

適用

本仕様書は株式会社 IDY(以下、IDY)が W50-S-V3 に追加する仕様であり、IDY が供給する W50-S-V3-I 及び W50-S-V3-I-MB5 にのみ適用される。

IDY が供給する本仕様に準拠したアンテナは 3G/LTE/Wimax/Wimax2+通信モジュールに接続するものである。

1. 仕様

- ・ 型名 W50-S-V3-I (アンテナ本体のみ)
W50-S-V3-I-MB5 (基台 BS43D05BSM 付属)

※その他仕様は W50-S-V3 及び BS43D05BSM に準拠

2. 特性と信頼性試験

- ・ W50-S-V3 及び BS43D05BSM に準拠

3. 外観仕様

- ・ W50-S-V3 及び BS43D05BSM に準拠

4. シール仕様

- ・ 型名、ロットについては W50-S-V3 に準拠

IDY 供給品については下記のシール(サイズ:25mm×7mm)をアンテナ本体またはビニール袋に貼付

◆LTE 用



◆Wimax/Wimax2+用



5. 梱包仕様

- ・ W50-S-V3 に準拠

○ お問い合わせ



株式会社IDY

〒101-0043

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ANTENNA SPECIFICATIONS FOR APPROVAL

1 GENERAL DESCRIPTION

- 1.1 Type No. : W50-S-V3-I
1.2 Customer P/N :

2 DESCRIPTION & APPLICATION

This antenna assembly is designed for use in **704-960/1427.9-1510.9/1710-2170/2400-2690MHz**

3 ELECTRICAL CHARACTERISTICS

- 3.1 Frequency Rang: 704-960/1427.9-1510.9/1710-2170/2400-2690MHz
3.2 V.S.W.R: < 3.0
3.3 Impedance: 50 OHM
3.4 Type of Radiation: Omni-directional
3.5 Polarization: Vertical
3.6 Gain: 704-960 ==> 1dBi
1427.9-1510.9==> 0-1dBi
1710-2170==> 2dBi
2400-2690MHz==> 2dBi
3.7 Connector: SMA Male (Swivel) Brass
Whip Material: ABS
3.8 Size: 135.6x20.1mm
3.9 Color: Black

4 ENVIRONMENTAL CHARACTERISTICS

- 4.1 Operating temperature range -35°C to + 75°C

5 QUALIFICATION TESTING

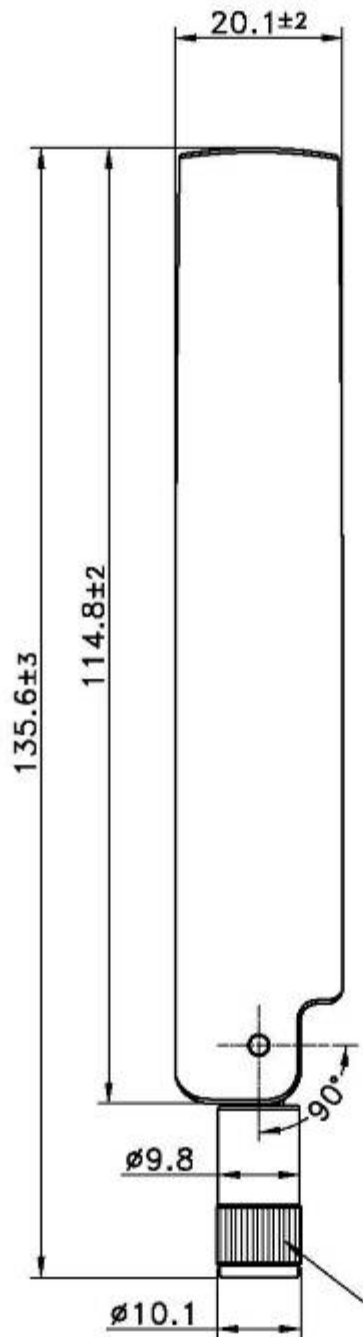
- 5.1 All products shall be able to withstand the following testing.
5.2 Physical dimensions identified within this specification.

