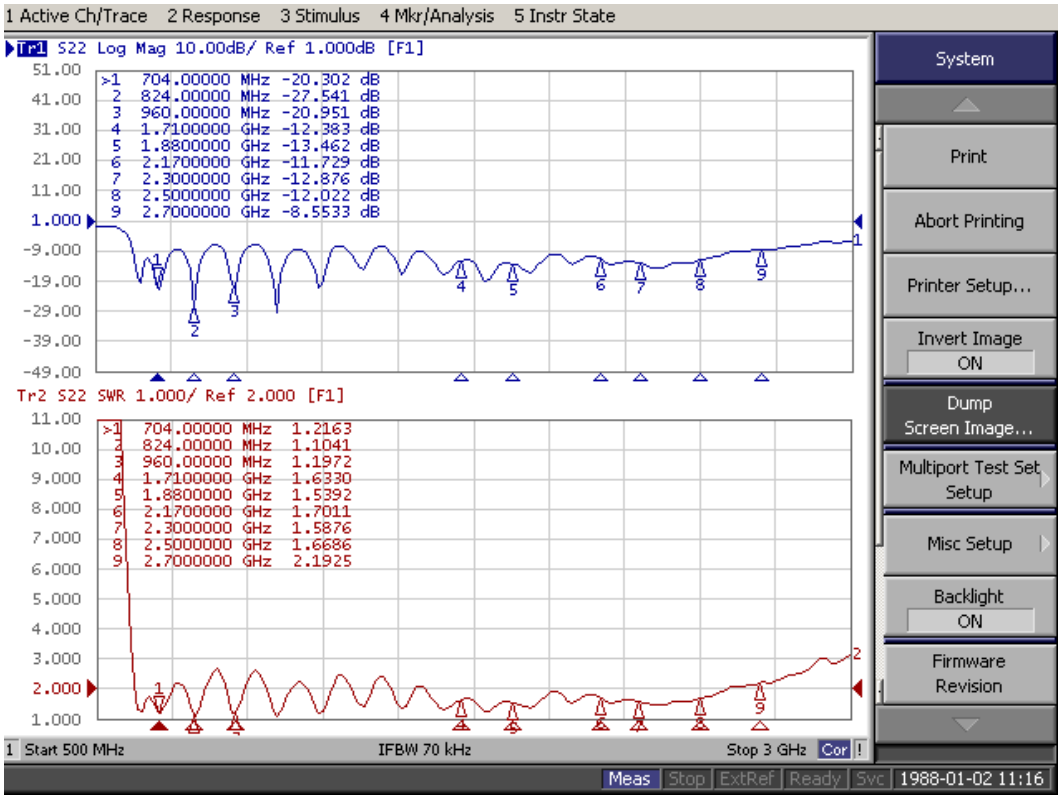
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2. Characteristics and Reliability Test

Test Items		Test Condition and Procedure	Requirements	Result
C1	V.S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification	PASS
C3	Antenna Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification	PASS
M1	Vibration	GB / T2423.48-2008 Amplitude: 0.03 inch (1.5mm); Freq: 20 to 80 to 20 Hz 3 directions; 2 hours for each direction	1. No Visual Damage 2. Frequency Tol.≤5%	PASS
M2	Random Drop	GB / T2423.8-1995 Single：Height: 1.0 Meter; 3 directions; 1 time for each direction	1. No parts separated、fracture 2. Frequency Tol.≤5%	PASS
M4	Pull Test	Holding with individual specification; force applied to axis of terminal.	1. Directive DUT specification 2. Frequency Tol.≤5%	PASS
M5	Torque Test	Holding with individual specification; applied clockwise and counterclockwise to the axis of terminal	1. Directive DUT specification 2. Frequency Tol.≤ 5%	PASS
M6	Dimension	Inspection of dimension, color, material, package, surface process.	Directive DUT specification	PASS
E3	Temperature and Humidity Chamber	GB / T 2423.3-2006 Temp: 80°C / 12 H; -40°C / 12H RH: ≥ 90%; Time: 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.≤5%	PASS
E4	Thermal Shock	GB / T 2423.22 - 2008 - 40° C (30 minutes) to + 80° C (30 minutes)；Cycles: 24	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.≤5%	PASS
E5	Aging test	GB /T 2423.2 - 2008 Temp: 80°C; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.≤5%	PASS
R1	RoHS	With Reference to IEC 62321:2008 with flow chart	Directive RoHS 2011/65/EU	PASS

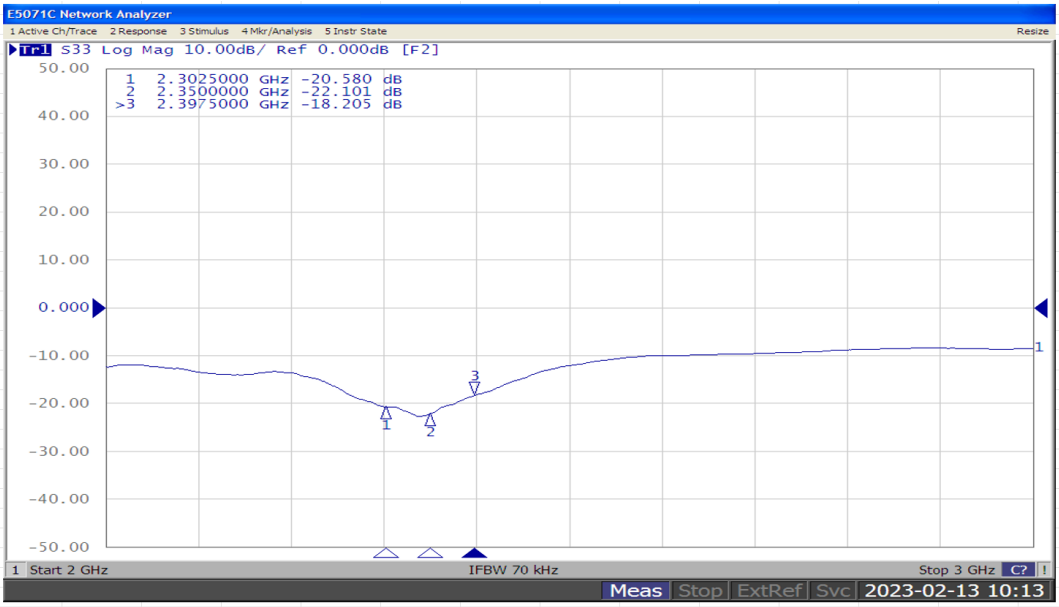
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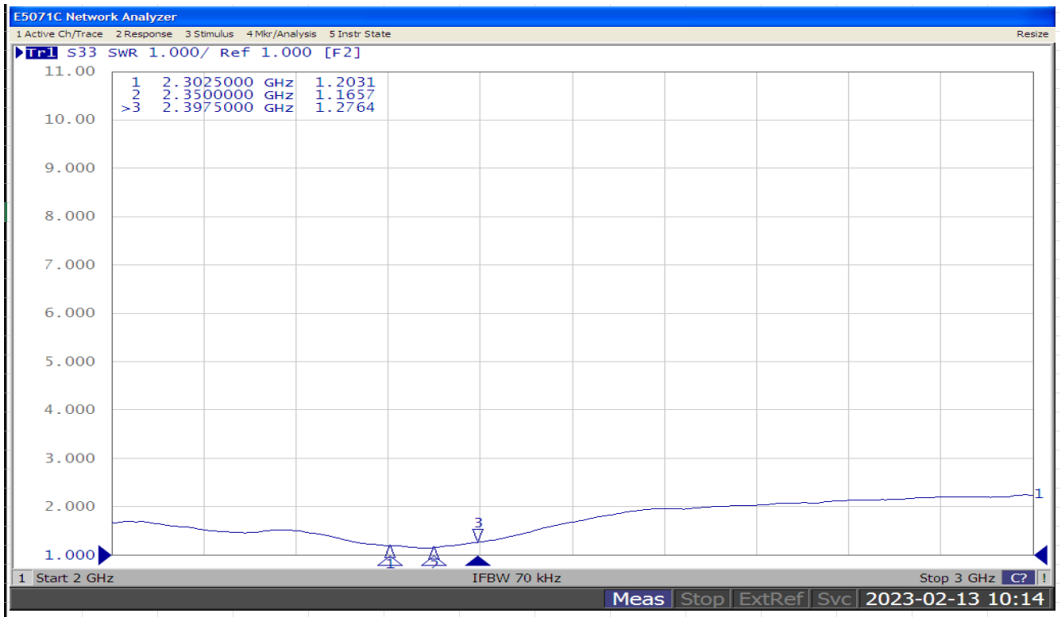
3. Antenna - S Parameter Test Data



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（追加試験:2023 年 2 月）





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4. Antenna – Peak Gain and Radiation Pattern Test Data

Frequency (MHz)	703	718	733	748	816.5	817.5	830	842.5	846.5
TRP (dBm)	-5.54	-5.68	-5.62	-5.38	-4.27	-4.25	-3.22	-3.49	-3.57
Peak EIRP (dBm)	-1.29	-1.49	-1.5	-1.34	-0.86	-0.84	0.14	-0.2	-0.32
E-Total Peak Gain(dBi)	-1.29	-1.49	-1.5	-1.34	-0.86	-0.84	0.14	-0.2	-0.32
Directivity (dBi)	4.24	4.19	4.12	4.04	3.42	3.41	3.36	3.29	3.25
Efficiency (%)	27.95	27.06	27.42	28.95	37.37	37.54	47.67	44.79	43.98

Frequency (MHz)	882.5	902.5	907.5	912.5
TRP (dBm)	-5.38	-5.4	-5.35	-5.68
Peak EIRP (dBm)	-1.49	-1.25	-1.16	-1.48
E-Total Peak Gain(dBi)	-1.49	-1.25	-1.16	-1.48
Directivity (dBi)	3.89	4.15	4.19	4.2
Efficiency (%)	28.95	28.84	29.17	27.04

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Frequency (MHz)	1430.4	1445.4	1450.4	1460.4	1575	1712.5	1747.4	1764.9	1782.4
TRP (dBm)	-5.33	-5.47	-5.49	-5.51	-3.16	-3.82	-3.8	-3.77	-3.73
Peak EIRP (dBm)	-1.4	-1.56	-1.61	-1.67	1.57	-0.44	-0.49	-0.4	-0.25
E-Total Peak Gain (dBi)	-1.4	-1.56	-1.61	-1.67	1.57	-0.44	-0.49	-0.4	-0.25
Directivity (dBi)	3.93	3.91	3.88	3.84	4.73	3.39	3.31	3.37	3.48
Efficiency (%)	29.3	28.4	28.27	28.1	48.27	41.48	41.73	41.98	42.32

Frequency (MHz)	1920	1922.5	1940	1950	1955	1960	1970	1977.5
TRP (dBm)	-2.94	-2.92	-2.74	-2.59	-2.52	-2.45	-2.48	-2.5
Peak EIRP (dBm)	1.08	1.09	1.16	1.44	1.58	1.73	1.82	1.9
E-Total Peak Gain (dBi)	1.08	1.09	1.16	1.44	1.58	1.73	1.82	1.9
Directivity (dBi)	4.02	4.01	3.9	4.04	4.11	4.17	4.31	4.4
Efficiency (%)	50.79	51.07	53.23	55.02	55.97	56.95	56.48	56.19

Frequency (MHz)	2000	2100	2150	2200	2250	2300
TRP (dBm)	-2.5	-2.8	-2.8	-2.9	-2.72	-2.53
Peak EIRP (dBm)	2.46	2.16	2.15	2.05	1.81	2.19
E-Total Peak Gain (dBi)	2.46	2.16	2.15	2.05	1.81	2.19
Directivity (dBi)	4.96	4.96	4.96	4.96	4.53	4.72
Efficiency (%)	56.2	52.52	52.42	51.23	53.42	55.87

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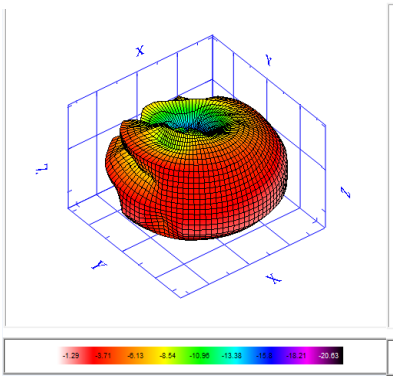
Frequency (MHz)	2400	2410	2420	2430	2440	2450
TRP (dBm)	-2.22	-2.3	-2.12	-2.2	-2.3	-2.42
Peak EIRP (dBm)	2.19	2.6	2.53	2.65	2.3	2.22
E-Total Peak Gain (dBi)	2.19	2.6	2.53	2.65	2.3	2.22
Directivity (dBi)	4.41	4.9	4.65	4.85	4.6	4.64
Efficiency (%)	60.01	58.83	61.42	60.28	58.85	57.28

Frequency (MHz)	2460	2470	2480	2490	2500
TRP (dBm)	-2.52	-2.4	-2.35	-2.6	-2.49
Peak EIRP (dBm)	2.37	2.68	2.83	2.59	2.85
E-Total Peak Gain (dBi)	2.37	2.68	2.83	2.59	2.85
Directivity (dBi)	4.89	5.08	5.18	5.18	5.34
Efficiency (%)	55.97	57.49	58.22	54.97	56.37

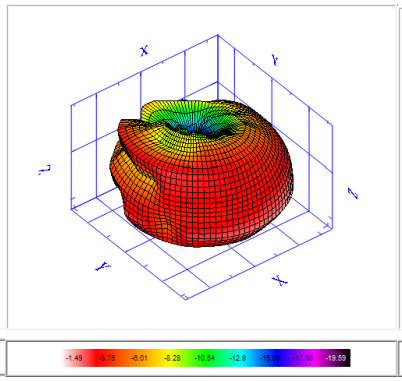
Frequency (MHz)	2501	2550	2595	2640	2685
TRP (dBm)	-1.9	-2.23	-2.34	-2.39	-3.05
Peak EIRP (dBm)	2.7	2.44	2.34	2.35	1.68
E-Total Peak Gain (dBi)	2.7	2.44	2.34	2.35	1.68
Directivity (dBi)	4.6	4.66	4.69	4.74	4.73
Efficiency (%)	64.55	59.85	58.29	57.64	49.53

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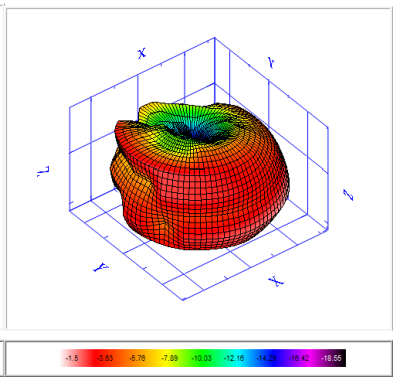
703MHz



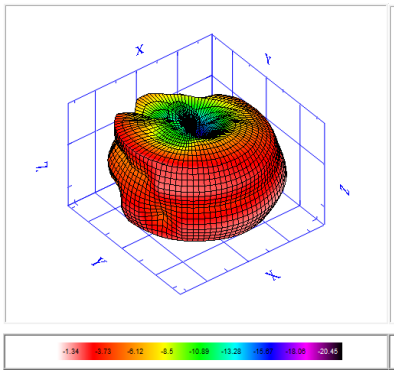
718MHz



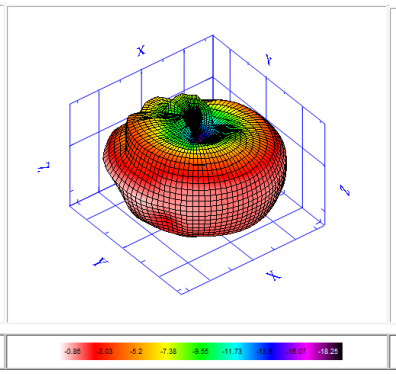
733MHz



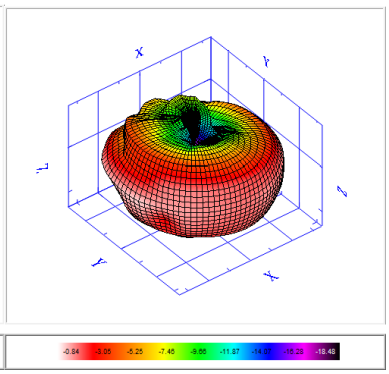
748MHz



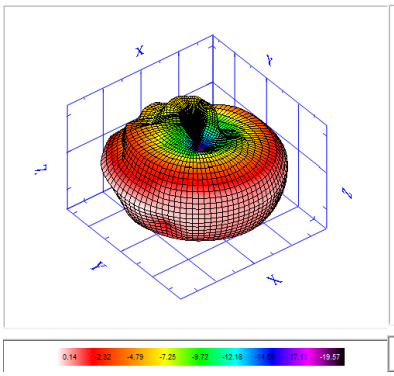
816.5MHz



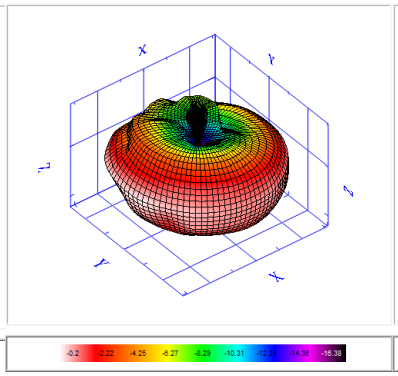
817.5MHz



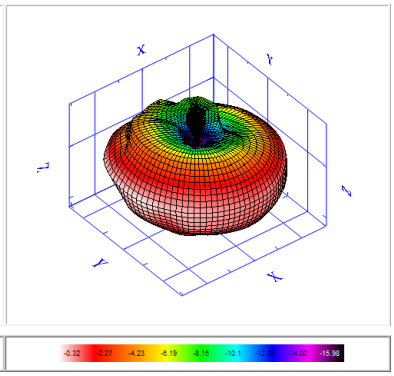
830MHz



842.5MHz

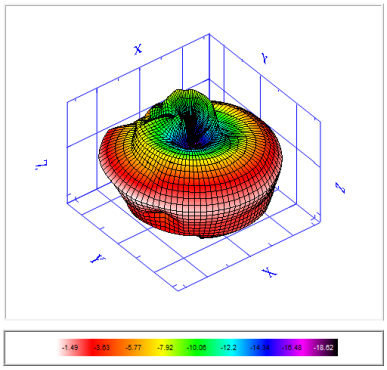


846.5MHz

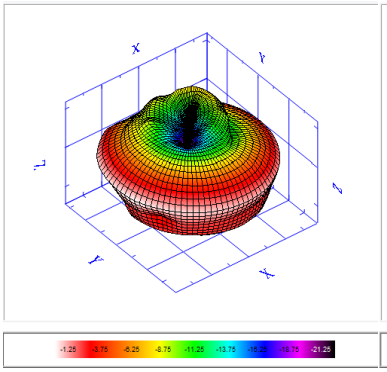


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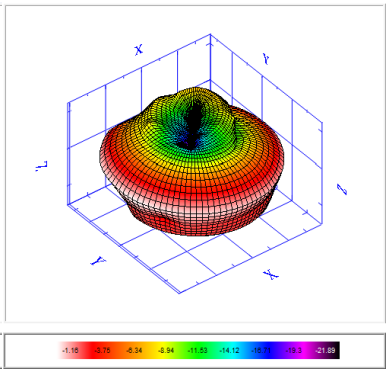
882.5MHz



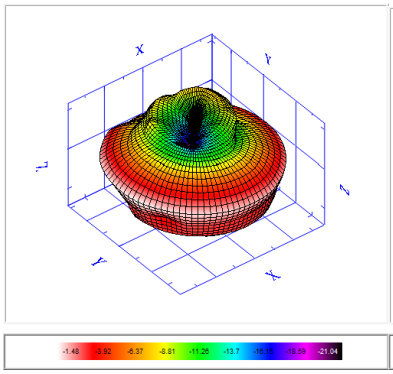
902.5MHz



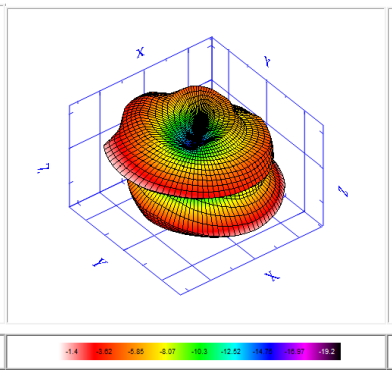
907.5MHz



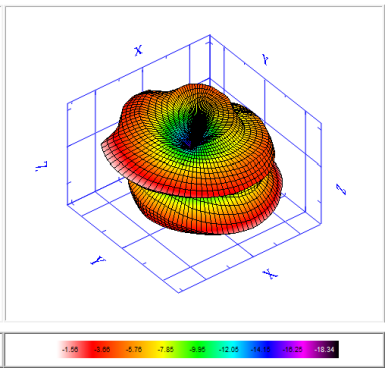
912.5MHz



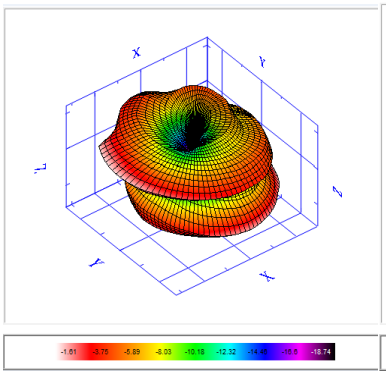
1430.4MHz



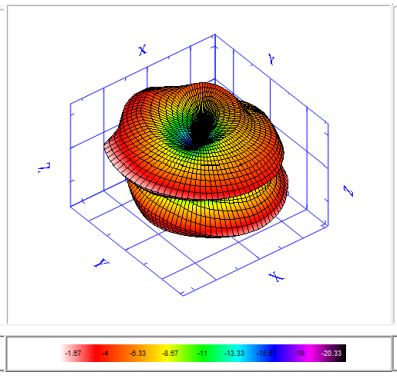
1445.4MHz



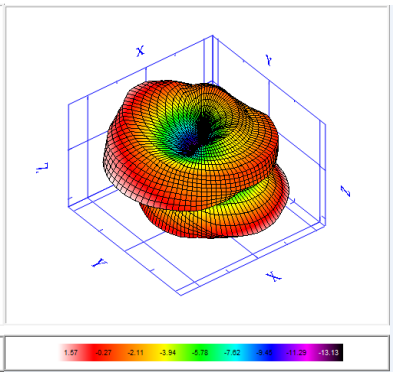
1450.4MHz



1460.4MHz

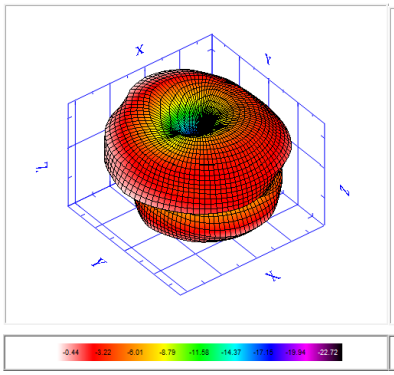


1575MHz

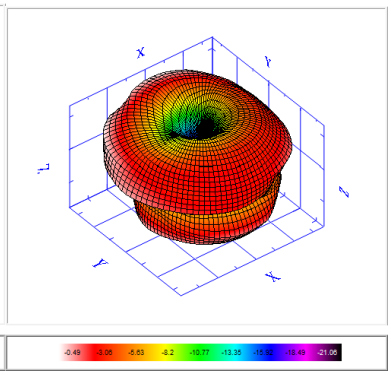


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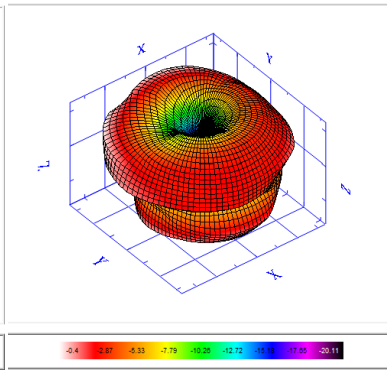
1712.5MHz