6 PACKING STYLE

- Polybag/each
600pcs in a carton: GW: 9.5kgs / Carton Size: 41*31*22cm
-

ANTENNA SPECIFICATIONS FOR APPROVAL

7 DRAWING (MM)



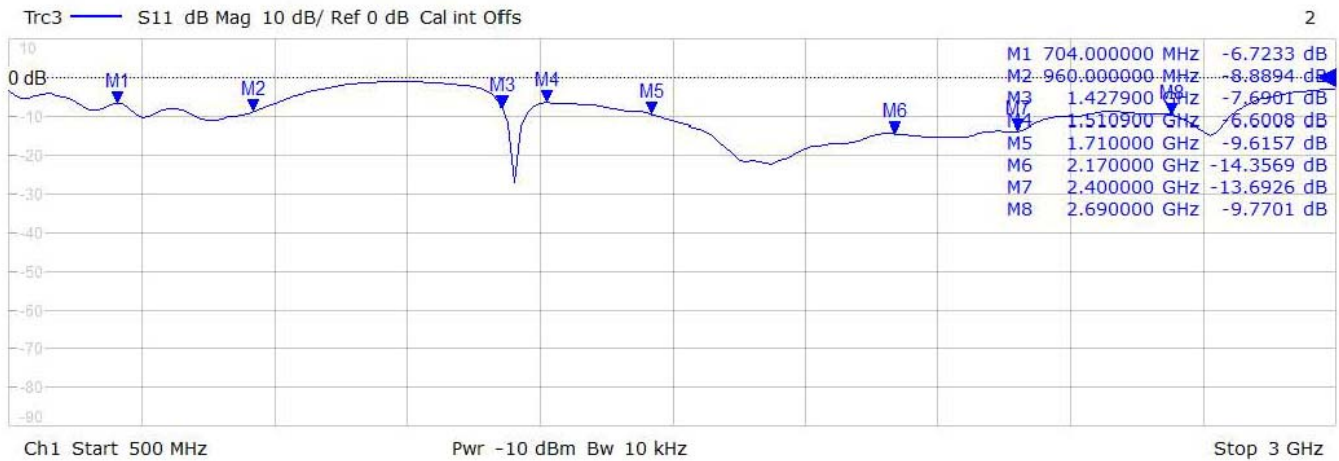
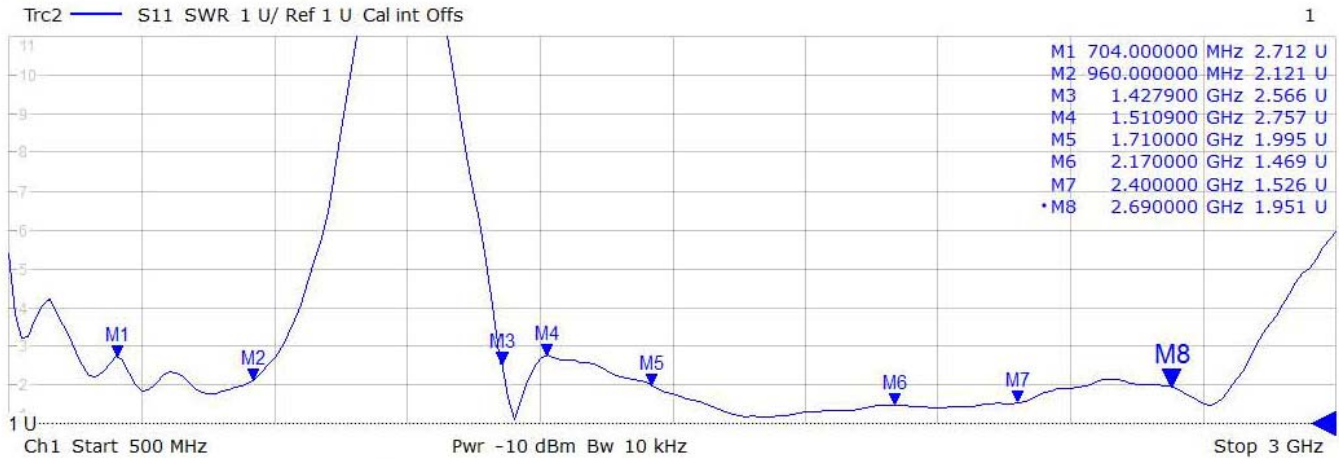
SMA PLUG



ANTENNA SPECIFICATIONS FOR APPROVAL

8 TEST- VSWR & RETURN LOSS

7/7/2015 1:12:58 PM
1311.6010K42-105528-ws



ANTENNA SPECIFICATIONS FOR APPROVAL

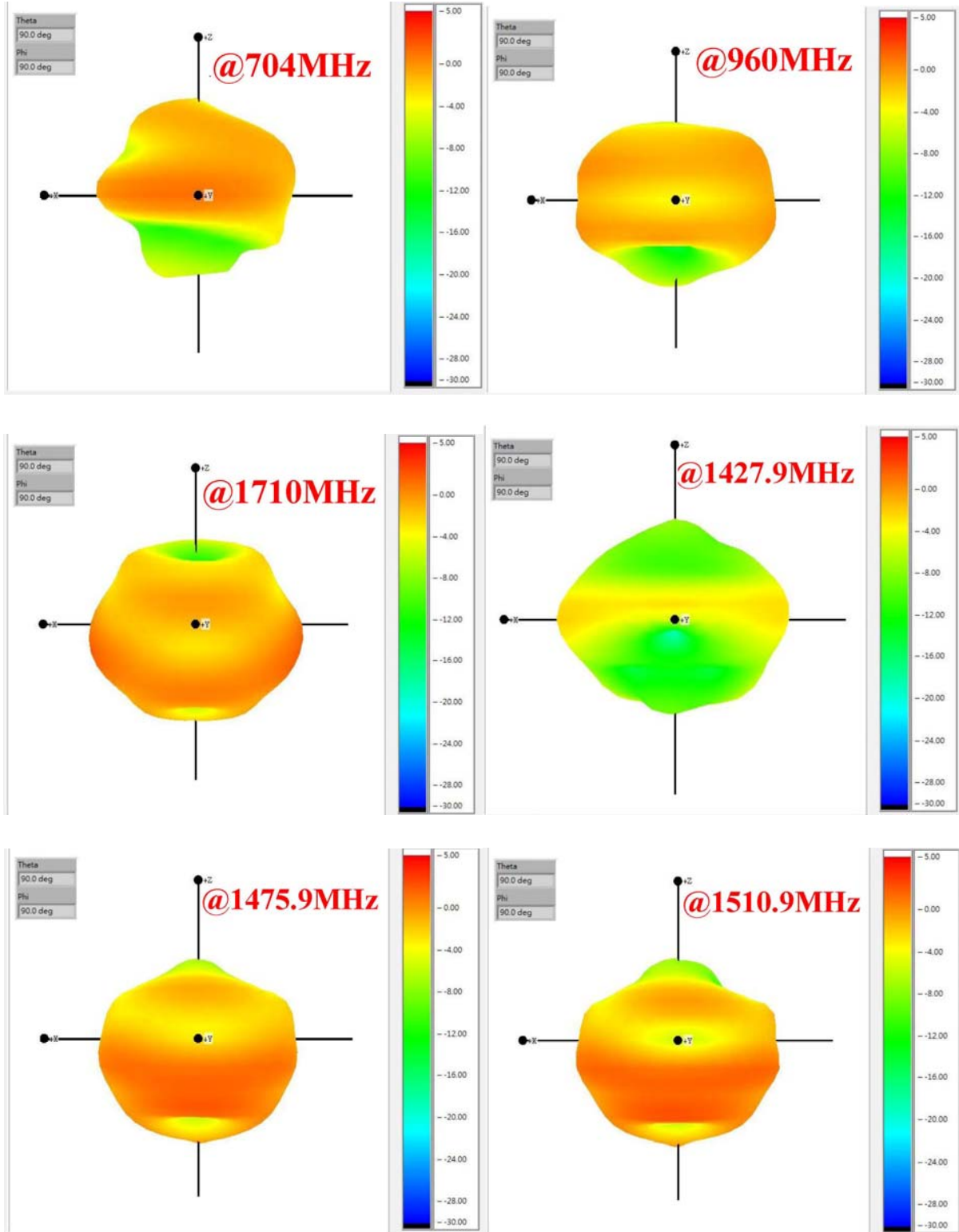
9 Antenna Efficiency