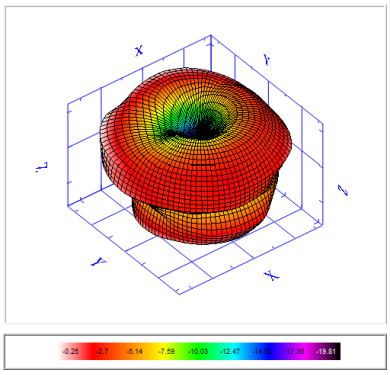
1747.4MHz



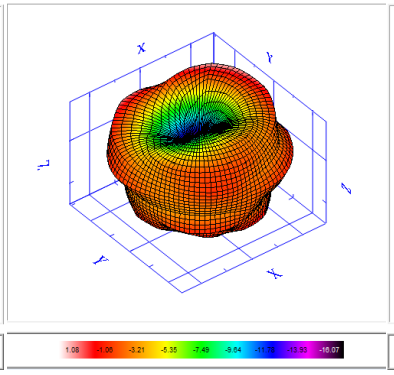
1764.9MHz



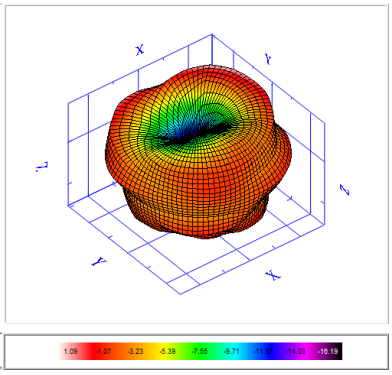
1782.4MHz



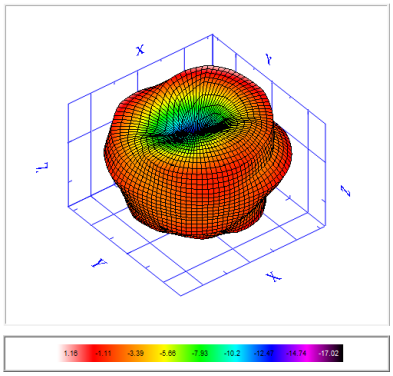
1920MHz



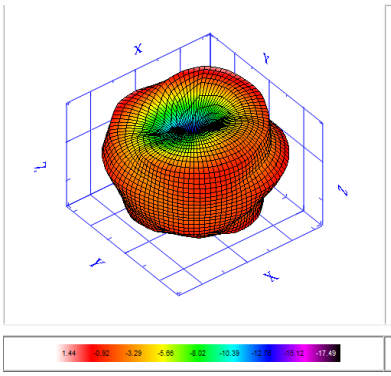
1922.5MHz



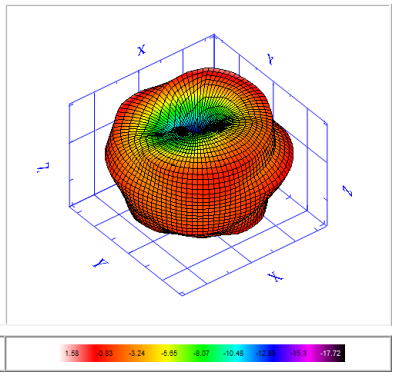
1940MHz



1950MHz

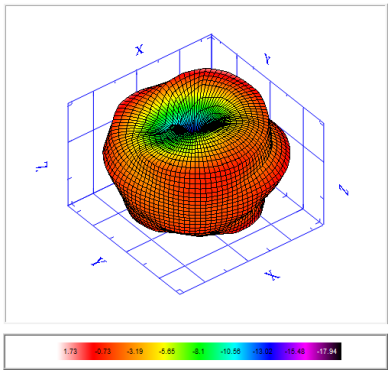


1955MHz

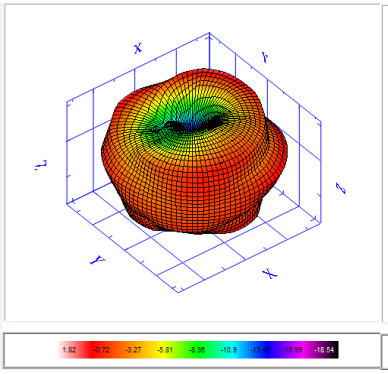


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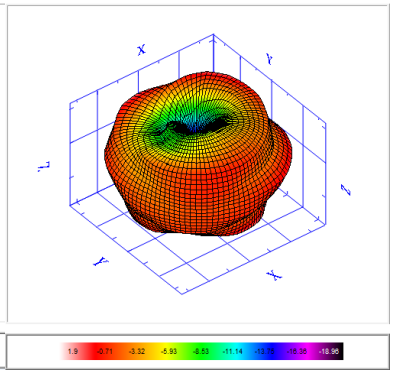
1960MHz



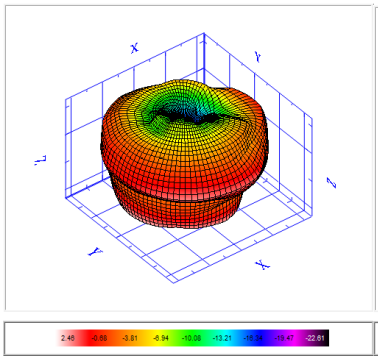
1970MHz



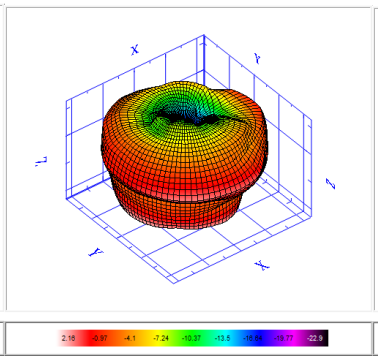
1977.5MHz



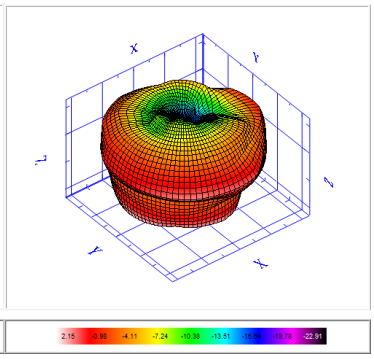
2000MHz



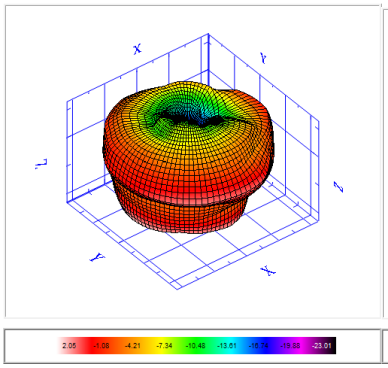
2100MHz



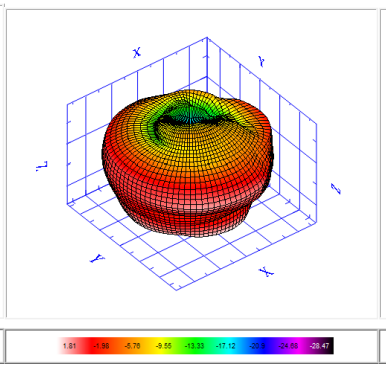
2150MHz



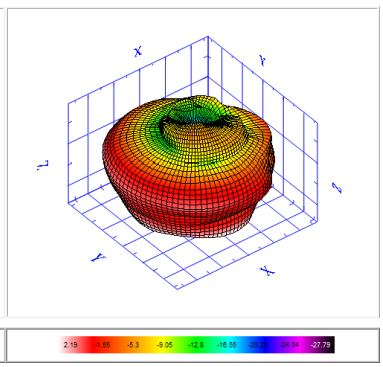
2200MHz



2250MHz

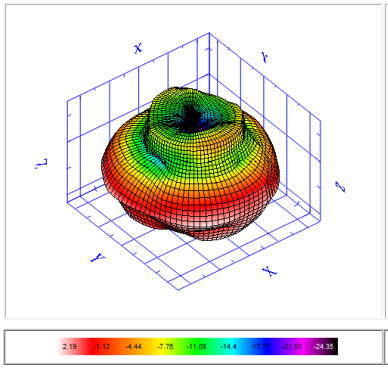


2300MHz

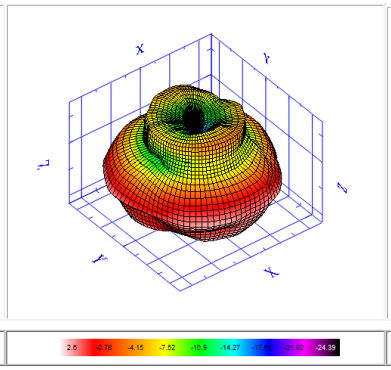


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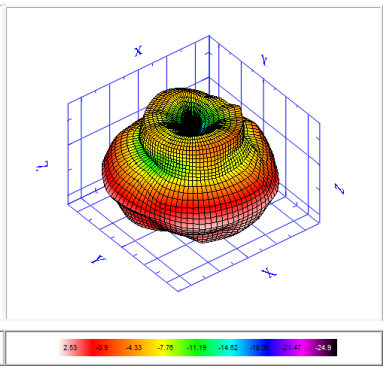
2400MHz



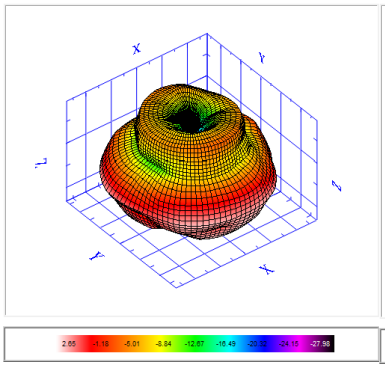
2410MHz



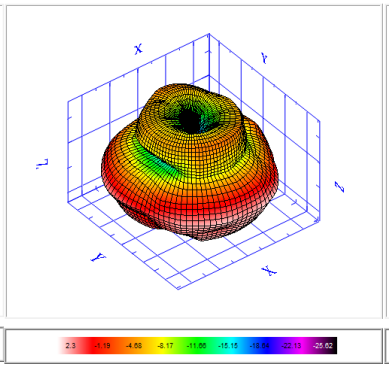
2420MHz



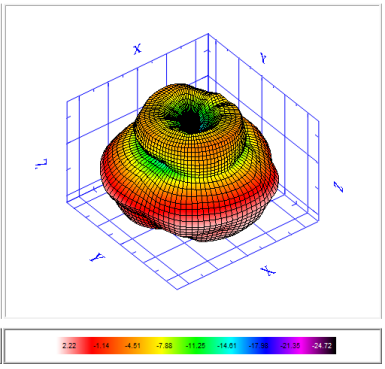
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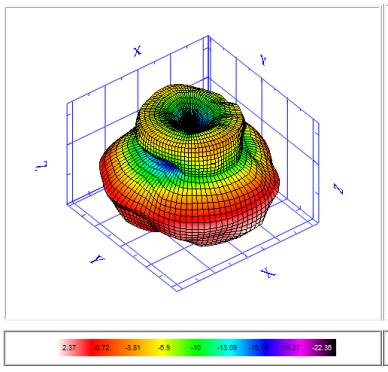
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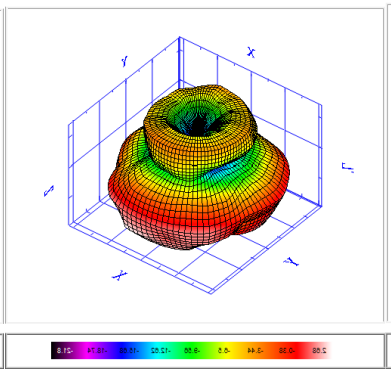
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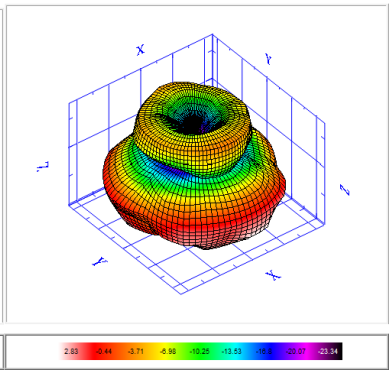
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2470MHz

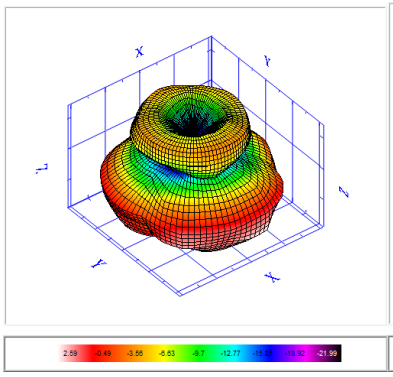


2480MHz

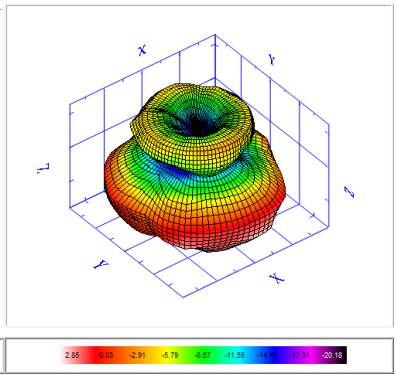


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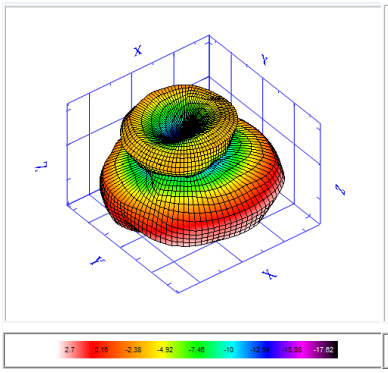
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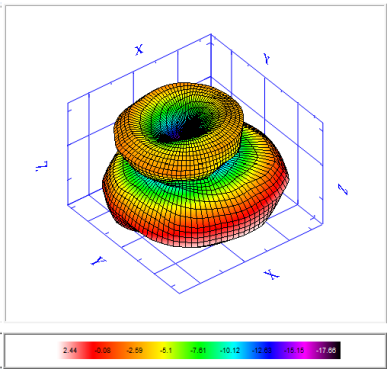
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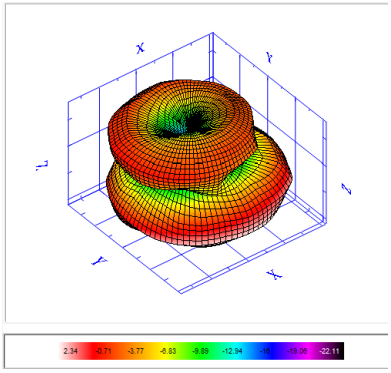
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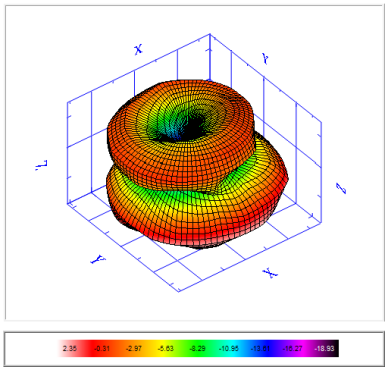
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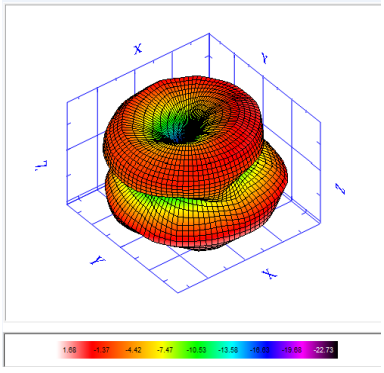
2595MHz



2640MHz

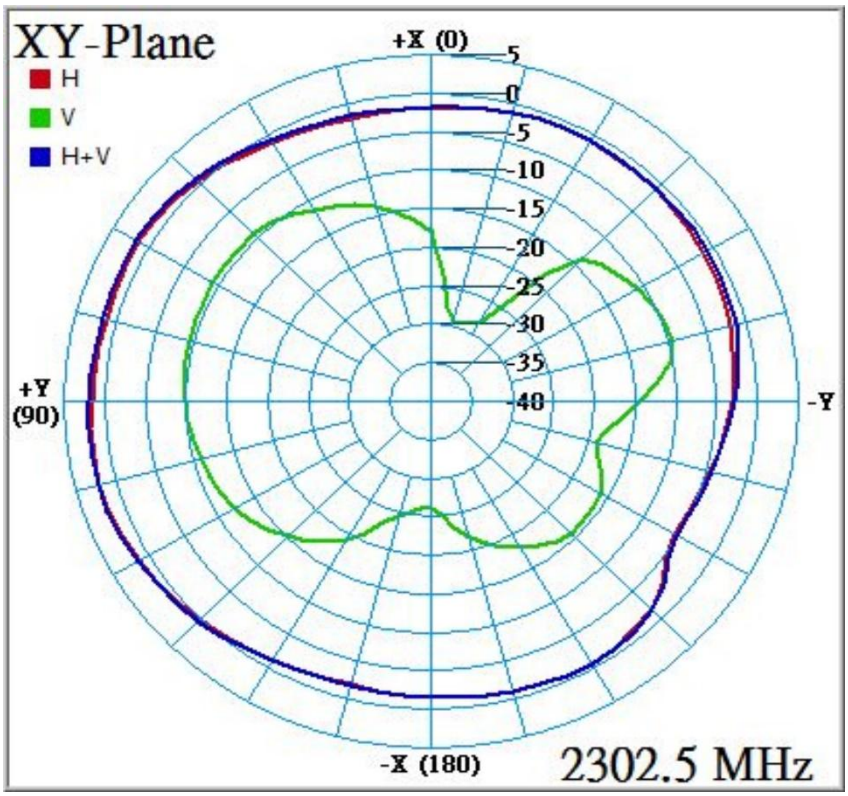


2685MHz



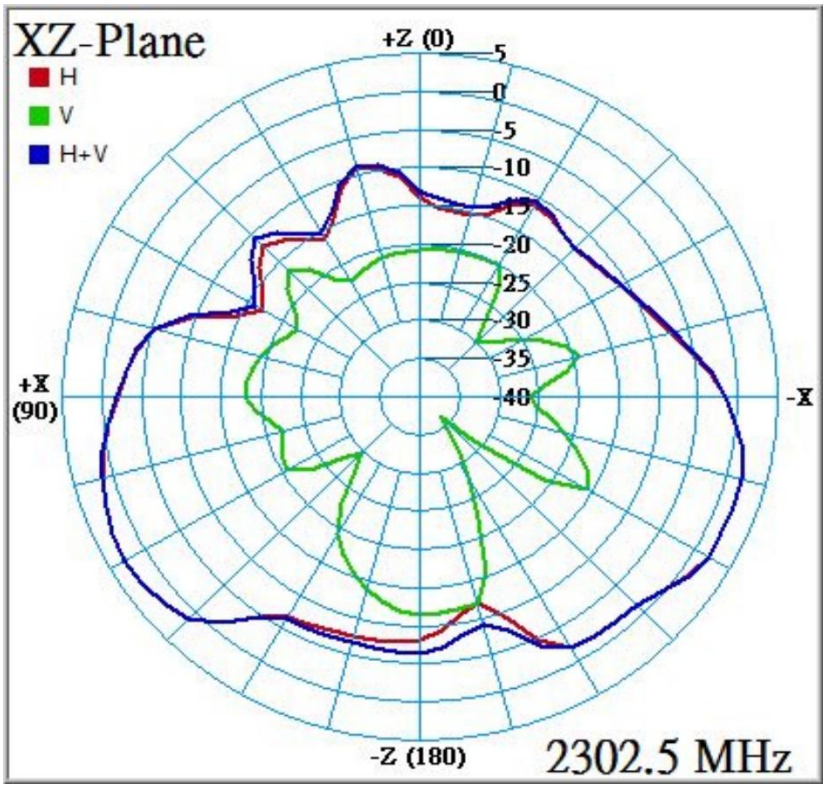
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（追加試験:2023 年 2 月）