Frequency (MHz)	704	960	1427.9	1475.9	1510.9	1710	1850	1910	2170	2400	2496	2690
Peak Gain (dBi)	0.32	0.19	-2.06	1.65	2.14	1.77	2.09	2.79	2.87	2.85	2.72	2.71
Directivity (dBi)	3.67	3.85	4.95	4.73	4.99	3.77	3.94	4.42	5.18	5.99	6.61	5.99
Efficiency (dB)	-3.35	-3.66	-7.01	-3.08	-2.85	-2	-1.86	-1.63	-1.71	-1.84	-2.49	-2.99
Efficiency (%)	46.23	43.05	19.89	49.21	51.9	63.03	65.21	68.63	67.38	65.48	56.39	50.29

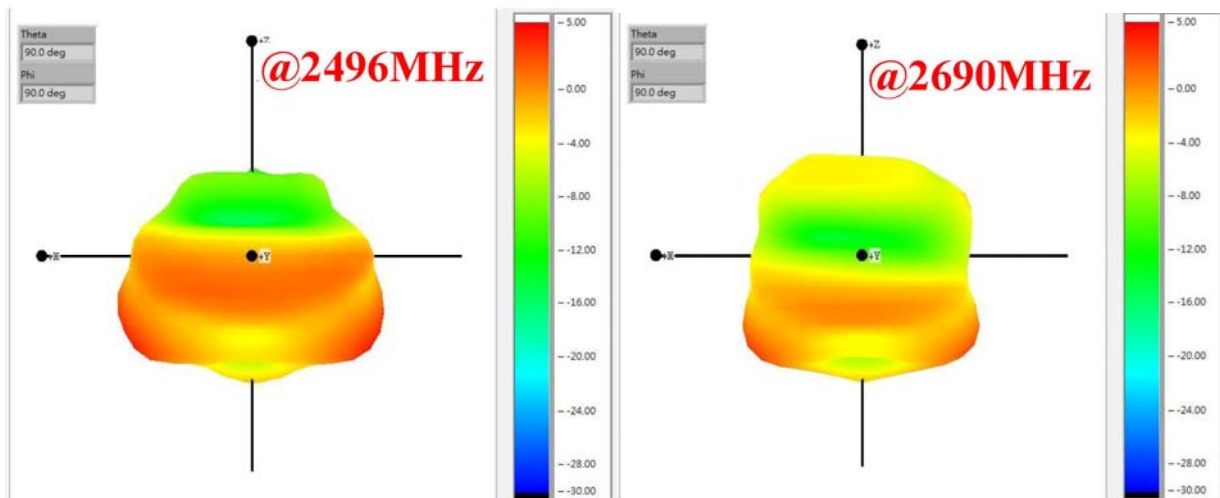
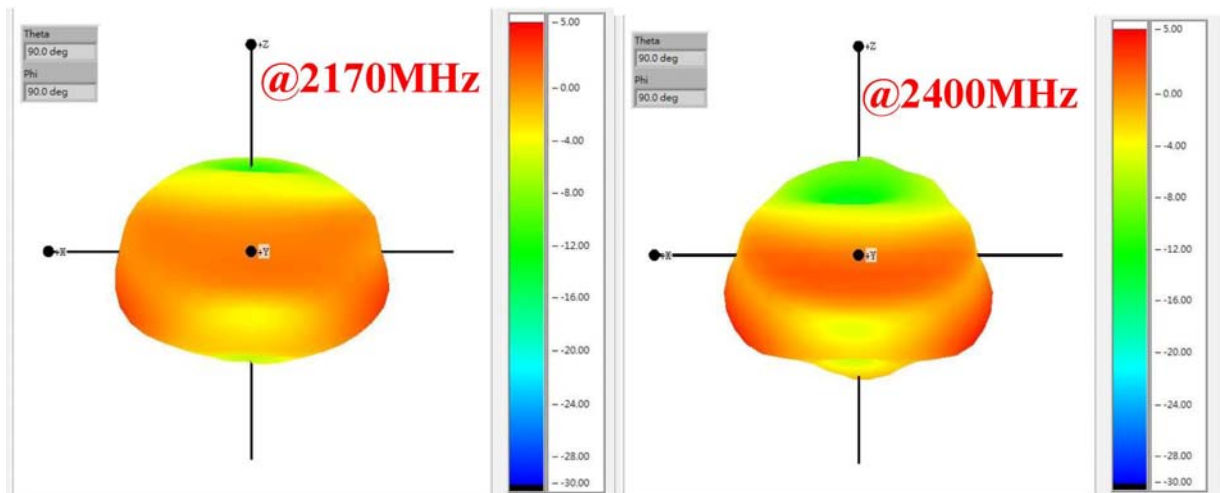
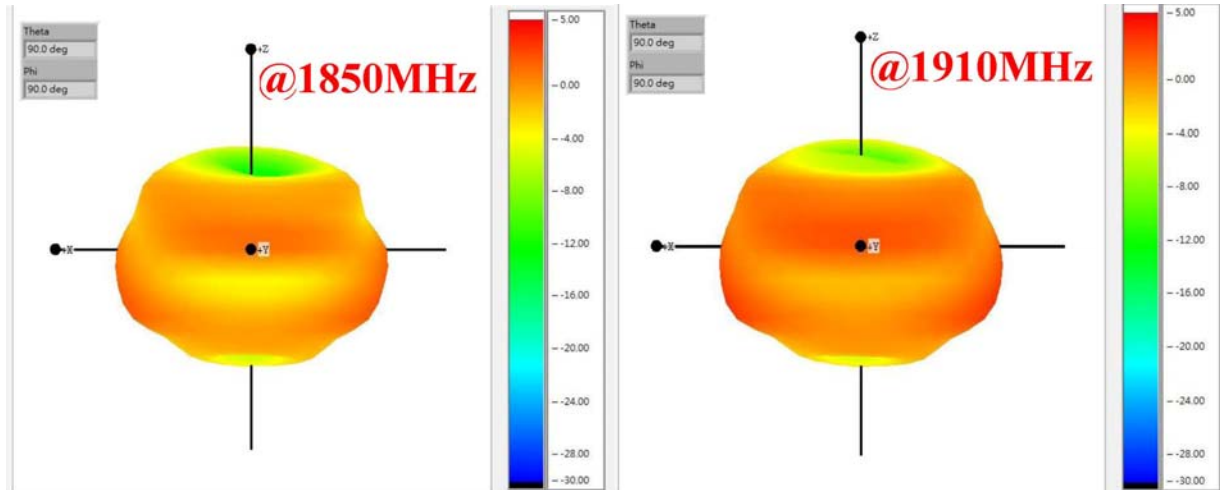