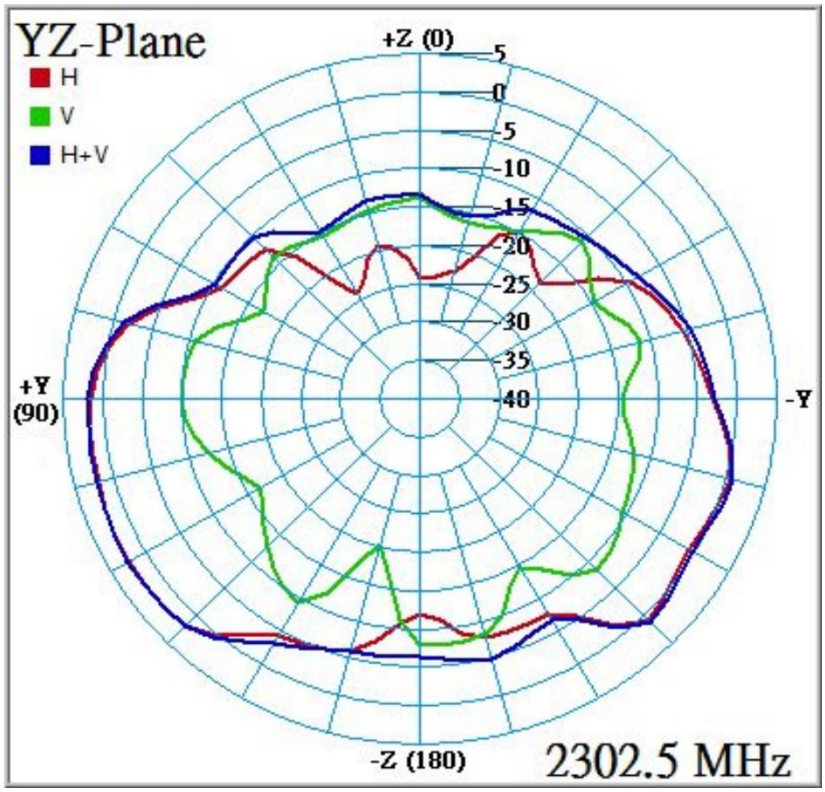
Frequency (MHz)	Horizontal	Vertical	Total
Tot. Rad. Pwr. (dBi)	-0.71	-13.23	-0.47
Peak EIRP (dBi)	2.04	-9.15	2.25
Directivity (dBi)	2.74	4.08	2.72
Efficiency (dB)	-0.71	-13.23	-0.47
Efficiency (%)	84.97	4.75	89.72
Gain (dBi)	2.04	-9.15	2.25

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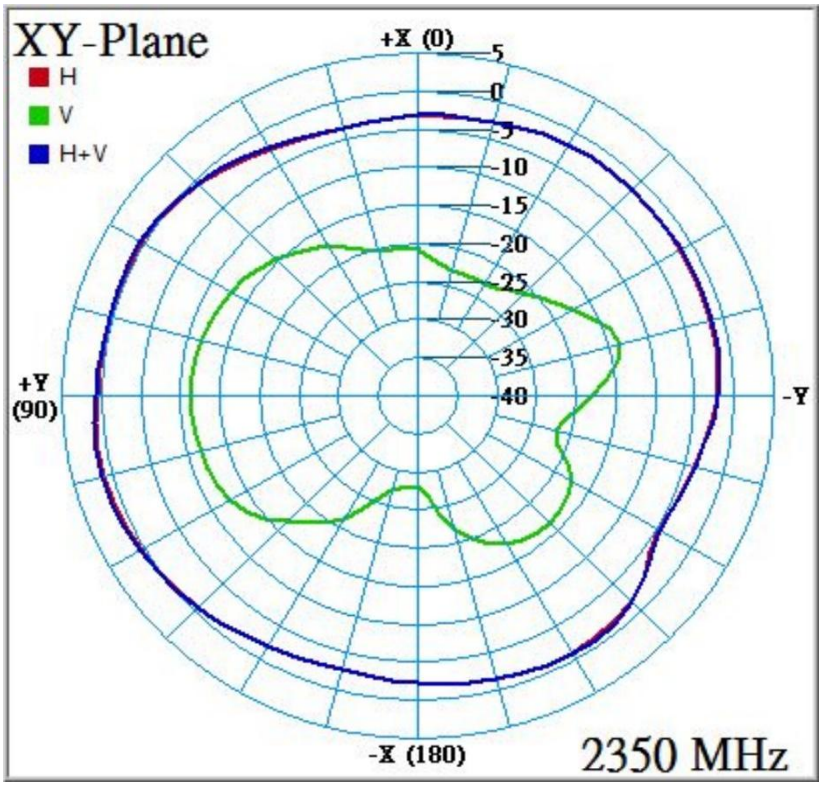
Frequency (MHz)	Horizontal	Vertical	Total
Tot. Rad. Pwr. (dBi)	-3.06	-18.38	-2.94
Peak EIRP (dBi)	2.83	-11.48	2.85
Directivity (dBi)	5.9	6.9	5.79
Efficiency (dB)	-3.06	-18.38	-2.94
Efficiency (%)	49.39	1.45	50.84
Gain (dBi)	2.83	-11.48	2.85

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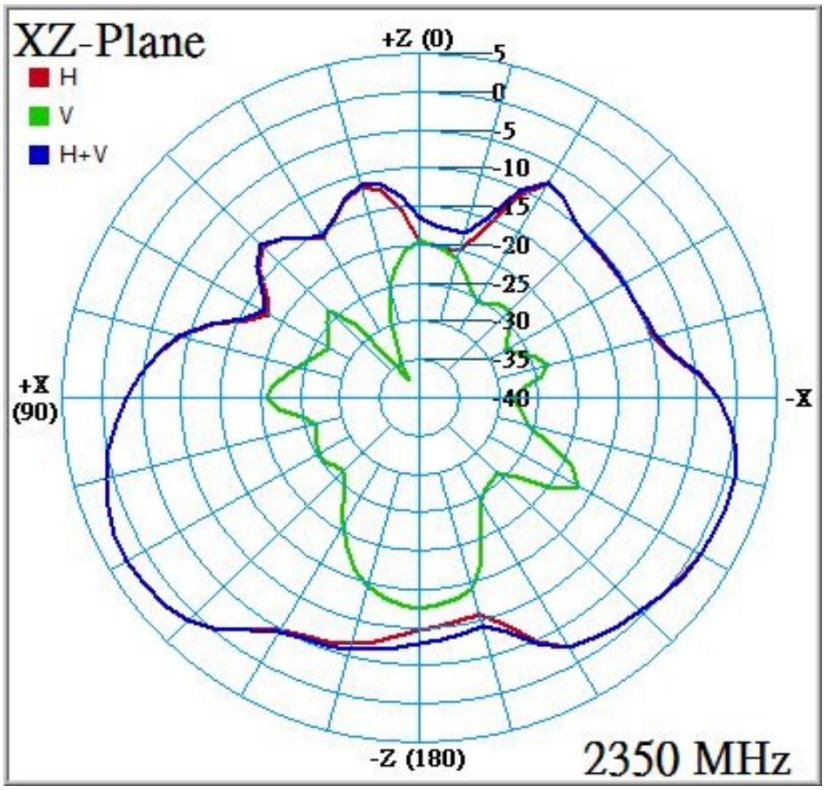
Frequency (MHz)	Horizontal	Vertical	Total
Tot. Rad. Pwr. (dBi)	-2.97	-11.93	-2.45
Peak EIRP (dBi)	2.43	-7.78	2.48
Directivity (dBi)	5.4	4.15	4.94
Efficiency (dB)	-2.97	-11.93	-2.45
Efficiency (%)	50.42	6.41	56.83
Gain (dBi)	2.43	-7.78	2.48

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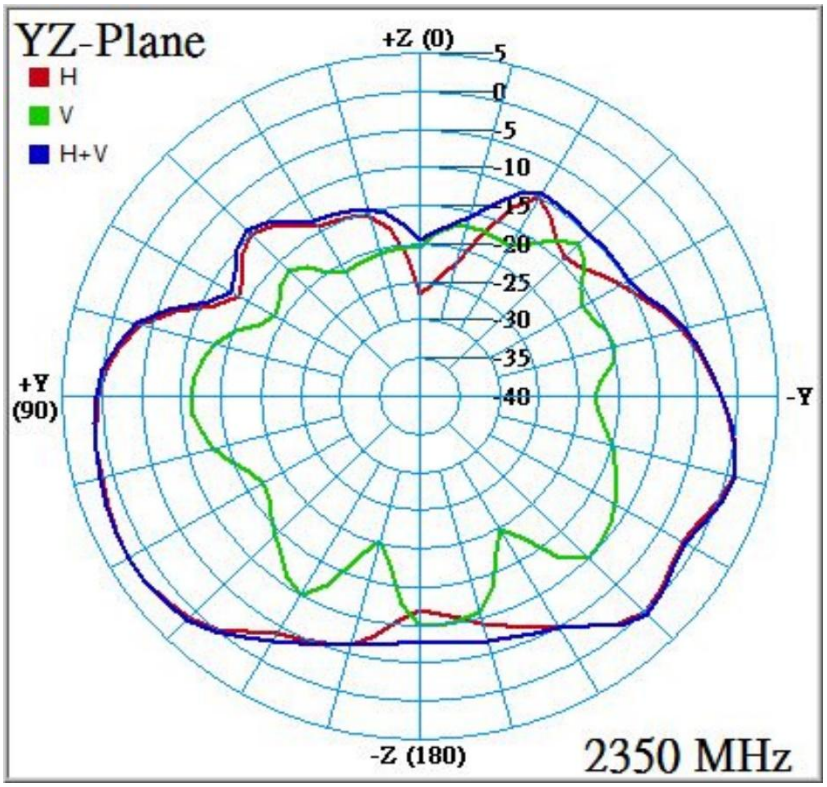
Frequency (MHz)	Horizontal	Vertical	Total
Tot. Rad. Pwr. (dBi)	-1.46	-16.09	-1.31
Peak EIRP (dBi)	1.07	-11.12	1.29
Directivity (dBi)	2.53	4.97	2.61
Efficiency (dB)	-1.46	-16.09	-1.31
Efficiency (%)	71.42	2.46	73.88
Gain (dBi)	1.07	-11.12	1.29

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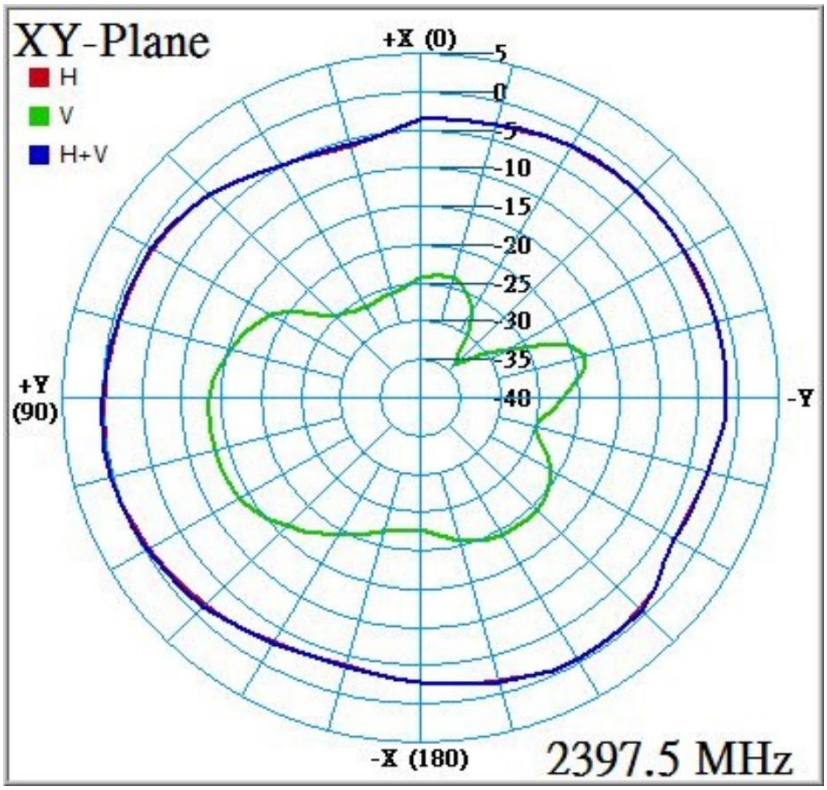
Frequency (MHz)	Horizontal	Vertical	Total
Tot. Rad. Pwr. (dBi)	-3.42	-20.18	-3.33
Peak EIRP (dBi)	2.59	-12.51	2.6
Directivity (dBi)	6.02	7.67	5.93
Efficiency (dB)	-3.42	-20.18	-3.33
Efficiency (%)	45.46	0.96	46.42
Gain (dBi)	2.59	-12.51	2.6

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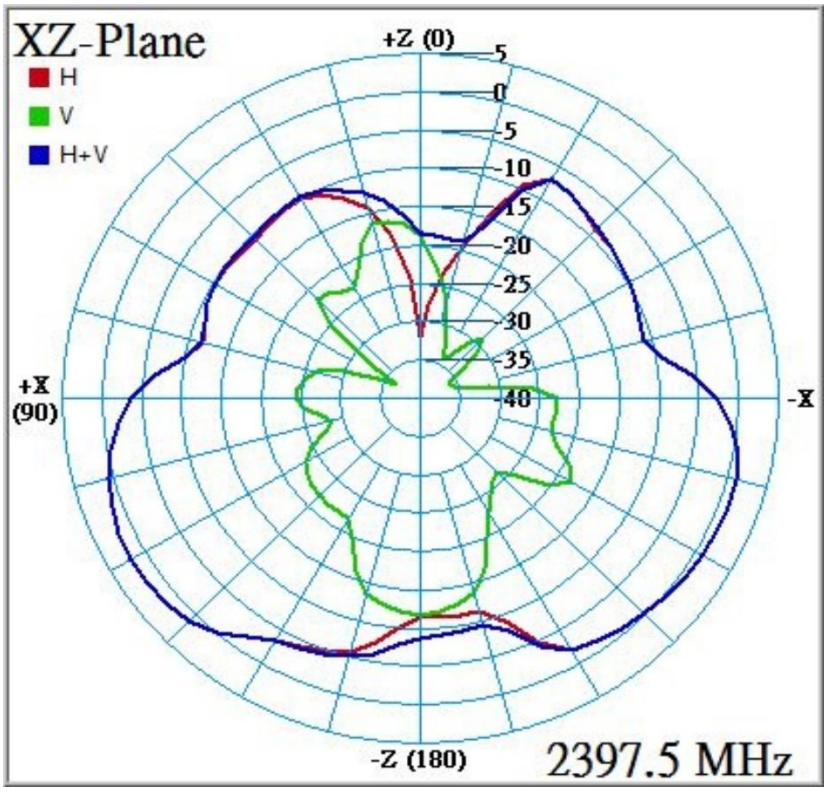
Frequency (MHz)	Horizontal	Vertical	Total
Tot. Rad. Pwr. (dBi)	-3.29	-13.88	-2.93
Peak EIRP (dBi)	2.28	-9.81	2.33
Directivity (dBi)	5.58	4.07	5.26
Efficiency (dB)	-3.29	-13.88	-2.93
Efficiency (%)	46.85	4.1	50.95
Gain (dBi)	2.28	-9.81	2.33

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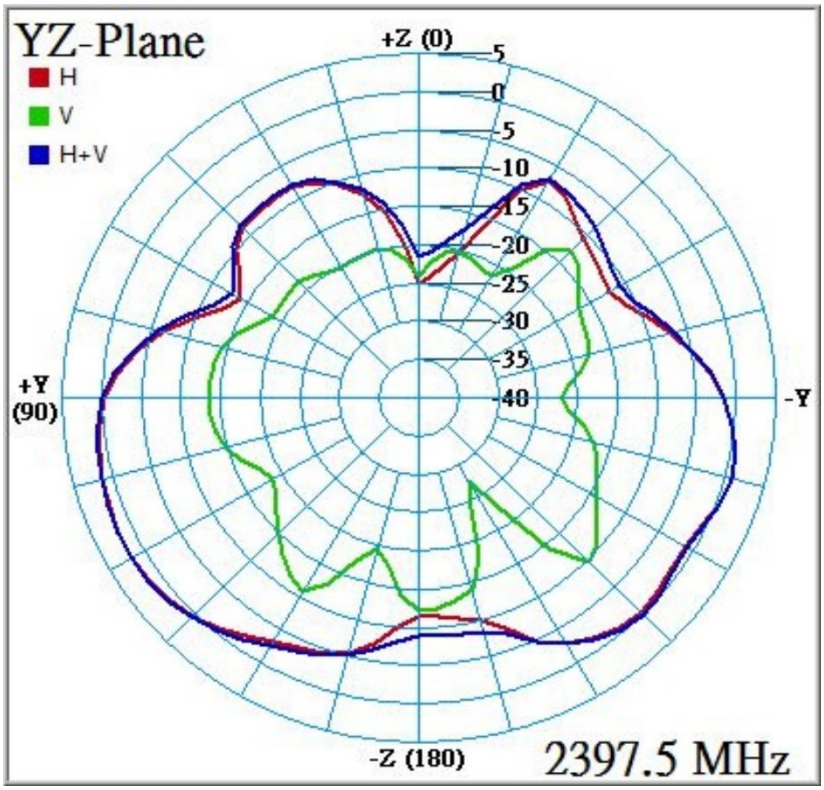
Frequency (MHz)	Horizontal	Vertical	Total
Tot. Rad. Pwr. (dBi)	-1.95	-18.89	-1.86
Peak EIRP (dBi)	0.1	-13.3	0.29
Directivity (dBi)	2.04	5.59	2.15
Efficiency (dB)	-1.95	-18.89	-1.86
Efficiency (%)	63.86	1.29	65.15
Gain (dBi)	0.1	-13.3	0.29

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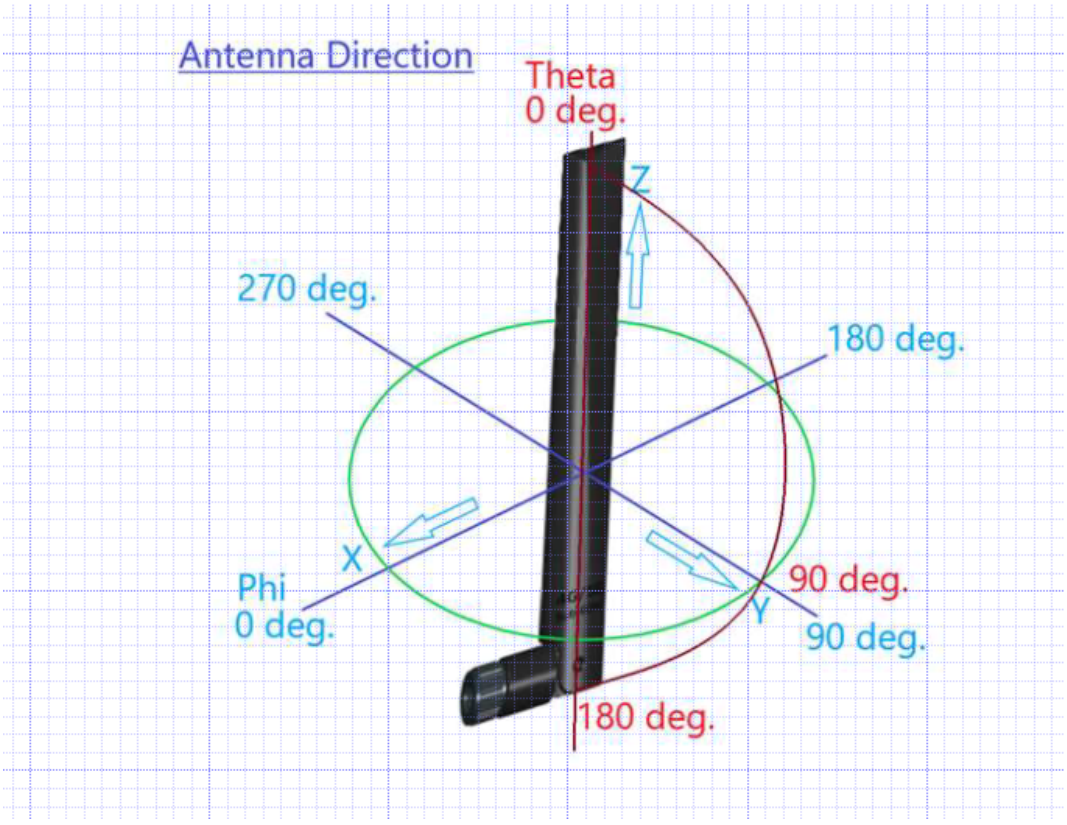
Frequency (MHz)	Horizontal	Vertical	Total
Tot. Rad. Pwr. (dBi)	-3.48	-19.67	-3.37
Peak EIRP (dBi)	2.05	-11.8	2.06
Directivity (dBi)	5.52	7.87	5.43
Efficiency (dB)	-3.48	-19.67	-3.37
Efficiency (%)	44.91	1.08	45.99
Gain (dBi)	2.05	-11.8	2.06

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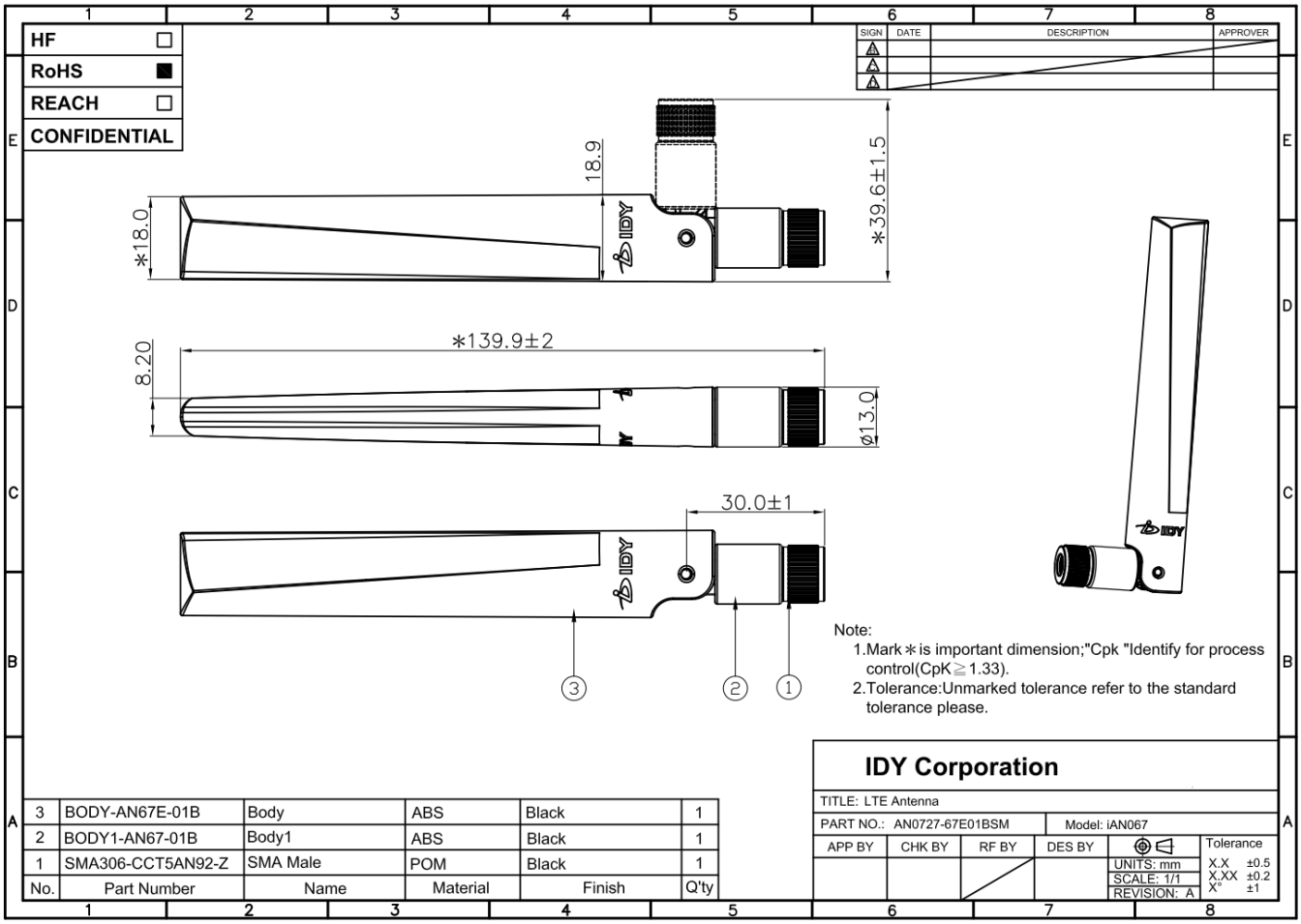
Frequency (MHz)	Horizontal	Vertical	Total
Tot. Rad. Pwr. (dBi)	-3.36	-15.43	-3.09
Peak EIRP (dBi)	1.82	-9.65	1.85
Directivity (dBi)	5.17	5.78	4.95
Efficiency (dB)	-3.36	-15.43	-3.09
Efficiency (%)	46.18	2.86	49.04
Gain (dBi)	1.82	-9.65	1.85

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5. アンテナ本体外観仕様



No.	Part Number	Name	Material	Finish	Q'ty
3	BODY-AN67E-01B	Body	ABS	Black	1
2	BODY1-AN67-01B	Body1	ABS	Black	1
1	SMA306-CCT5AN92-Z	SMA Male	POM	Black	1

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6. アンテナ本体梱包仕様

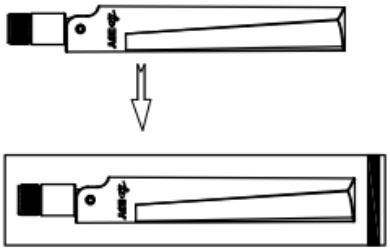
CONFIDENTIAL

PACKING CRITERION

Date：2018/02/06 Page：1 of 1

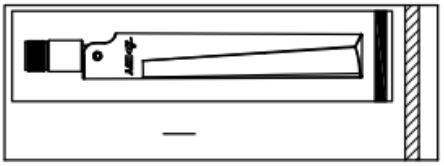
Part Number : AN0727-67E01BSM Model : iAN067	Revision : A
Name: Antenna	Customer :

1．WITH THE ANT INTO THE PE BAG



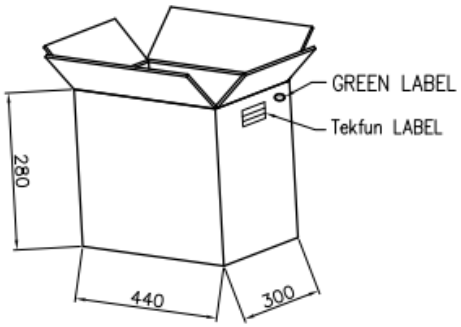
R-STI-BAG-20040

2. 10 PCS/PE BAG

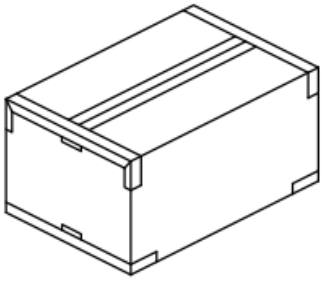


R-PE-BAG-220260

3. PACKING



500PCS / CARTON





UNITS: mm

APPROVED BY: _____ CHECKED BY: _____ DESIDNED BY: _____

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7. アンテナ本体 RoHS 試験

SGS 台灣網站 → http://twap.sgs.com/sgsrsts/chn/cheres_tw.asp
SGS 大陸網站 → http://rsts.cn.sgs.com/chn/cheres_cn.asp
SGS 韓國網站 → http://rohs.kr.sgs.com/sgsrsts/en/cheres_en.asp

請輸入以下報告正確資料及檢查碼以便查核
1. 報告編號
2. 報告日期 (YYYY/MM/DD)
3. 產品名稱 (輸入前 10 個字不含空白)
4. 圖示檢查碼 (依指示畫面)

物料中HSF對象物質含量調查表

物料名稱：iAN067 (AN0727-67E01BSM)

序號	物料型號	物料各構成名稱	各構成物料的材質	測試報告裡RoHS2.0對應物質測試結果										檢測報告編號	測試日期	測試名稱	測試機構名稱
				Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs	DBP	BBP	DIBP	DEHP				
1	BODY-AN67E-01B	Body	ABS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	A2250053068101003	2025.03.07	ABS HP171-NP	CTI
2	BODY1-AN67-01B	Body1	ABS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	A2250053068101003	2025.03.07	ABS HP171-NP	CTI
3	BODY	BODY	黑色色母	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	A2250263976101001E	2025.04.29	彩色母粒	CTI
4	SMA306-CCT5AN92-Z	SMA Male Reverse	POM	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	EKR24B01872M01	2024.12.03	台塑鋼	SGS
5			銅	43	28146	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANPC25009215005	2025.04.30	Brass rod (C3604)	SGS
6	PB-AN67E-01FB	PCB	FR4	N.D.	17	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC24019790709	2024.09.14	FR-4.0 CCL&insulating board	SGS
7	GS-AN67	EVA	EVA	N.D.	14	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC24028865441	2025.01.03	Environmental	SGS
8	RG-178U-03	Cable	棕色色母	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	NGBPC24005315513	2024.09.23	Colored-FEP (Brown)	SGS
9			FEP	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	NGBPC24007471211	2024.12.23	FLUORINATED ETHYLENE	SGS
10			镀银铜	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC25000298401	2025.01.10	SC	SGS
11			镀锡铜	N.D.	46	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	A2250174863101001E	2025.03.26	TINNDE COPPER WIRE	CTI

根據測試報告如實填寫鉛、鎘、汞、六價鉻、PBBs和PBDEs六項禁用物質的含量
包裝材料中鉛、鎘、汞、六價鉻總含量不超過100ppm，鎘的允許濃度為5ppm
歐盟ROHS指令豁免條款2011/65/EU、鋼中合金元素中的鉛含量达0.35%、铝含量达0.4%、铜合金中的铅含量达4%

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■BS43D05BSM-I マグネット基台　仕様

Product Number: BS43D05BSM-I
Product Name: Magnetic Base Antenna

Specification For Approval

Date: 2021 / 10 / 6

File No.: 181219001

Version: 1.3

P/N : BS43D05BSM-I

Description : Magnetic Base Antenna

IDY Checked By:
Customer Approved By:

Page 1

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Product Number: BS43D05BSM-I
Product Name: Magnetic Base Antenna

Index:

1. Revision History / Page 3

2. Reliability Testing / Page 4

3. Specification / Page 4

4. Mechanical and Packing Drawing / Page 5 ~ 6

5. Material Description and RoHS Test Report / Page 7 ~ 9

6. Appendex-1 : SWR & Insertion Loss Test Data / Page 10

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Product Number: BS43D05BSM-I
Product Name: Magnetic Base Antenna

1. Revision History

Revision	Date	Change Notification	Description
1.0	2018.05.12	Issued	
1.1	2018.12.19	Changed Packaging Updated Drawing	1. Added inner box. 2. Added the IDY logo to the print on the outer box. 3. Changed the number of contents in one box from 36 to 24. 4. Added "Plastic materials are free of red phosphorus".
1.2	2021.09.15	Changed Packaging	Changed the packaging specifications in English.
1.3	2021.10.06	Added Data	Added Appendex-1: SWR & Insertion Loss Test Data

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Product Number: BS43D05BSM-I
Product Name: Magnetic Base Antenna

2. Reliability Testing

Test Item	Procedure	Requirement
1. Visual inspection and Dimension Check	Applicable methods using x5 magnification	follow specification
2. Rapid Changing of Temperature	-40˚C (30minutes) to 80˚C (30minutes); 24 cycles	After 2 hours recovery: 1. no visible damage 2. Freq. Tol.: < ±5%
3. Damp Heat	24 hours at 60˚C; 90 ~ 95% RH	After 2 hours recovery: 1. no visible damage 2. Freq. Tol. : < ±5%
4. Endurance	24 hours at 80˚C	After 2 hours recovery: 1. no visible damage 2. Freq Tol.: < ±5%

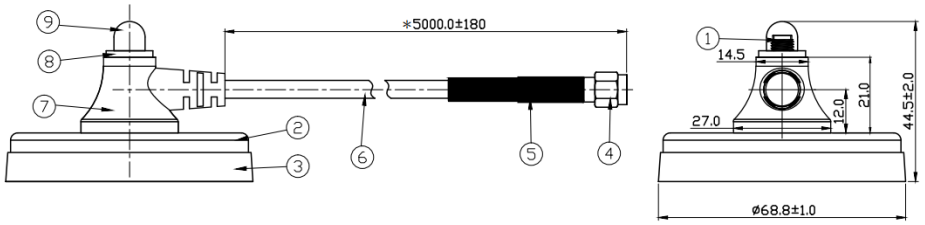
3. Specification

A. Electrical Characteristics	
Impedance	**50 Ohm**
B. Material	
Material of Radiator	**Cu (Plated)**
Material of Coaxial Cable	**RG58 / 1000mm / Cable Loss: 0.68dB @ 2450MHz for 1 Meter**
C. Environmental	
Operation Temperature	**- 40 ˚C ~ + 65 ˚C**
Storage Temperature	**- 40 ˚C ~ + 80 ˚C**

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RoHS Compatible ★★★★☆

SIGN	DATE	DESCRIPTION	APPROVER
A	2018.12.19	Plastic materials are free of red phosphorus	
A			
A			



NO	Part Number	Name	Material	Finished	QTY
9	R-SMA-SLR-800	SMA Hat	STR	Red	1
8	R-AN29-RU-1320	Shim	Rubber	Black	1
7	AB43-SR-SMA	SR	PVC	Black	1
6	RG-58U-2	Cable	RG58	Black	1
5	R-HSTUBE-006T-1	Hot Shrinke Tube	EVA	ø6.0*20mm	1
4	SMA010-CGT558-A	SMA Male	Brass	Au Plated	1
3	R-AN62-09	Rubber	Rubber	Black	1
2	R-AN62-08C	Metal Body	Iron	Black	1
1	SMA946-CGR558-B	SMA Female	Cu	Au Plated	1

Note:
1.Mark * is important dimension;"Cpk "Identify for process control(CpK ≧ 1.33).
2.Tolerance:Unmarked tolerance refer to the standard tolerance please.
3.Plastic materials are free of red phosphorus

IDY Corporation

TITLE: Magnetic Base

IDY P/N: BS43D05BSM-I

APP BY	CHK BY	RF BY	DES BY	Tolerance
				UNITS: mm
				SCALE: 1/1
				REVISION: A

X.X ±0.5
X.XX ±0.2
X° ±1

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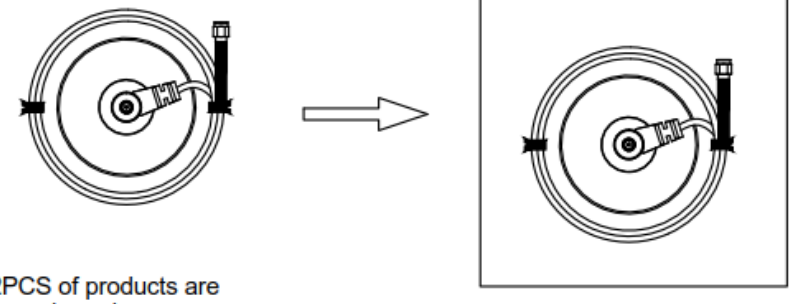
★★★★☆

PACKING CRITERION

Date: 2018/12/25

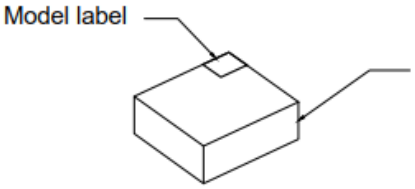
IDY P/N: BS43D05BSM-I	Revision : B
Name: Magnetic Base	Customer : ALL

1. 1pcs of products are packed in Zipper bag.

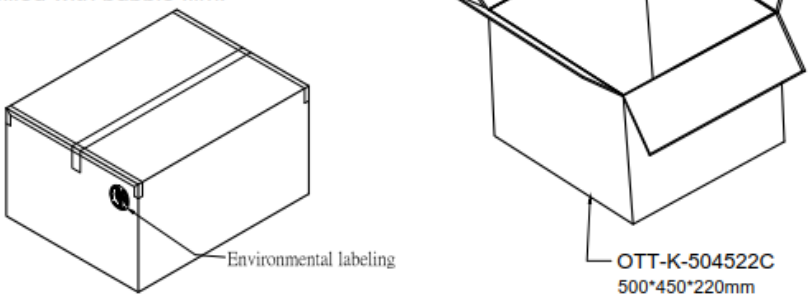


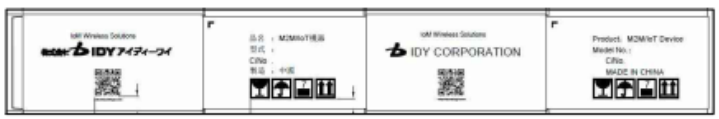
R-PE-BAG-170250-1

2.Each 2PCS of products are packed in an inner box。



3. The master carton is packed with 6 inner boxes of products in each layer, 2 layers in total, each containing 24pcs. The gap is filled with bubble film.





Front Side Back Side

APPROVED BY : _____ CHECKED BY : _____ DESIGNED BY : _____

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BOM LIST

Part Number : BS43D05BSM-I

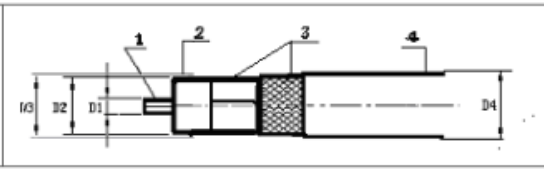
No.	Part Number	Description	Main source	Second source
1	SMA946-CGR558-B	SMA Female	Cortec	/
2	SMA010-CGT558-A	SMA Male	Cortec	/
3	R-AN62-08C	Metal Body	FD	/
4	RG-58U-2	Cable	SR	/
5	R-AN62-09	Rubber	XR	JY
6	R-AN29-RU-1320	Rubber	KY	JZ
7	R-SMA-SLR-800	SMA Hat	JY	JZ
8	R-HSTUBE-006T-1	SHTUBE	HF	SL
9	AB43-SR-SMA	SR	Cortec	/
10	R-AN62-10	Magnet	SG	/
11	R-CB-PL-F150B	Cable tie	SL	HZ
12	R-PE-BAG-170250-1	PE bag	SY	JH
13	R-PABO-190155100	Carton	LS	HR
14	OTT-K-504522	Carton	LS	HR
15	R-LABEL-EL-018	LABEL	LDSM	JC

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S.R Code: 17122603

RG58 Coaxial Cable Specification

（ **RG58** 同轴电缆规格书）

Type of coaxial cable: RG58				
Legend:				
RG58: 1.Inner conductor 内导体 2. Insulation 电缆芯线 3.Outer conductor 外导体 4. Jacket 护套				
Main Electrical properties:				
Characteristic impedance	阻抗	50±2Ohm		
Rated capacitance	电容	84±2 pf/m		
Velocity	速比	80%		
Operating frequency	工作频率	10~3000MHz		
Attenuation at typical frequencies:（dB/m）				
400MHz	900 MHz	1500 MHz	2100MHz	3000MHz
0.247	0.357	0.475	0.564	0.701
VSWR 10~3000MHz	电压驻波比	1.25Max.		
Mechanical Construction:				
Inner conductor: BC	裸铜线	0.94±0. 005mm		
Dielectric:foam PE	绝缘 FPE	2.85±0. 10mm		
Outer conductor: APA+TC	铝塑覆合箔＋镀锡铜线	3.40±0. 10mm（16*6/0.12mm）		
Jacket :PVC Black	护套黑色 PVC	5.0±0.10mm		
Engineering data:				
Maximum Pull Tension	最大拉拔力	42 lbs		
Minimum bending radius	最小弯曲半径	50mm		
Operating temperature	工作温度	-25~+70°C		
Reel Length	装盘长度	/		
jacket-Marking	产品标识	RG-58/U COAXIAL CABLE		

SuiRong COAXIAL CABLE Co.,Ltd

制造商:深圳市穗榕同轴电缆科技有限公司
生产地:深圳市龙岗区龙西务地铺清水路清水巷 40 号

WWW.SUIRONGCABLE.COM
Tel：+86-755-28217358 Fax+86-755-28217359

2017-12-26

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SGS TaiBei Network---http://twap.sgs.com/sgsrsts/chn/cheres_tw.asp
SGS Mainland Network---http://rsts.cn.sgs.com/zh-cn/cheres_cn.asp
SGS Korea S. Network---http://rohs.kr.sgs.com/sgsrsts/en/cheres_en.asp
PLS fill out the correct data for search

1.Report Number
2.Report Date(YYYY/MM/DD)
3.Product Name(Input the first 10 figures. Do not include the blar
4.The graphic presentation checking yard