ANTENNA SPECIFICATIONS FOR APPROVAL

10 Antenna Pattern



ANTENNA SPECIFICATIONS FOR APPROVAL



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

Index:

1. Reliability Testing
2. Specification
3. Mechanical Drawing
4. SGS Report

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1. 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%

2. Specification

A. Electrical Characteristics	
Impedance	50 Ohm
B. Material	
Material of Radiator	Cu (Plated)
Material of Coaxial Cable	RG58 / 1000mm / Cable Loss: 0.9dB @ 2450MHz for 1 Meter
C. Environmental	
Operation Temperature	- 40 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 80 °C

3. Mechanical Drawing

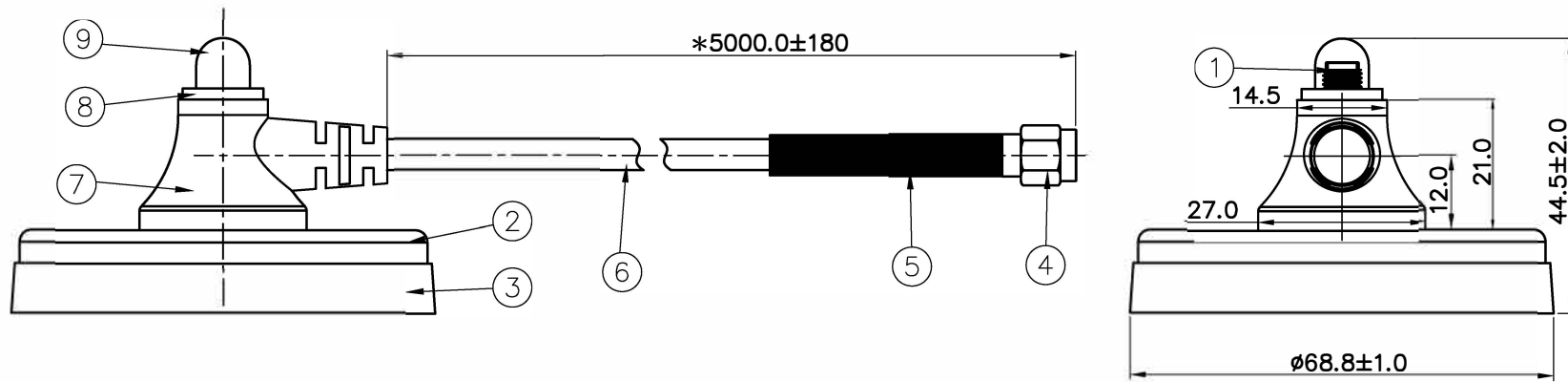
4. SGS Report

RoHS

Compatible



SIGN	DATE	DESCRIPTION	APPROVER



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	R-RG-58B-02	Cable	RG58	Black	1
5	R-HSTUBE-006T	Hot Shrinke Tube	PVC	$\phi 6.0 * 20$ mm	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
NO	Part Number	Name	Material	Finished	QTY

stem Group.				
TITLE: Magnetic Base PART				
NO.: BS43D05BSM-I			CUSTOMER P/N: /	
APP BY	CHK BY	RF BY	DES BY	Tolerance
Grant	Jack	SF	WYJ	X.X ±0.5
2015.03.30	2015.03.30	2015.03.30	2015.03.30	X.XX ±0.2
				X° ±1
				UNITS: mm
				SCALE: 1/1
				REVISION: A

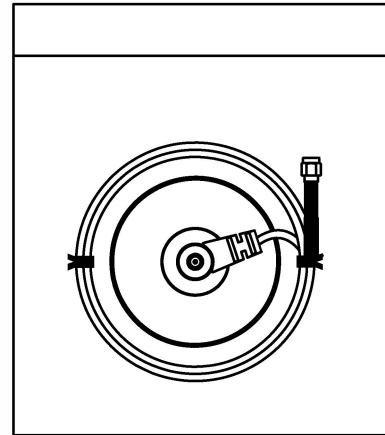
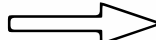
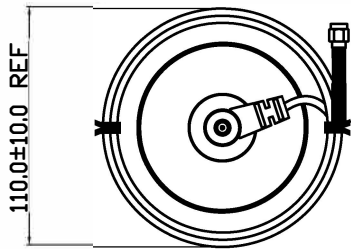
產品包裝規範

PACKING CRITERION



Part Number : BS43D05BSM-I	Revision : A
Name: Magnetic Base	Customer : ALL

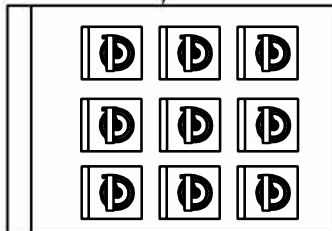
一. 1pcs產品裝入PE袋。



R-PE-BAG-150170

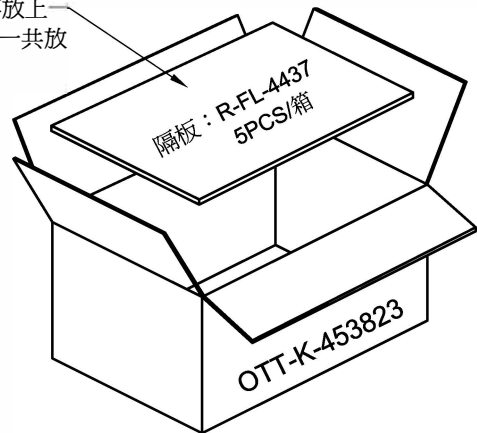
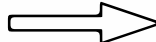
二. 裝外箱(36PCS/箱)