HSF Datasheet

IDY P/N: BS43D05BSM-I

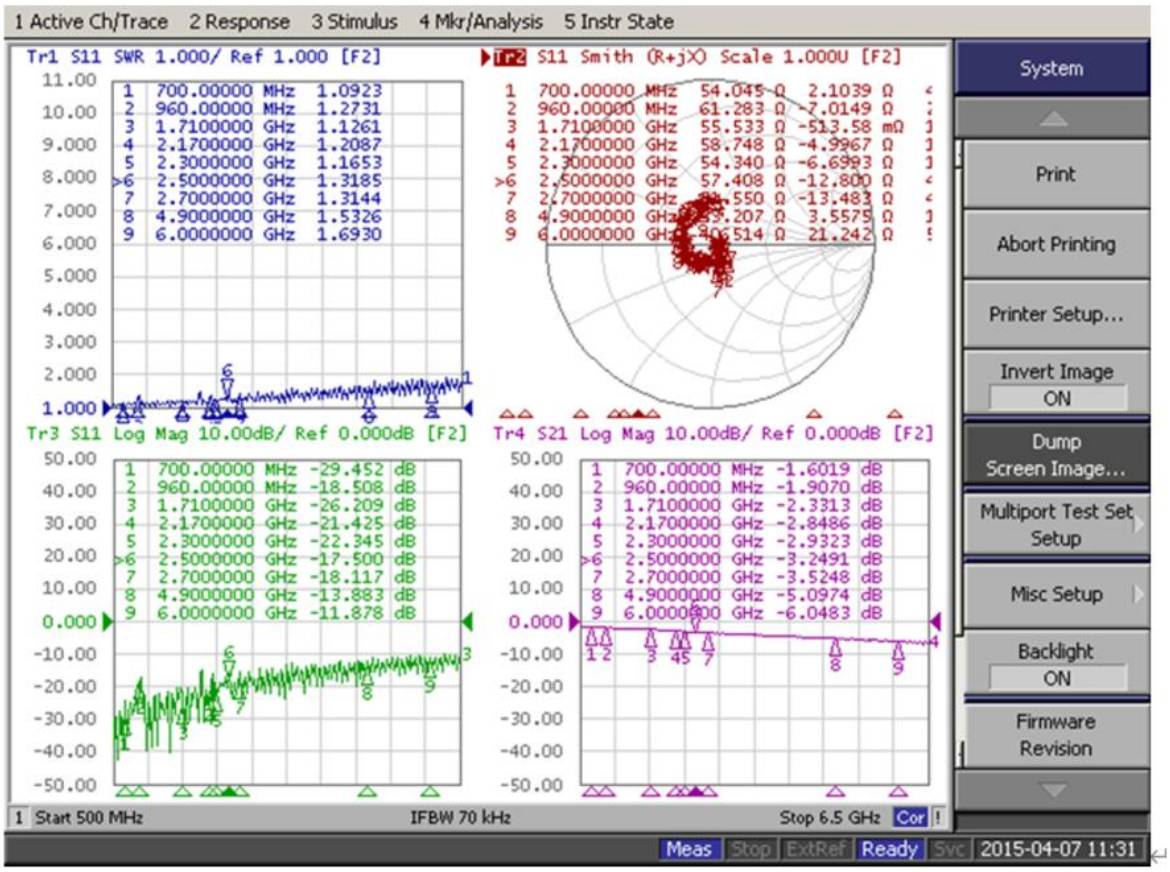
Number	Detali Part Number	Detail Name	Material	RoHS Test Results										Report Number	Test Date	Test Name	Test Locale
				Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs	DBP	BBP	DIBP	DEHP				
1	R-AN62-08C	Metal Body	FE	N.D.	N.D.	N.D.	N.D.							CANEC2103111404	2021.03.10	单光铁料	SGS
2	RG-58U-2	Cable	PVC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC2020811102	2020.11.27	PVC Black	SGS
3			PE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC2022021108	2020.12.18	HDPE	SGS
4			AL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	YCCT332020060601RZ2	2020.06.06	铝箔聚酯膜麦拉带	YCCT
5			BCU	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	TSNEC2002256101	2020.11.30	ELECTRICIAN	SGS
6			TCU	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	C210301069002-0	2021.03.05	镀锡线0.15	CPST
7	SMA946-CGR558-B SMA010-CGT558-A	SMA Female SMA Male	CU	N.D.	29790	N.D.	Negativ	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	AZT032106150008C-011	2021.07.05	C3604	AZT
8			Au Plated	N.D.	31	N.D.	N.D.							SZXEC2101871802	2021.06.28	銅車件電鍍金.	SGS
9	R-AN62-09 R-AN29-RU-1320	Rubber	Rubber	N.D.	7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	SZXEC2003052214	2020.12.10	NBR	SGS
10	R-SMA-SLR-800	SMA Hat	Silica Gel	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	A2210190796101002	2021.05.25	Red glue	SGS
11	R-HSTUBE-006T	SHTUBE	EVA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC2022443601	2020.12.22	HEAT SHRINKABLE TUBING	SGS
12	AB43-SR-SMA	SR	PVC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC2020811102	2020.11.27	PVC Black	SGS

PLS refer the SGS report, fill out the content of Pb, Cd, Hg, Cr6+, PBBs, PBDEs
The content of Pb, Cd, Hg, Cr6+, PBBs, PBDEs is less than 100 ppm in the package. The content of Cd is less than 5 ppm.
According to the EU ROHS directive exemption clause 2015/863/EU Lead as an alloying element in steel containing up to 0,35 % aluminium containing up to 0,4% copper alloy containing up to 4%

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Appendex-1

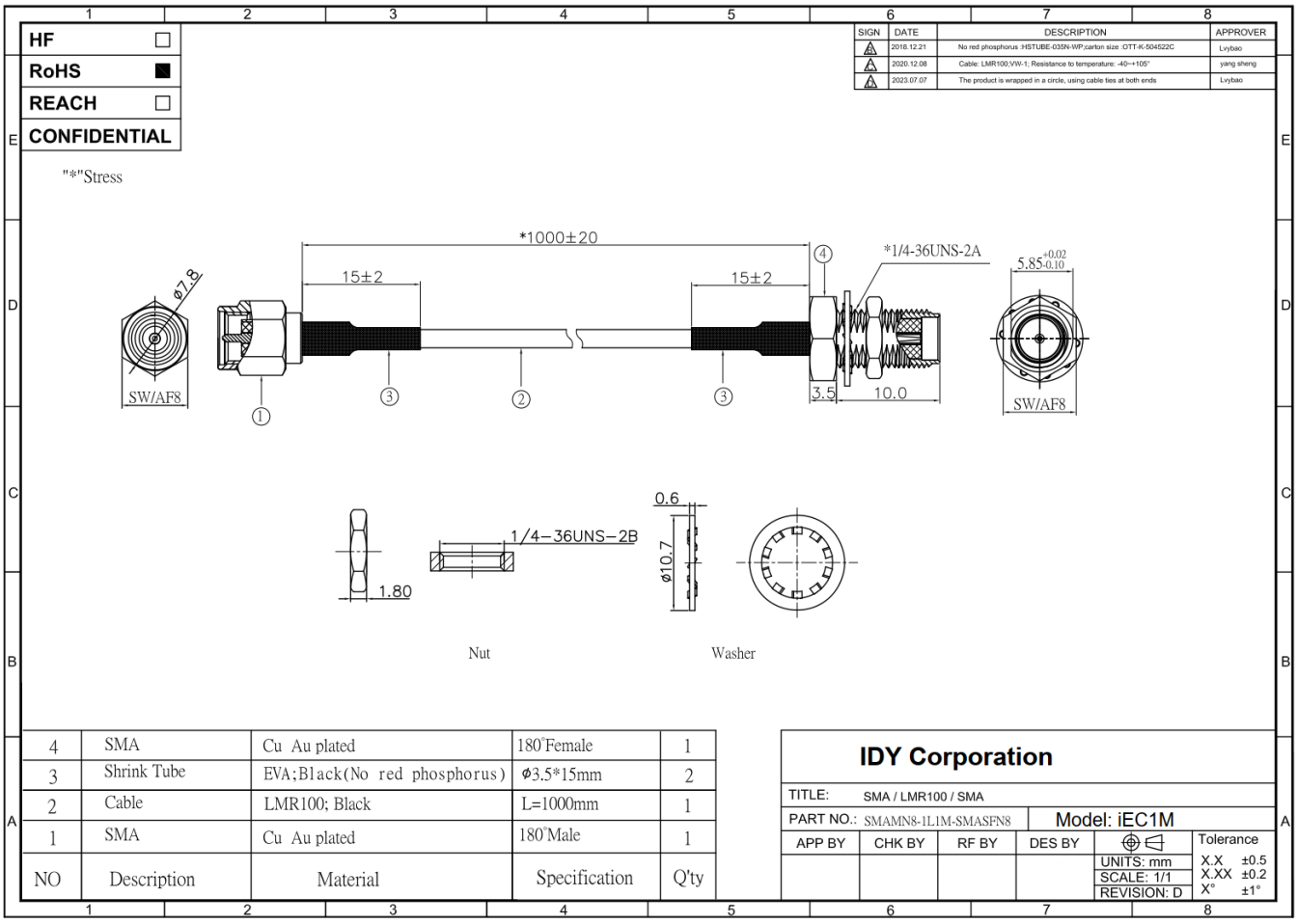
■SWR & Insertion Loss Test Data



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■ 1m 延長ケーブル iEC1M 仕様

＜iEC1M Mechanical Drawings＞



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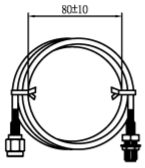
＜iEC1M Packaging Specification＞

Product packaging specification

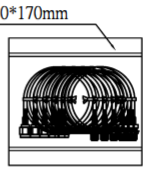
Date：2023.07.07

P/N : SMAMN8-1L1M-SMASFN8 Model : iEC1M	Edition ：D
Product Name :Coaxial Cable	Customer： ALL

一



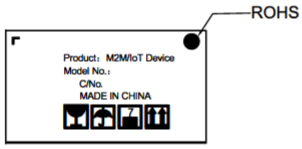
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5PCS / BAG

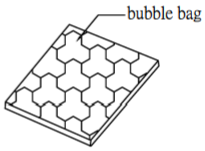
三

SIDE



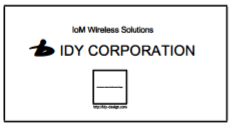
Put a ROHS label on the side of master carton,
fill in the product part number, quantity, net weight and gross weight.

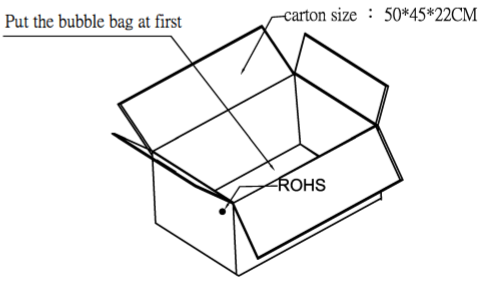
四



五

FRONT



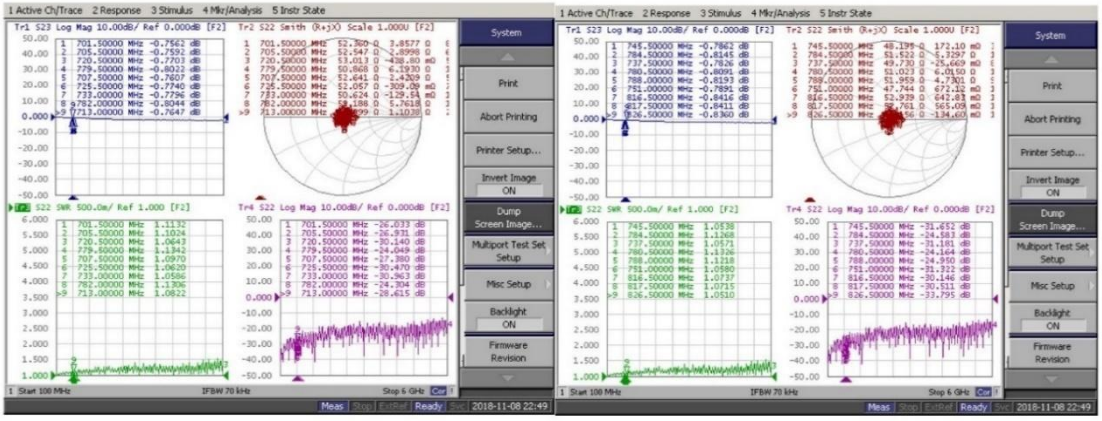


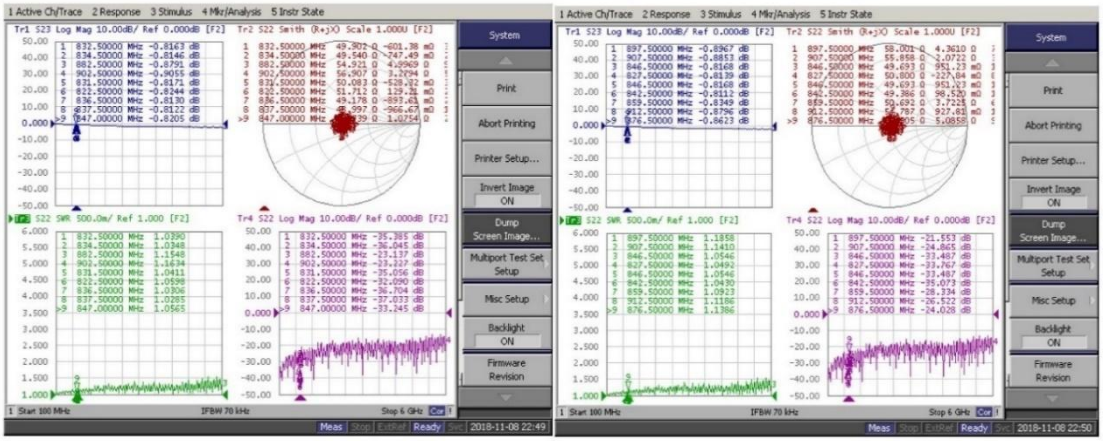
500PCS / CARTON

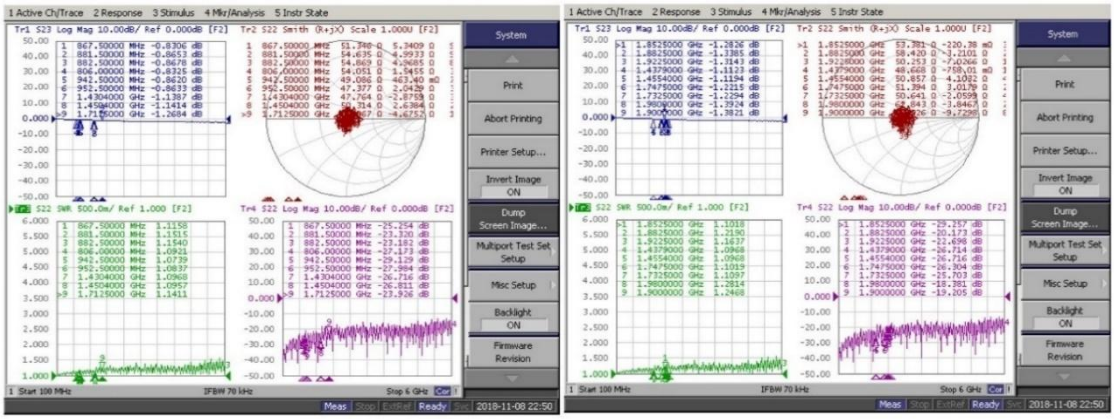
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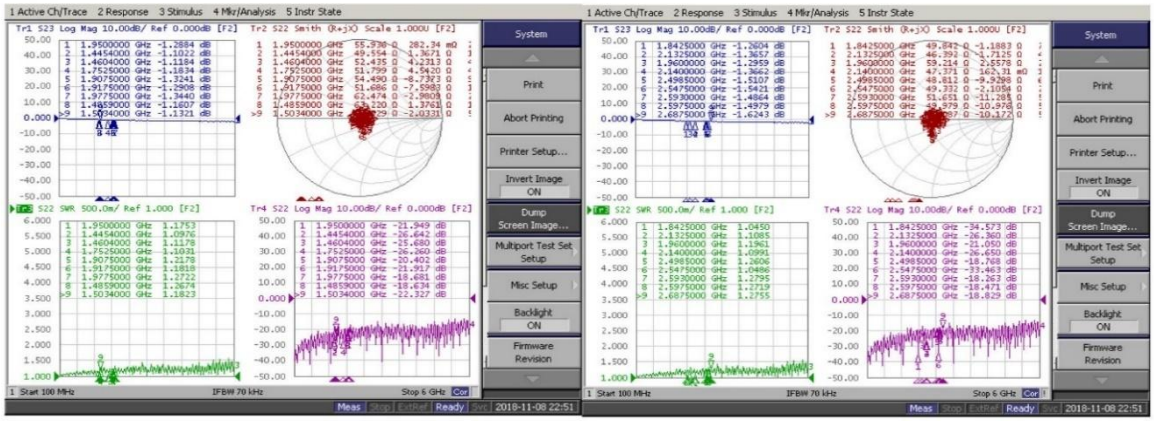
＜iEC1M Test Data＞

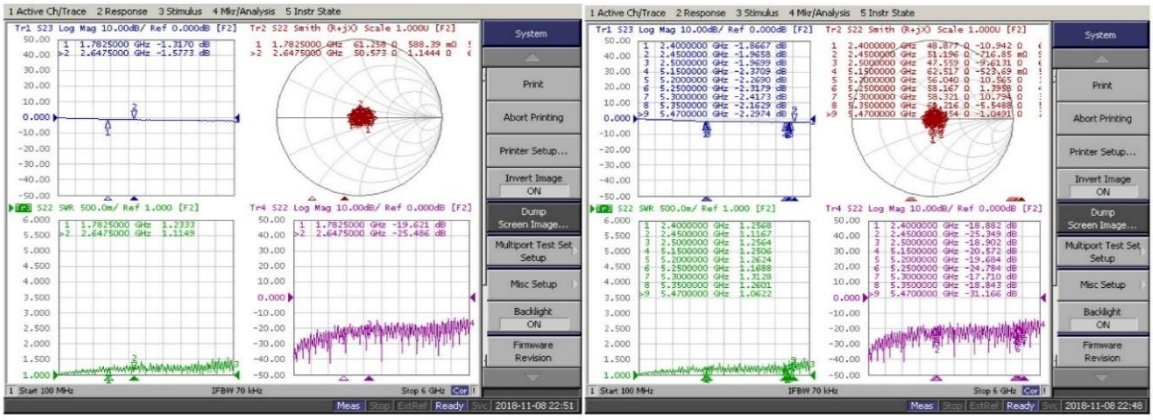


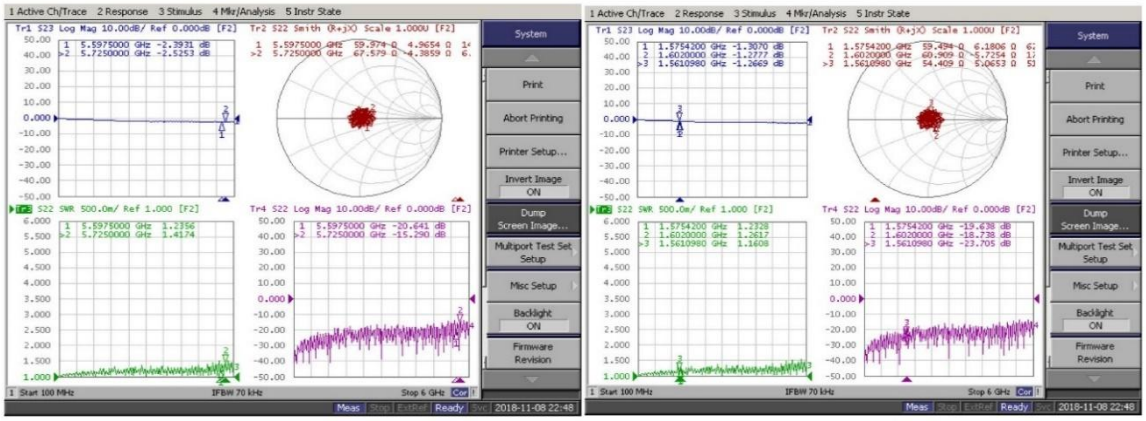




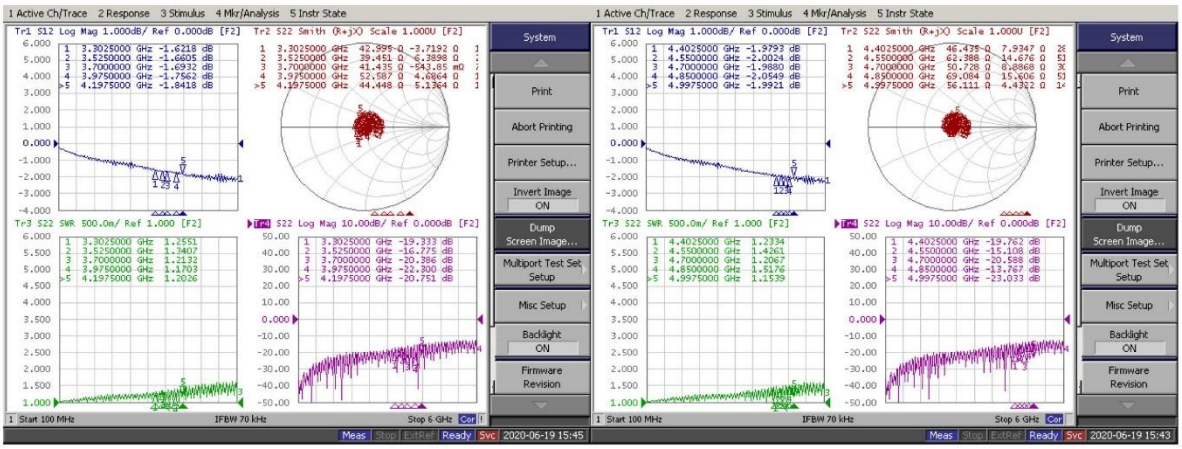
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＜iEC1M Cable Specification＞

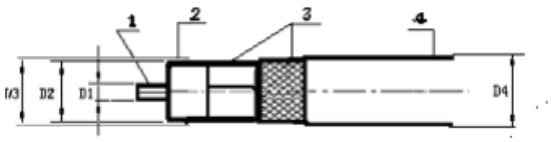
穗格 WWW. SUI RONGCABLE. COM 深圳市穗榕同轴电缆科技有限公司

S.R Code:SR18070201

LMR-100 Coaxial Cable Specification

（**LMR-100** 同轴电缆规格书）

Reference standard:MIL-C-17G Black

Type of coaxial cable: LMR-100, RoHS compliance					
Legend:					
LMR-100 1.Inner conductor 内导体 2. Dielectric: 绝 缘 3.Outer conductor 外导体 4. Jacket White 护套					
Main Electrical properties:					
Characteristic impedance	阻抗	50±2Ohm			
Rated capacitance	电容	100±2 pf/m			
Velocity	速比	66%			
Delay	延时	4.90ns/m			
Operating frequency	工作频率	1~6000MHz			
Attenuation at typical frequencies:（dB/ m）					
100MHz	400MHz	900MHz	1800MHz	2400MHz	3000MHz
0.19	0.48	0.74	1.08	1.25	1.48
VSWR 1~3000MHz	电压驻波比	1.30 Max.			
Mechanical Construction:					
Inner conductor: BC	裸铜线	0.46±0. 01mm			
Dielectric:PE	绝缘 PE	1.52±0. 03mm			
Outer conductor: AP+TC（※）	铝箔+镀锡铜线	2.04±0. 05mm （16*5/0.10mm）			
Jacket :PVC	护套阻燃黑色 PVC （防火等级：VW-1）	2.80±0.10mm			
※ TC-- tinned copper					
Engineering data:					
Maximum Pull Tension Minimum bending radius Operating temperature Reel Length jacket-Marking	最大拉拔力 最小弯曲半径 工作温度 装盘长度 产品标识	38 lbs 27mm -40~+105°C LOW LOSS 100 VW-1 PVC COAXIAL CABLE HYT MICROWAVE SYSTEM/NFC			

SuiRong COAXIAL CABLE Co.,Ltd

制造商:深圳市穗榕同轴电缆科技有限公司
生产地:深圳市龙岗区务地铺清水路清水巷

WWW.SUIRONGCABLE.COM
Tel：+86-755-28217358 Fax+86-755-28217359

2018-07-02

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＜iEC1M RoHS Test＞

SGS TaiBei Network---http://twap.sgs.com/sgsrsts/chn/cheres_tw.asp

SGS Mainland Network---http://rsts.cn.sgs.com/zh-cn/cheres_cn.asp

SGS Korea S. Network---http://rohs.kr.sgs.com/sgsrsts/en/cheres_en.asp

PLS fill out the correct data for search

1.Report Number

2.Report Date(YYYY/MM/DD)
3.Product Name(Input the first 10 figures. Do not include the blank)
4.The graphic presentation checking yard

HSF Datasheet

Part Number：SMAMN8-1L1M-SMASFN8 IDY P/N: iEC1M

Number	Detali Part Number	Detail Name	Material	RoHS Test Results										Report Number	Test Date	Test Name	Test Locale
				Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs	DBP	BBP	DIBP	DEHP				
1	SMA	180°Male 180°Female	CU	N.D.	29790	N.D.	Negative	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	AZT032106150008C-011	2021.07.05	C3604	AZT
			Au Plated	N.D.	31	N.D.	N.D.							SZXEC2101871802	2021.06.28	銅車件電鍍金.	SGS
			PTFE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	A2200357261101001	2020.10.17	PTFE plastics	CTI
2	LMR100	Cable	PVC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC2020811102	2020.11.27	PVC Black	SGS
			PE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC2022021108	2020.12.18	HDPE	SGS
			AL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	YCCT332020060601RZ2	2020.06.06	铝箔聚酯膜麦拉带	YCCT
			BCU	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	TSNEC2002256101	2020.11.30	ELECTRICIAN	SGS
			TCU	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	C210301069002-0	2021.03.05	镀锡线0.15	CPST
3	HSTUBE-035N-WP	Shrink Tub	EVA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC2022443601	2020.12.22	HEAT SHRINKABLE TUBING	SGS

PLS refer the SGS report, fill out the content of Pb, Cd, Hg, Cr6+, PBBs, PBDEs
The content of Pb, Cd, Hg, Cr6+, PBBs, PBDEs is less than 100 ppm in the package. The content of Cd is less than 5 ppm.
According to the EU ROHS directive exemption clause 2015/863/EU Lead as an alloying element in steel containing up to 0,35 % aluminium containing up to 0,4% copper alloy containing up to 4%

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■ 3.5m 延長ケーブル iEC3.5M 仕様

納入仕様書

Model：iEC3.5M

3.5m Extension Cable

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2. Specification / Page 4

3. Characteristics and Reliability Test / Page 5

4. S Parameter Test Data / Page 6

5. Mechanical and Packing Drawing / Page 7 ~ 8

6. Material Description and RoHS Test Report / Page 9 ~ end

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1. Revision History

Revision	Date	Change Notification	Description
1.0	2025.09.29	First Edition	

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2. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	DC~ 6 GHz
Impedance	50 Ohm
V.S.W.R.	<= 1.8
Insertion Loss	4.5 dB
Voltage (breakdown)	> 500V
Insulation Resistance	>= 500 M ohm
B. Mechanical Characteristics	
Pull Test of Connector	>= 3 Kg
Mating Cycles	> 500
C. Environmental	
Operation Temperature	- 40 ˚C ~ + 75 ˚C
Storage Temperature	- 40 ˚C ~ + 80 ˚C

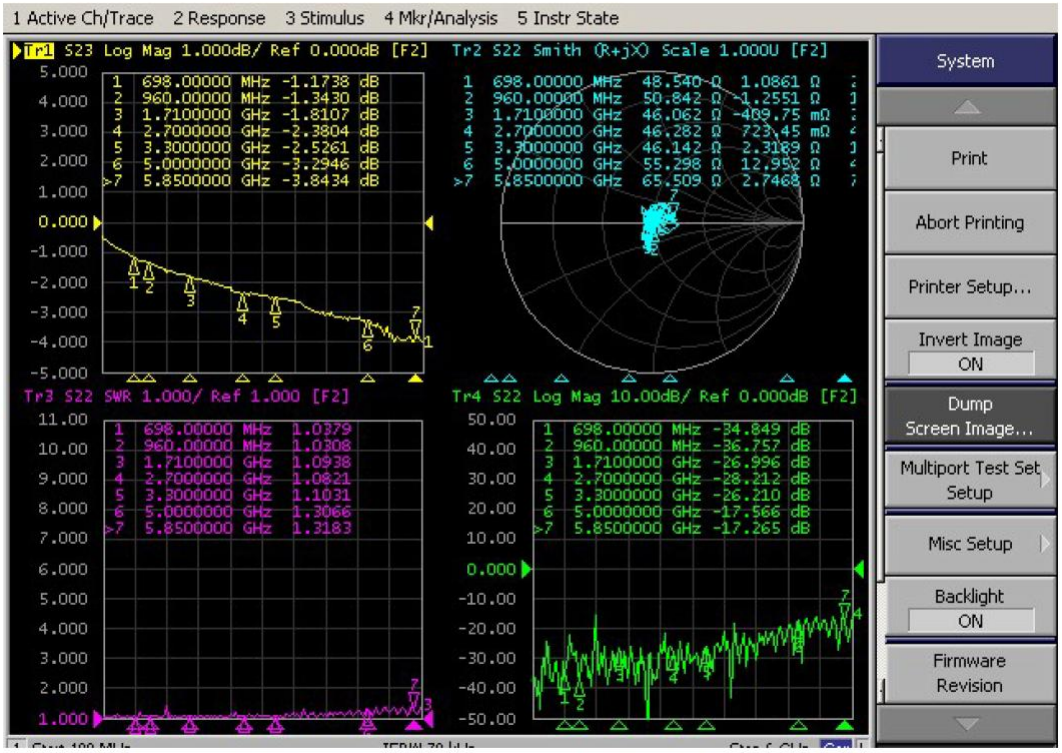
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3. Characteristics and Reliability Test

Test Items 測試項目		Test Condition and Procedure 測試方法	Requirements 要求	Result 結果
C1	V.S.W.R. 電壓駐波比	Set DUT on Network Analyzer; make individual calibration to test 設置網路分析儀參數進行測試	Directive DUT specification 符合待測物規範	PASS
C2	Insertion Loss 插入損失	Set DUT on Network Analyzer; make individual calibration to test 設置網路分析儀參數進行測試	Directive DUT specification 符合待測物規範	PASS
M4	Pull Test 拉力	Holding with individual specification; force applied to axis of terminal .單獨定義產品端子拉力	1. Directive DUT specification 2. Frequency Tol.≤5% 符合待測物規範;頻率偏移≤5%	PASS
M6	Dimension 尺寸	Inspection of dimension, color, material, package, surface process.檢查尺寸,顏色,材料,包裝,表面處理	Directive DUT specification 符合待測物規範	PASS
E2	Salt Spray 鹽霧	GB / T 2423.17-2008 Temp: 35°C; RH: ≥ 95%; NaCl solution: ≥ 5%;Time: 24H 溫度 35°C;濕度≥95%;鹽水濃度≥5%;測試 24H	1. No Visual Damage 2. Frequency Tol.≤5% 無明顯外觀不良;頻率偏移≤5%	PASS
E3	Temperature and Humidity Chamber 恒溫恒濕	GB / T 2423.3-2006 Temp: 80°C / 12 H; -40°C / 12H RH: ≥ 90%; Time: 24H 溫度 80°C 測試 12H 轉-40°C 測試 12H;濕度≥ 90%;時間 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.≤5% 恢復 2H 後, 無明顯外觀不良;頻率偏移≤5%	PASS
E5	Aging test 老化	GB /T 2423.2 - 2008 Temp: 80°C; Time: 24 hours 溫度 80° C, 測試 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.≤5% 無明顯外觀不良;頻率偏移≤5%	PASS
R1	RoHS	With Reference to IEC 62321:2008 with flow chart 參考 IEC 62321 測試流程	Directive RoHS 2011/65/EU 符合 RoHS 2011/65/EU 標準	PASS
R2	PFOS	With Reference to USA EPA 3550C:1996 by LC/MS 參考 USA EPA 3550C 測試流程	Directive RoHS 2006/122/EC 符合 RoHS 2011/65/EU 標準	PASS

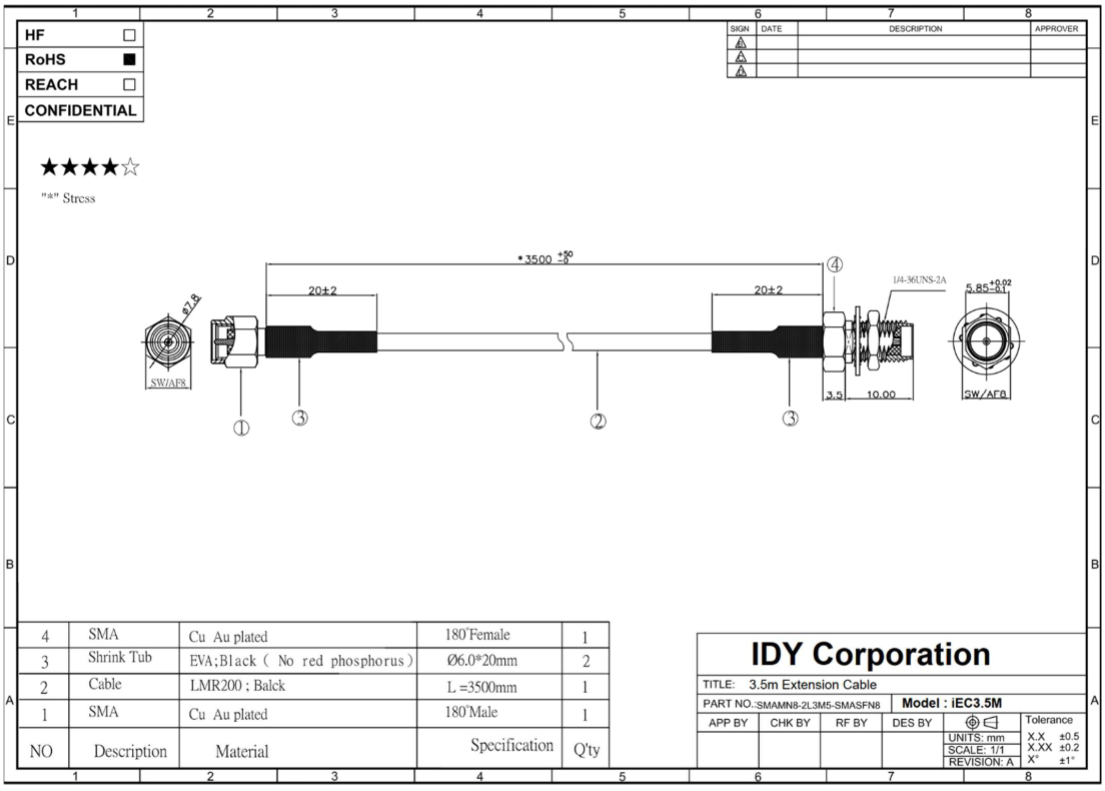
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4. S Parameter Test Data



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5. Mechanical and Packing Drawing



NO	Description	Material	Specification	Q'ty
4	SMA	Cu Au plated	180°Female	1
3	Shrink Tub	EVA;Black (No red phosphorus)	Ø6.0*20mm	2
2	Cable	LMR200 ; Balck	L =3500mm	1
1	SMA	Cu Au plated	180°Male	1

IDY Corporation

TITLE: 3.5m Extension Cable

PART NO.:SMAMN8-2L3M5-SMASFN8 | Model : iEC3.5M

APP BY	CHK BY	RF BY	DES BY	Tolerance
				UNITS: mm X.X ±0.5
				SCALE: 1/1 X.XX ±0.2
				REVISION: A X° ±1°

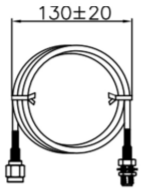
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PACKING CRITERION

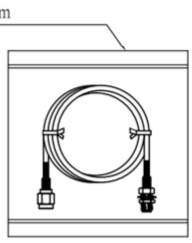
Date:2025.09.10

Part Number : iEC3.5M	Revision :A
Name: Cable	

一

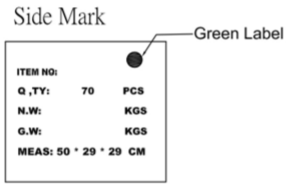


二

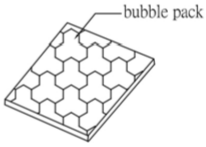


1PCS/per Bag

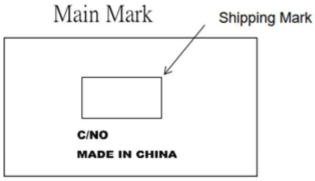
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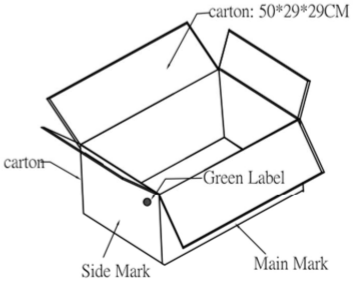


四



五





70pcs per Carton

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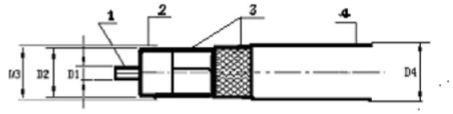
6. Material Description and RoHS Test Report

穗格 WWW.SUIRONGCABLE.COM 深圳市穗榕同轴电缆科技有限公司

S.R Code: 19082702

LMR-200 Coaxial Cable Specification

（ **LMR-200** 同轴电缆规格书）

Type of coaxial cable: LMR-200					
Legend:					
LMR-200: 1.Inner conductor 内导体 2. Insulation 电缆芯线 3.Outer conductor 外导体 4. Jacket 护套					
Main Electrical properties:					
Characteristic impedance	阻抗			50±2Ohm	
Rated capacitance	电容			78±2 pf/m	
Velocity	速比			81%	
Operating frequency	工作频率			10~3000MHz	
Attenuation at typical frequencies:（dB/m）					
400MHz	900 MHz	1500 MHz	2100MHz	3000MHz	6000MHz
0.220	0.341	0.450	0.551	0.639	1.32
VSWR 10~3000MHz		电压驻波比		1.30Max.	
Mechanical Construction:					
Inner conductor: BC		裸铜线		1.12±0.005mm	
Dielectric:foam PE		绝缘 LLDPE		2.95±0.10mm	
Outer conductor: APA+TC		铝塑覆合箔＋镀锡铜线		3.70±0.12mm（16*6/0.12mm）	
Jacket : PVC Black		护套黑色 PVC		5.0±0.10mm	
Engineering data:					
Maximum Pull Tension		最大拉拔力		42 Ibs	
Minimum bending radius		最小弯曲半径		50mm	
Operating temperature		工作温度		-25~+80°C	
Reel Length		装盘长度		/	
jacket-Marking		产品标识		LOW LOSS 200 PVC COAXIAL CABLE HYT MICROWAVE SYSTEM/NFC	

SuiRong COAXIAL CABLE Co.,Ltd

制造商:深圳市穗榕同轴电缆科技有限公司
生产地:深圳市龙岗区龙西务地铺清水路清水巷 40 号

WWW.SUIRONGCABLE.COM
Tel：+86-755-28217358 Fax+86-755-28217359

2019-08-27

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SGS 台灣網站 → http://twap.sgs.com/sgsrsts/chn/cheres_tw.asp
SGS 大陸網站 → http://rsts.cn.sgs.com/chn/cheres_cn.asp
SGS 韓國網站 → http://rohs.kr.sgs.com/sgsrsts/en/cheres_en.asp

請輸入以下報告正確資料及檢查碼以便查核
1. 報告編號
2. 報告日期 (YYYY/MM/DD)
3. 產品名稱 (輸入前 10 個字不含空白)
4. 圖示檢查碼 (依指示畫面)

物料中HSF對象物質含量調查表

物料名稱：SMAMN8-2L3M5-SMASFN8 (iEC3.5M)

序號	物料型號	物料各構成名稱	各構成物料的材質	測試報告裡RoHS對應物質測試結果										檢測報告編號	測試日期	測試名稱	測試機構名稱
				Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs	DBP	BBP	DIBP	DEHP				
1	SMA	SMA Male SMA Female	銅	43	28146	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANPC25009215005	2025.04.30	Brass rod (C3604)	SGS
2			鍍金	N.D.	87	N.D.	N.D.							SZXEC25002063401	2025.06.16	Gold plating	SGS
3		Insulator	PTFE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	TAOPC24009783803	2024.12.13	TFE MOLDING POWDEF	SGS
4	HSTUBE	HSTUBE	EVA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC25012572003	2025.06.05	HEAT SHRINKABLE TUBING	SGS
5	LMR200	Cable	PVC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	SZXEC25001785002	2025.05.28	PVC 胶粒 红色 白色 黑色	SGS
6			PE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC24022240617	2024.10.22	PE	SGS
7			裸铜	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	SZXEC25000424913	2025.02.27	Copper wire	SGS
8			镀锡铜	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	SZXEC25000424905	2025.02.27	Tinned copper wire	SGS
9			AL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	NGBEC25000789619	2025.02.21	aluminium polyester foil	SGS

根據測試報告如實填寫鉛、鎘、汞、六價鉻、PBBs和PBDEs六項禁用物質的含量
包裝材料中鉛、鎘、汞、六價鉻總含量不超過100ppm，鎘的允許濃度為5ppm
歐盟ROHS指令豁免條款2015/863/EU，鋼中合金元素中的鉛含量達0.35%、鋁含量達0.4%、銅合金中的鉛含量達4%

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■ 12m 延長ケーブル iEC12M 仕様

Product Number: iEC12M
Product Name: Coaxial Cable

Specification For Approval

Date: 2021 / 09 / 13

File No.: 210802001

Version: 1.2

IDY P/N : iEC12M

R/N : SMAMN8-2L12M-SMASFN8

Description : Coaxial Cable

Checked By:
Approved By:

Page 1

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Product Number: iEC12M
Product Name: Coaxial Cable

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2. **Specification / Page 4**
3. **Characteristics and Reliability Test / Page 5**
4. **S Parameter Test Data / Page 6 ~ 13**
5. **Mechanical and Packing Drawing / Page 14 ~ 15**
6. **Material Description and RoHS Test Report / Page 16 ~ end**

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Product Number: iEC12M
Product Name: Coaxial Cable

1. Revision History

Revision	Date	Change Notification	Description
1.0	2020.09.25	Issued	
1.1	2021.08.02	Added Data	Increased the measurement frequency.
1.2	2021.09.13	Changed Packaging Specifications	The packaging specifications have been changed to the English version.