將裝有小的PE袋產品擺放成3排3列共9pcs裝進一個大的PE袋中，然後封口

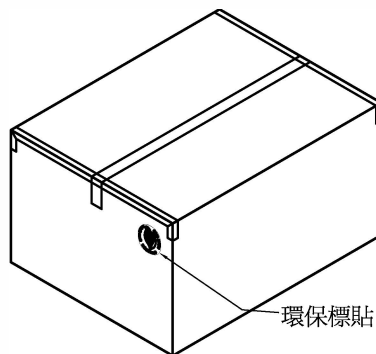


R-PE-BAG-400450
9PCS/BAG

將外箱底部用封箱膠紙封好，放1PCS隔板在底箱內，將大PE袋共9PCS產品放在隔板上，再放上一層隔板，依次類推，每箱一共放置4層產品，总共36PCS。



三. 封箱並貼環保標貼



環保標貼

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)

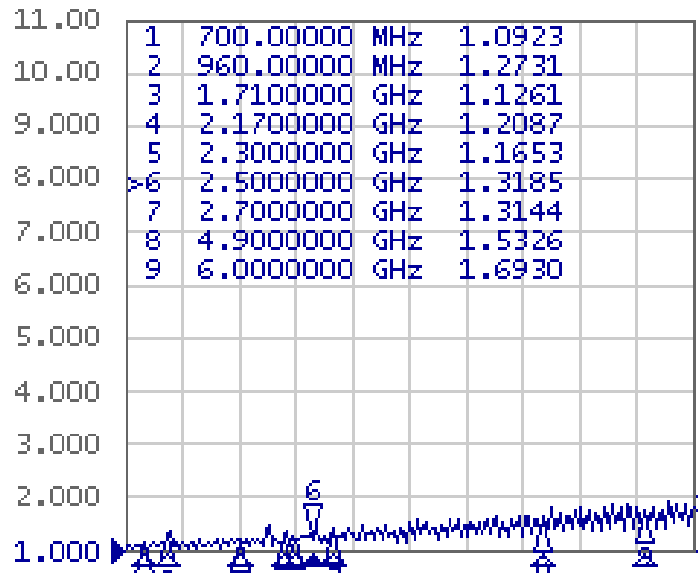
物料中HSF對象物質含量調查表

物料名稱：BS43D05BSM-I

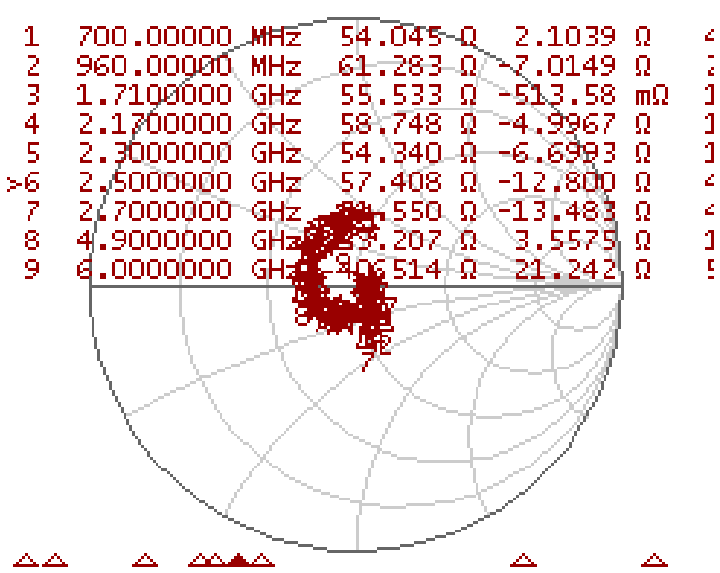
序號	物料型號	物料各構成名稱	各構成物料的材質	測試報告裡RoHS對應物質測試結果						檢測報告編號	測試日期	測試名稱	測試機構名稱
				Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs				
1	R-AN62-08C	Metal Body	Iron	N.D.	N.D.	N.D.	Negative			CANEC1402559406	2014.03.11	单光铁料SPCC	SGS
2	R-RG-58B-02	Cable	外被PVC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC1502724602	2015.03.09	BLACK PVC	SGS
3			PE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC1409066101	2014.06.17	HDPE/XLPE/FPE	SGS
4			裸銅線	N.D.	8 mg/kg	N.D.	Negative	N.D.	N.D.	ECL03G003675001E	2014.12.12	Bare Copper Wire	CTI
5	SMA946-CGR558-B SMA010-CGT558-A	SMA母頭母針 SMA公頭公針	銅	36	26662	N.D.	Negative			CANEC1408043401	2014.05.30	C3604 Copper bar	SGS
6			鍍金	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANML1410789606	2014.07.10	滾鍍:金溶液.	SGS
7	R-AN62-09 R-AN29-RU-1320	Rubber	橡膠	8	35	N.D.	N.D.	N.D.	N.D.	CANEC1401509117	2014.02.24	Environmental Protection rubber sheet	SGS
8	R-SMA-SLR-800	SMA Hat	硅膠	N.D.	10	N.D.	N.D.	N.D.	N.D.	SHAEC1402241106	2014.03.01	混煉胶	SGS
9	R-HSTUBE-006T	SHTUBE	PVC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC1501457205	2015.02.02	HEAT SHRINKABLE	SGS
10	AB43-SR-SMA	SR	PVC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC1502724602	2015.03.09	BLACK PVC	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2009/95/BC、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%