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Product Number: iEC12M
Product Name: Coaxial Cable

2. Specification

Sample Photo	
	
A. Electrical Characteristics	
Frequency	701~713MHz / 745~826 MHz 832~847MHz / 876~897MHz 867~1712MHz / 1852~1900MHz 1445~1977MHz / 1842~2687MHz 1782~2647MHz / 2400~5470MHz 3302~4197 MHz / 4402~4997 MHz 5597~5725 MHz / 1575~1561MHz
Impedance	50 Ohm
Insertion Loss	>= -4.0 dB @ 701~713MHz >= -4.0 dB @745~826 MHz >= -4.2 dB @832~847MHz >= -4.2 dB @876~897MHz >= -4.2 dB @867~952 MHz >= -5.6 dB @1430~1712MHz >= -5.5 dB @1575~1561MHz >= -6.3 dB @1852~1900MHz >= -6.3 dB @1445~1977MHz >= -8.0 dB @1842~2687MHz >= -7.0 dB @1782~2647MHz >= -12 dB @2400~5470MHz >= -10 dB @3302~4197 MHz >= -12 dB @4402~4997 MHz >= -12 dB @5597~5725 MHz
Voltage (breakdown)	> 500V
Insulation Resistance	>= 500 M ohm
B. Mechanical Characteristics	
Pull Test of Connector	>= 5Kg
Mating Cycles	> 500

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Product Number: iEC12M
Product Name: Coaxial Cable

C. Environmental	
Operation Temperature	- 25 ˚C ~ + 70 ˚C
Storage Temperature	- 30 ˚C ~ + 80 ˚C

3. Characteristics and Reliability Test

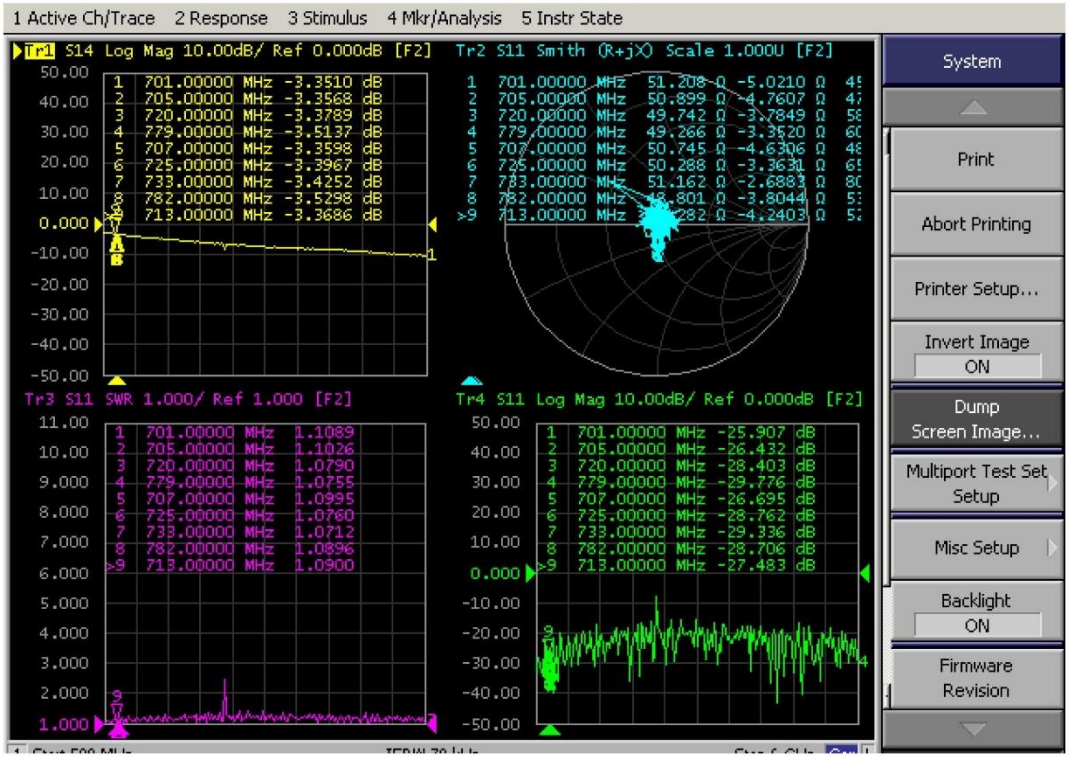
Test Items		Test Condition and Procedure	Requirements	Result
C1	V.S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification	PASS
C2	Insertion Loss	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification	PASS
M4	Pull Test	Holding with individual specification; force applied to axis of terminal.	1. Directive DUT specification 2. Frequency Tol.≤5%	PASS
M6	Dimension	Inspection of dimension, color, material, package, surface process.	Directive DUT specification	PASS
E2	Salt Spray	GB / T 2423.17-2008 Temp: 35°C; RH: ≥ 95%; NaCl solution: ≥ 5%;Time: 24H	1. No Visual Damage 2. Frequency Tol.≤5%	PASS
E3	Temperature and Humidity Chamber	GB / T 2423.3-2006 Temp: 80°C / 12 H; -40°C / 12H RH: ≥ 90%; Time: 24H	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.≤5%	PASS
E5	Aging test	GB /T 2423.2 - 2008 Temp: 80°C; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.≤5%	PASS
R1	RoHS	With Reference to IEC 62321:2008 with flow chart	Directive RoHS 2015/863/EU	PASS

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Product Number: iEC12M
Product Name: Coaxial Cable

4. S Parameter Test Data

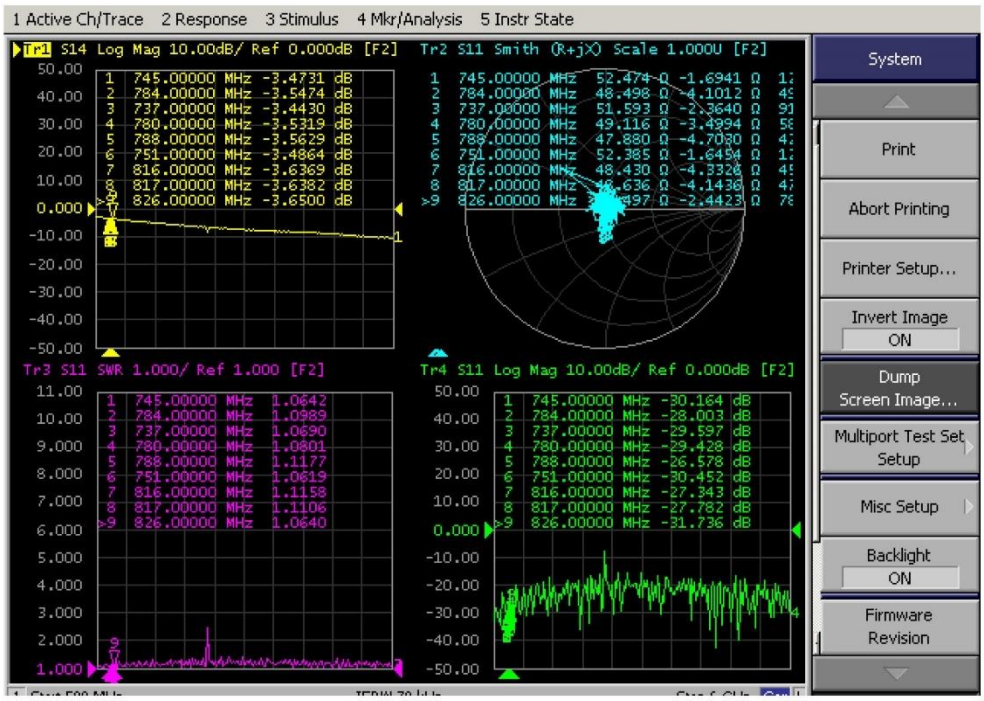
701~713MHz



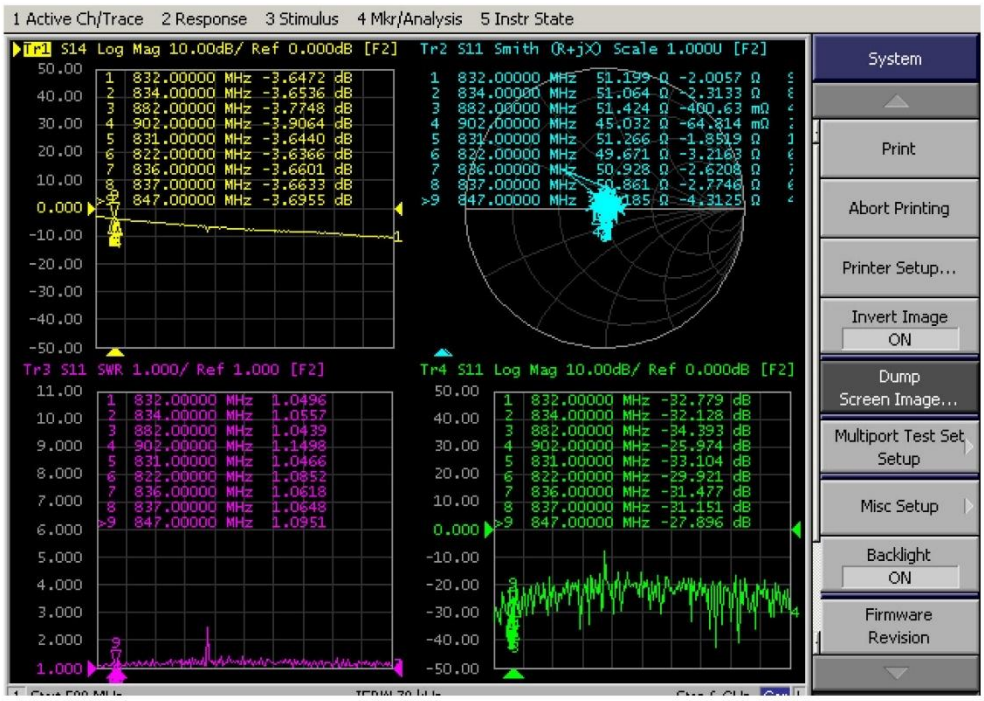
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Product Number: iEC12M
Product Name: Coaxial Cable

745~826MHz



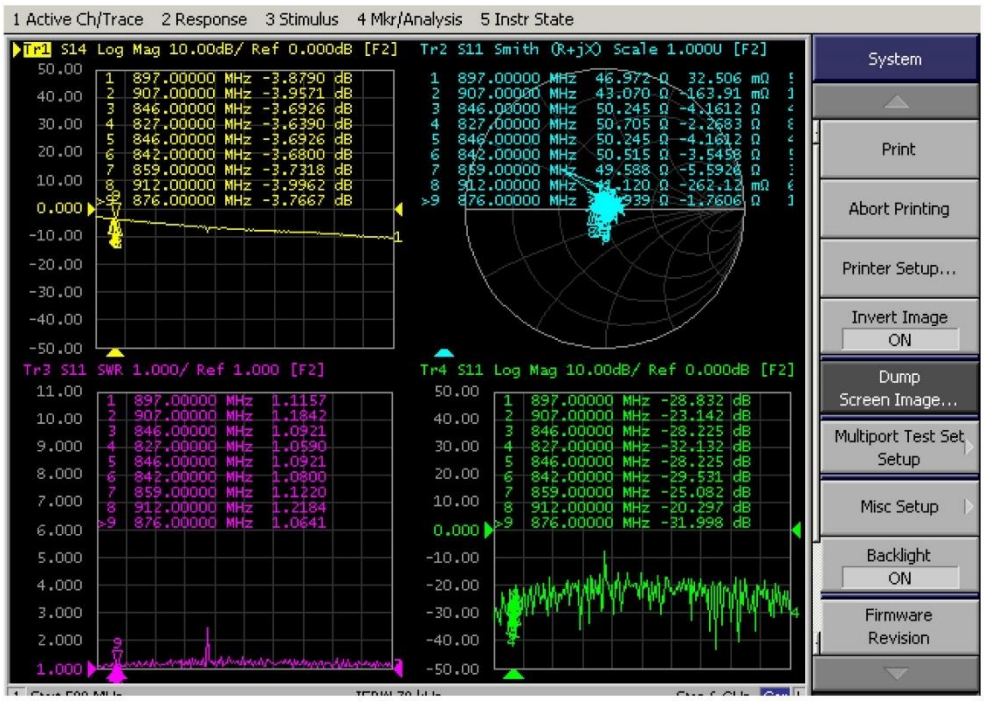
832~847MHz



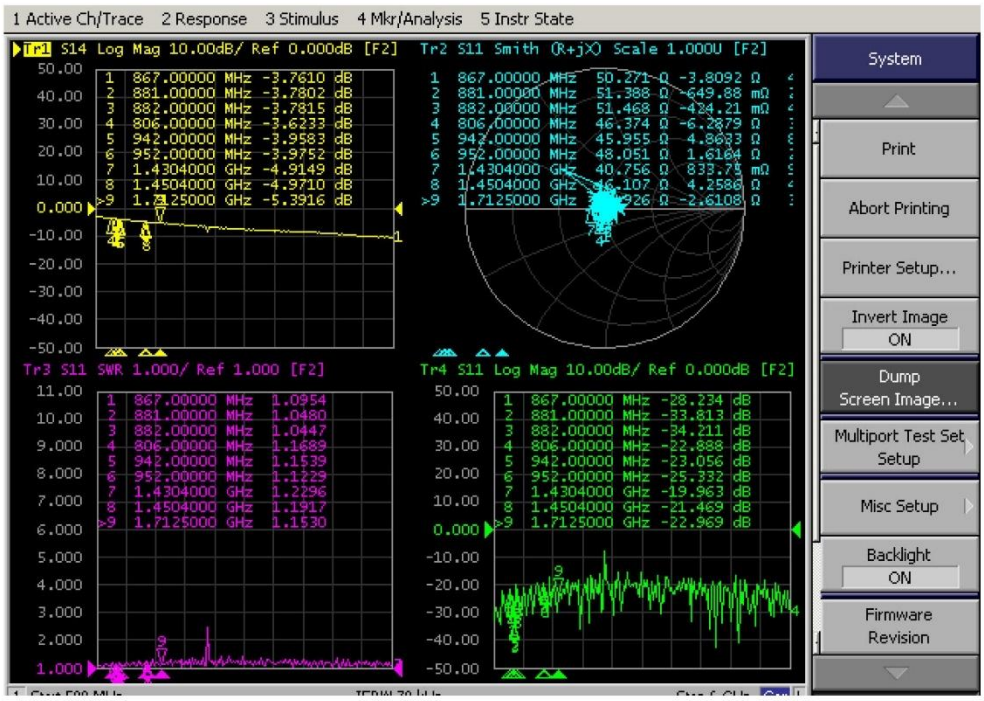
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Product Number: iEC12M
Product Name: Coaxial Cable

876~897MHz



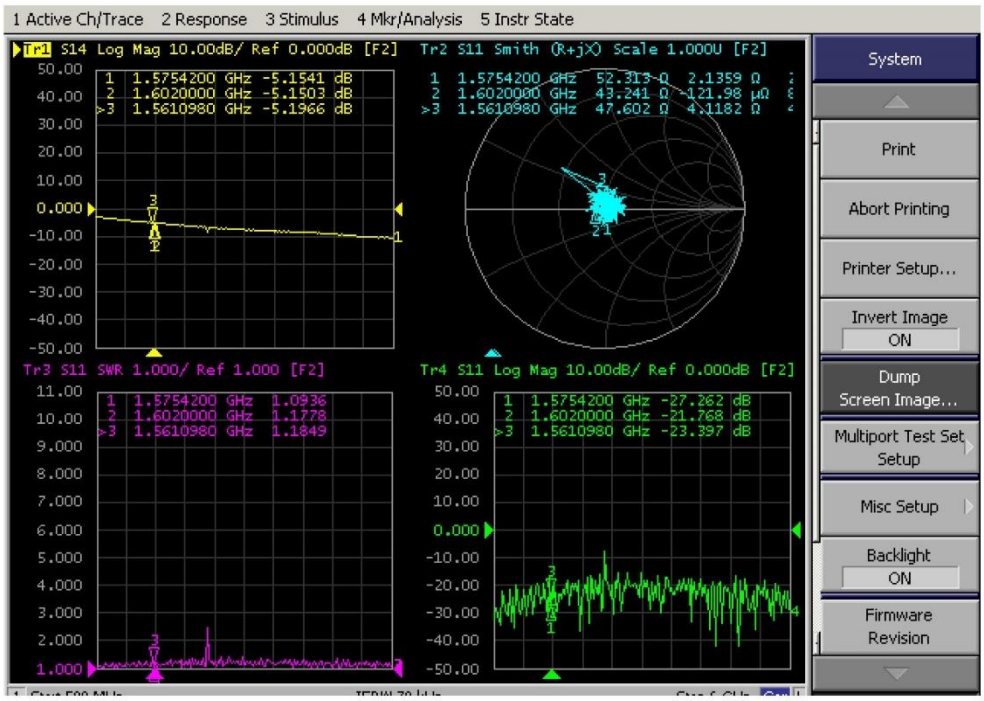
867~1712MHz



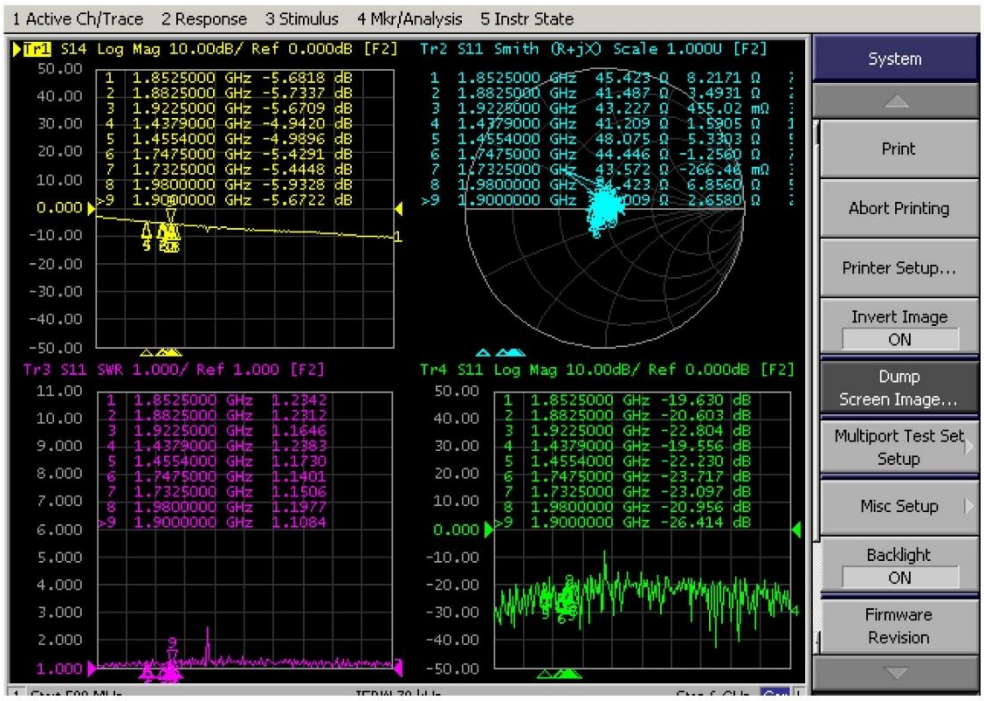
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Product Number: iEC12M
Product Name: Coaxial Cable

1575~1561MHz



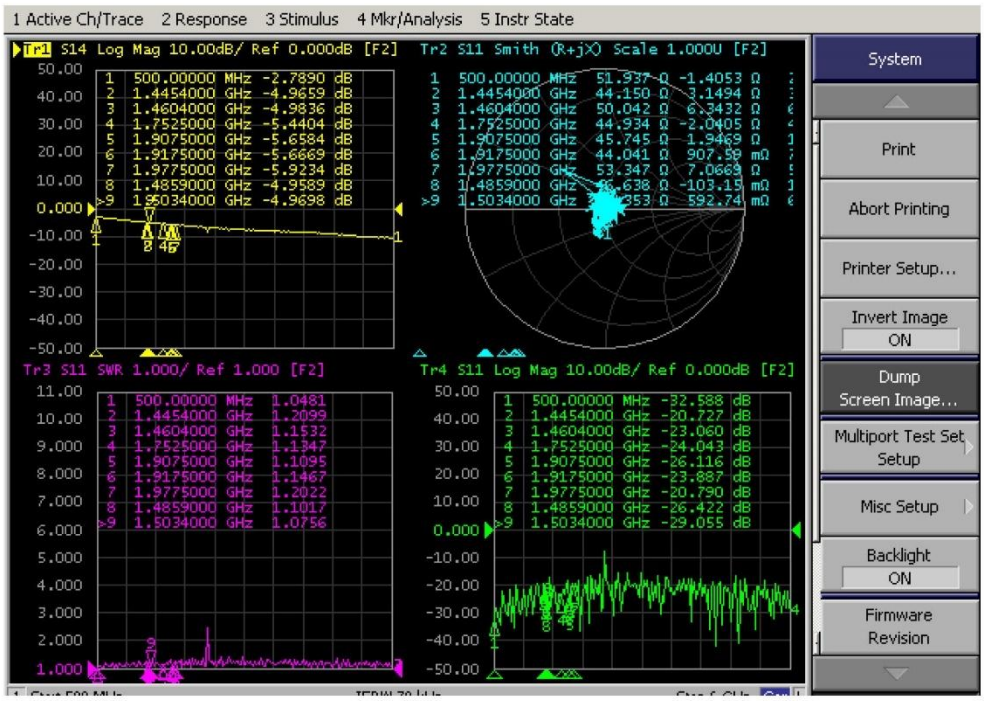
1852~1900MHz



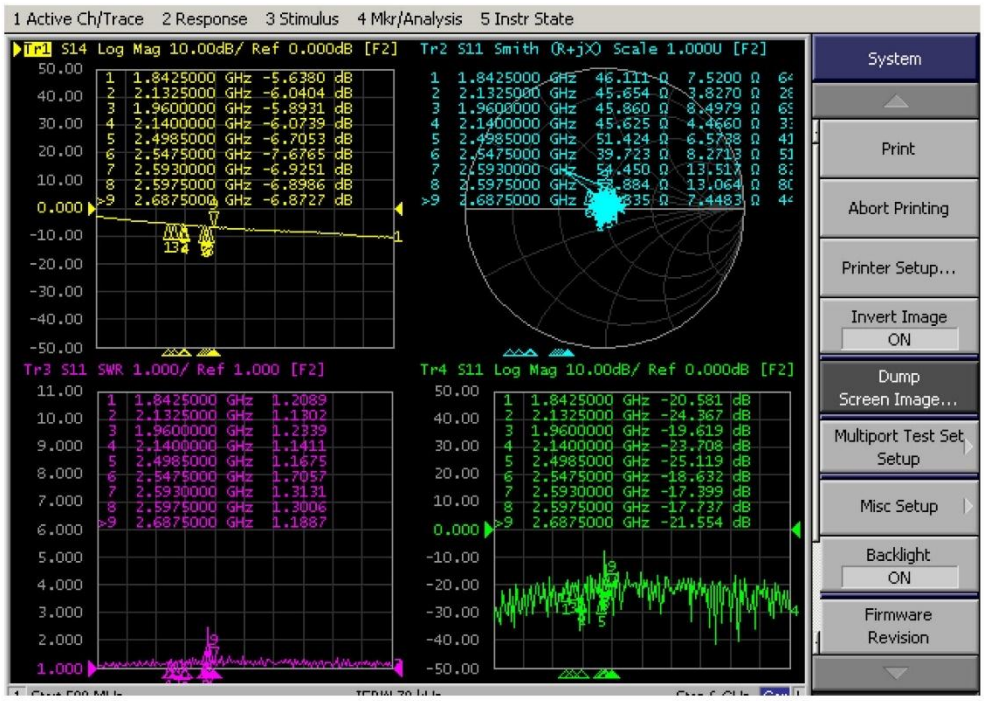
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Product Number: iEC12M
Product Name: Coaxial Cable