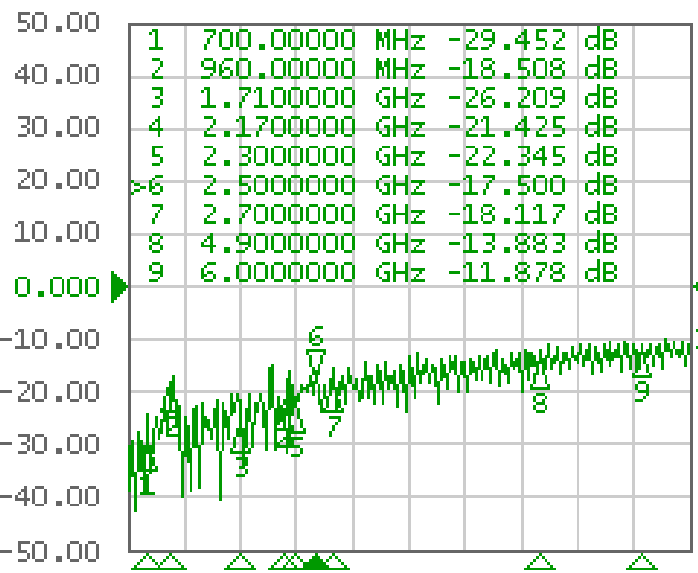
Tr1 S11 SWR 1.000/ Ref 1.000 [F2]



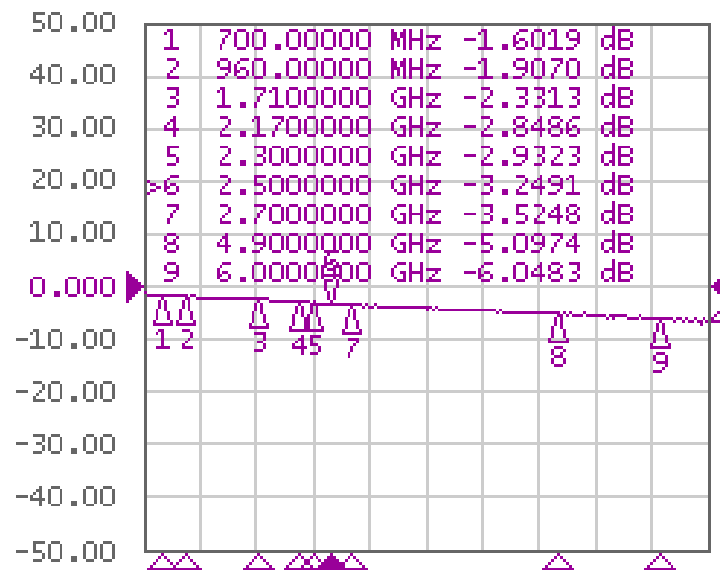
Tr2 S11 Smith (R+jX) Scale 1.000U [F2]



Tr3 S11 Log Mag 10.00dB/ Ref 0.000dB [F2]



Tr4 S21 Log Mag 10.00dB/ Ref 0.000dB [F2]



System

Print

Abort Printing

Printer Setup...

Invert Image
ON

Dump
Screen Image...

Multiport Test Set
Setup

Misc Setup

Backlight
ON

Firmware
Revision