1445~1977MHz



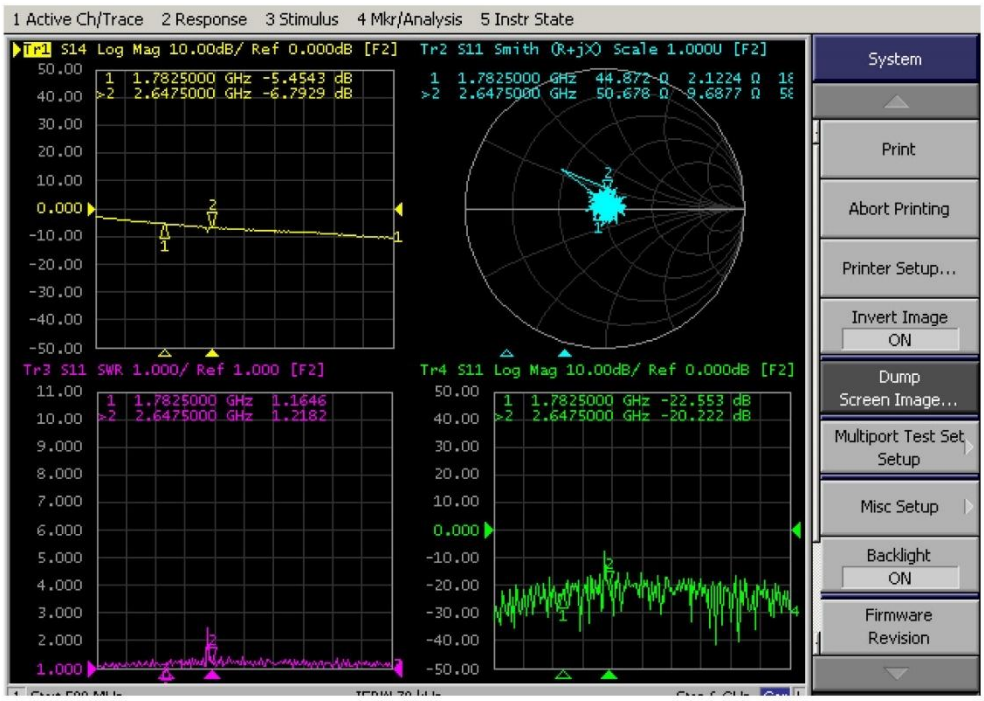
1842~2687MHz



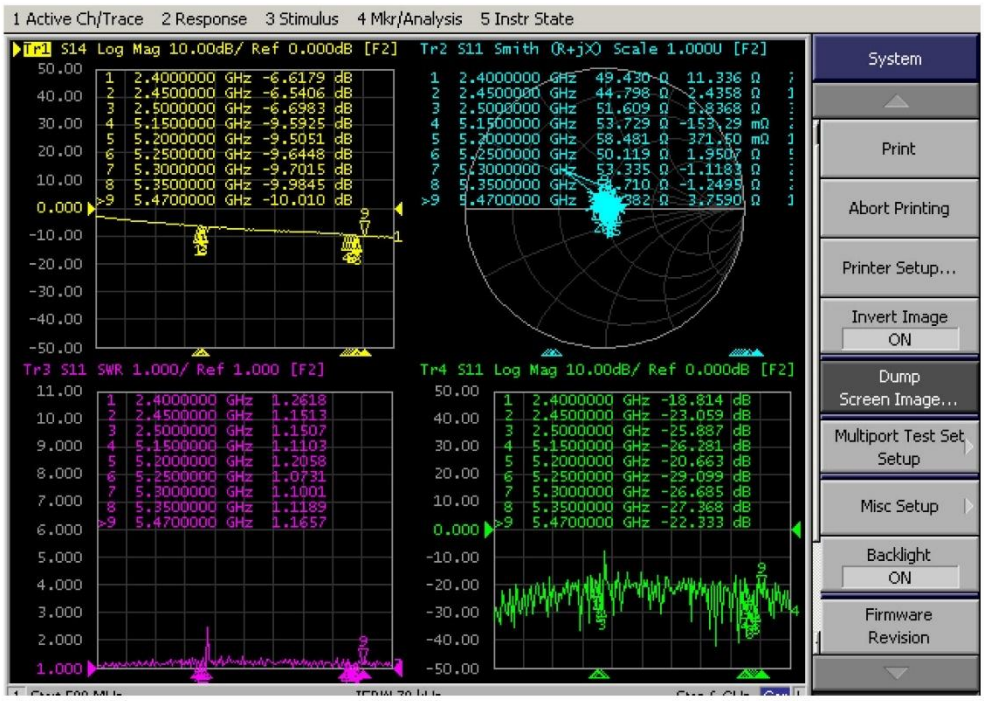
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Product Number: iEC12M
Product Name: Coaxial Cable

1782~2647MHz



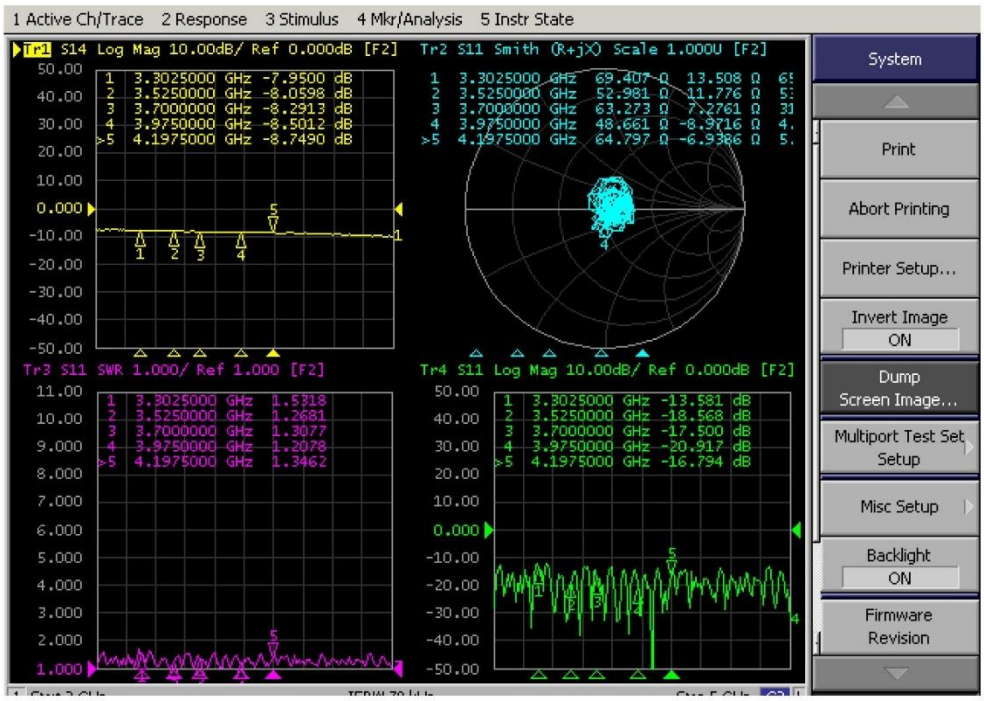
2400~5470MHz



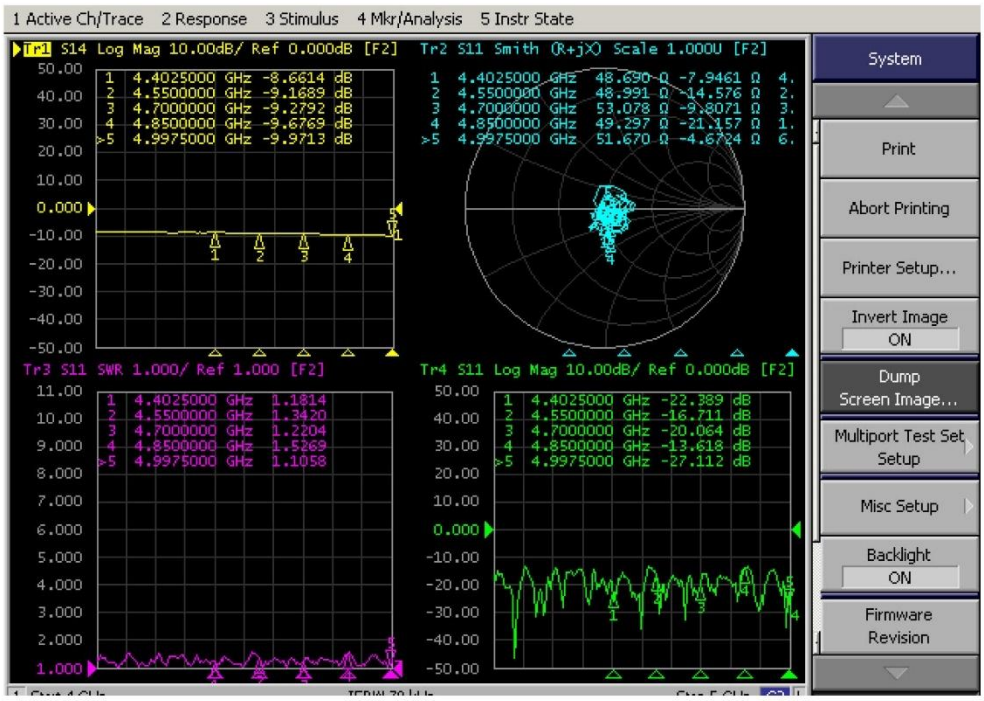
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Product Number: iEC12M
Product Name: Coaxial Cable

3302~4197 MHz



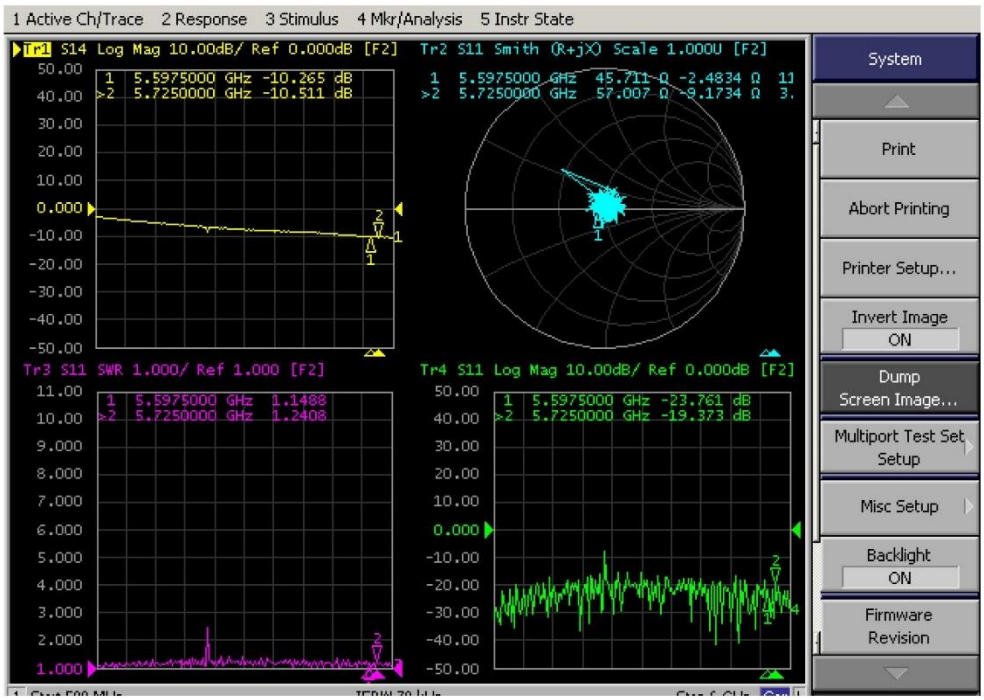
4402~4997 MHz



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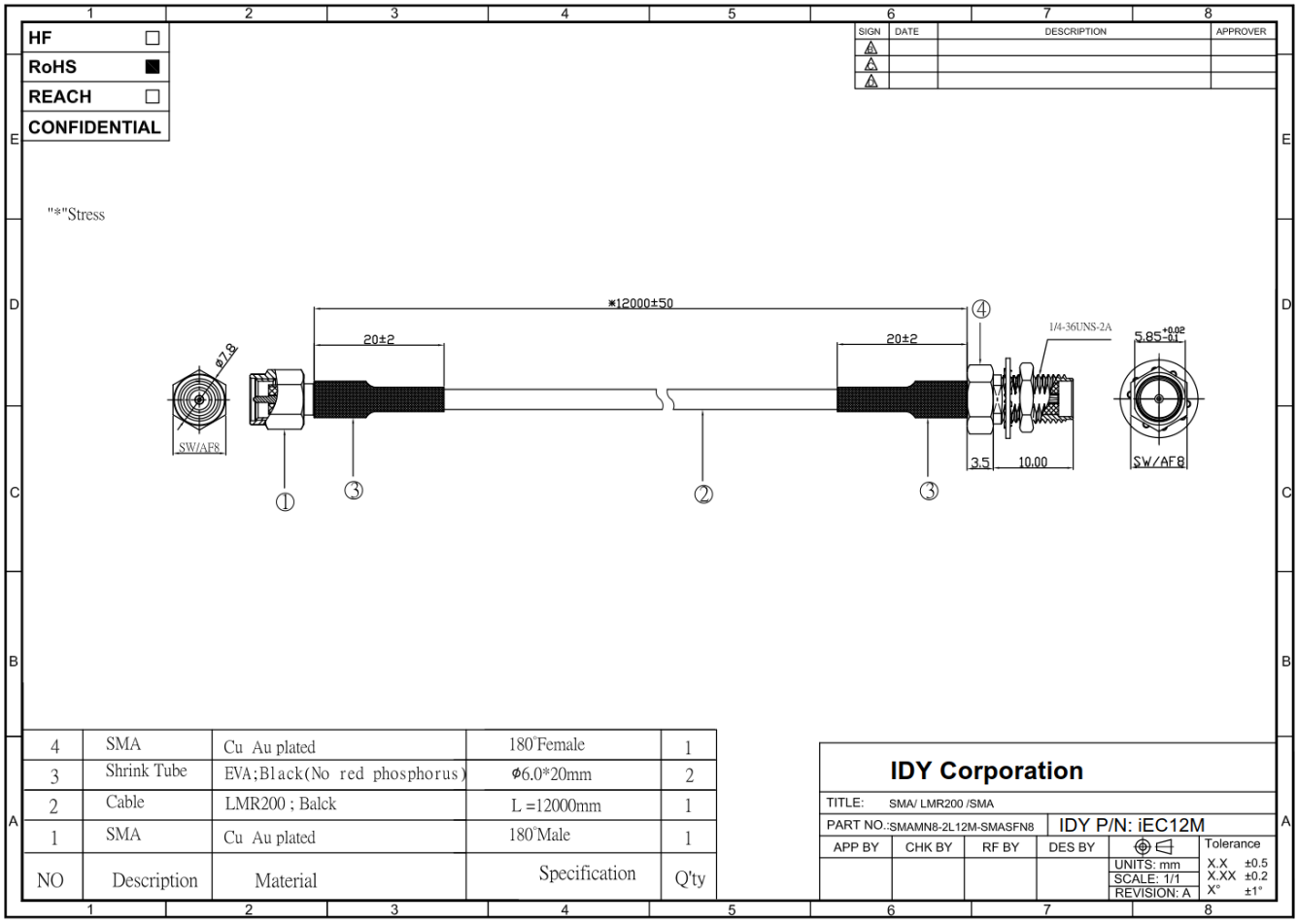
Product Number: iEC12M
Product Name: Coaxial Cable

5597~5725MHz



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＜iEC12M Mechanical Drawings＞



NO	Description	Material	Specification	Q'ty
4	SMA	Cu Au plated	180°Female	1
3	Shrink Tube	EVA;Black(No red phosphorus)	Φ6.0*20mm	2
2	Cable	LMR200 ; Balck	L =12000mm	1
1	SMA	Cu Au plated	180°Male	1

IDY Corporation

TITLE: SMA/ LMR200 /SMA

PART NO.:SMAMN8-2L12M-SMASFN8 IDY P/N: iEC12M

APP BY	CHK BY	RF BY	DES BY	Tolerance
				UNITS: mm X.X ±0.5
				SCALE: 1/1 X.XX ±0.2
				REVISION: A X° ±1°

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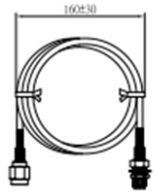
＜iEC12M Packaging Specification＞

Product packaging specification

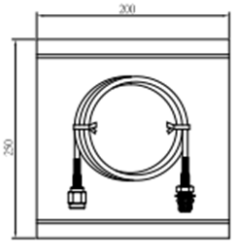
Date：2021.08.05 IDY P/N: iEC12M page: 1 of 1

Product NO : SMAMN8-2L12M-SMASFN8	Edition：A
Product Name :Coaxial Cable	Customer： ALL

1.



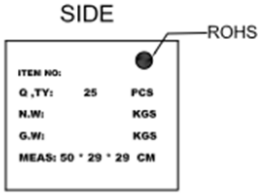
2.



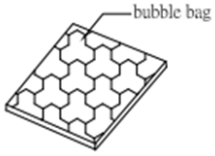
1 PCS / BAG

3.

SIDE



4.

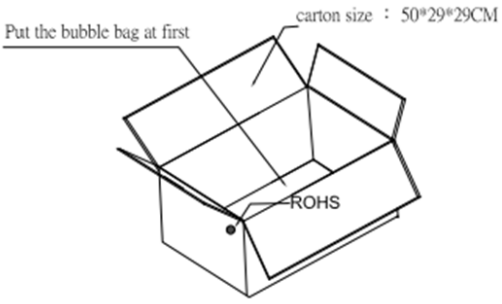


Put a ROHS label on the side of master carton,
fill in the product part number, quantity, net weight and gross weight.

5.

FRONT





25PCS / CARTON

APPROVED BY： _____ CHECKED BY： _____ DESIDNED BY： _____

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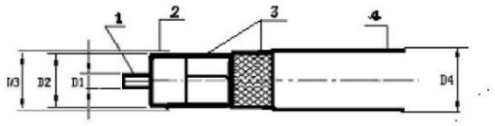
＜iEC12M Cable Specification＞

穗 榕 WWW.SUIRONGCABLE.COM 深圳市穗榕同轴电缆科技有限公司

S.R Code: 18040705

R-CB-LMR-200 Coaxial Cable Specification

（ **LMR-200** 同轴电缆规格书）

Type of coaxial cable: LMR-200				
Legend:				
LMR-200: 1.Inner conductor 内导体 2. Insulation 电缆芯线 3.Outer conductor 外导体 4. Jacket 护套				
Main Electrical properties:				
Characteristic impedance	阻抗	50±2Ohm		
Rated capacitance	电容	78±2 pf/m		
Velocity	速比	81%		
Operating frequency	工作频率	10~3000MHz		
Attenuation at typical frequencies:（dB/m） Remarks: We confirmed that typical frequencies can be up to 6000MHz				
400MHz	900 MHz	1500 MHz	2100MHz	3000MHz
0.220	0.341	0.450	0.551	0.639
VSWR 10~3000MHz	电压驻波比	1.30Max.		
Mechanical Construction:				
Inner conductor: BC	裸铜线	1.12±0. 005mm		
Dielectric:foam PE	绝缘 FPE	2.95±0. 10mm		
Outer conductor: APA+TC	铝塑覆合箔＋镀锡铜线	3.70±0. 12mm（16*6/0.12mm）		
Jacket : PVC Black	护套黑色 PVC	5.0±0.10mm		
Engineering data:				
Maximum Pull Tension	最大拉拔力	42 lbs		
Minimum bending radius	最小弯曲半径	50mm		
Operating temperature	工作温度	-25~+70°C		
Reel Length	装盘长度	/		
jacket-Marking	产品标识	LOW LOSS 200 PVC HYT CABLE MICROWAVE SYSTEM/NFC		

SuiRong COAXIAL CABLE Co.,Ltd

制造商:深圳市穗榕同轴电缆科技有限公司
生产地:深圳市龙岗区龙西务地铺清水路清水巷 40 号

WWW.SUIRONGCABLE.COM
Tel：+86-755-28217358 Fax+86-755-28217359

2018-04-07

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＜iEC12M RoHS Test＞

SGS 台灣網站 → http://twap.sgs.com/sgsrsts/chn/cheres_tw.asp
SGS 大陸網站 → http://rsts.cn.sgs.com/chn/cheres_cn.asp
SGS 韓國網站 → http://rohs.kr.sgs.com/sgsrsts/en/cheres_en.asp

請輸入以下報告正確資料及檢查碼以便查核
1. 報告編號
2. 報告日期 (YYYY/MM/DD)
3. 產品名稱 (輸入前 10 個字不含空白)
4. 圖示檢查碼 (依指示畫面)

填表：	
部門：	
職務：	

物料中HSF對象物質含量調查表

物料名稱：SMAMN8-2L12M-SMASFN8 (iEC12M)

序號	物料型號	物料各構成名稱	各構成物料的材質	測試報告裡RoHS2.0對應物質測試結果										檢測報告編號	測試日期	測試名稱	測試機構名稱
				Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs	DBP	BBP	DIBP	DEHP				
1	SMA	180° Female 180°Male	銅	39	32915	N.D.	N.D.							CANML2109847002	2021.06.11	黃銅棒（C3604）	SGS
			鍍金	N.D.	31	N.D.	N.D.							SZXEC2101871802	2021.06.28	銅車件電鍍金.	SGS
2	LMR200	Cable	PVC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC2020811102	2020.11.27	PVC Black	SGS
			PE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC2022021108	2020.12.18	HDPE	SGS
			AL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	YCCT332020060601RZ2	2020.06.06	铝箔聚酯膜麦拉带	YCCT
			裸銅	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	TSNEC2002256101	2020.11.30	ELECTRICIAN	SGS
			镀锡铜	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	C210301069002-0	2021.03.05	镀锡线0.15	CPST
3	Shrink Tub	EVA	EVA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC2022443601	2020.12.22	HEAT SHRINKABLE TUBING	SGS

根據測試報告如實填寫鉛、鎘、汞、六價鉻、PBBs和PBDEs六項禁用物質的含量
包裝材料中鉛、鎘、汞、六價鉻總含量不超過100ppm，鎘的允許濃度為5ppm
歐盟ROHS指令豁免條款2015/863/EU、鋼中合金元素中的鉛含量达0.35%、铝含量达0.4%、铜合金中的铅含量达4%

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○ お問い合わせ

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