



權億科技股份有限公司  
Master Wave Technology Co., Ltd.

承認書

APPROVAL SHEET

Customers: 神準科技股份有限公司

Customer Model No.:7102A0414000

Master Wave Model No. 98143URSX000

Product Description: 8143 Replacement Ant.

Issue Date: 2016/5/4

REV.: 00

客戶承認用印		權億承認用印	
			
核准 Approve	主管 Chief	承辦 Responsible	
Hero	Matt	Mango	

**MASTER WAVE TECHNOLOGY CO., LTD.**

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## Table of Contents

### Item

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#### 1. Antenna Specifications

-Drawing

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#### 2. Test Report

-Electrical test

-Antenna Efficiency

-Pattern test

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#### 3. Material Certifications

-Connector

-Cable

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#### 4. Packing

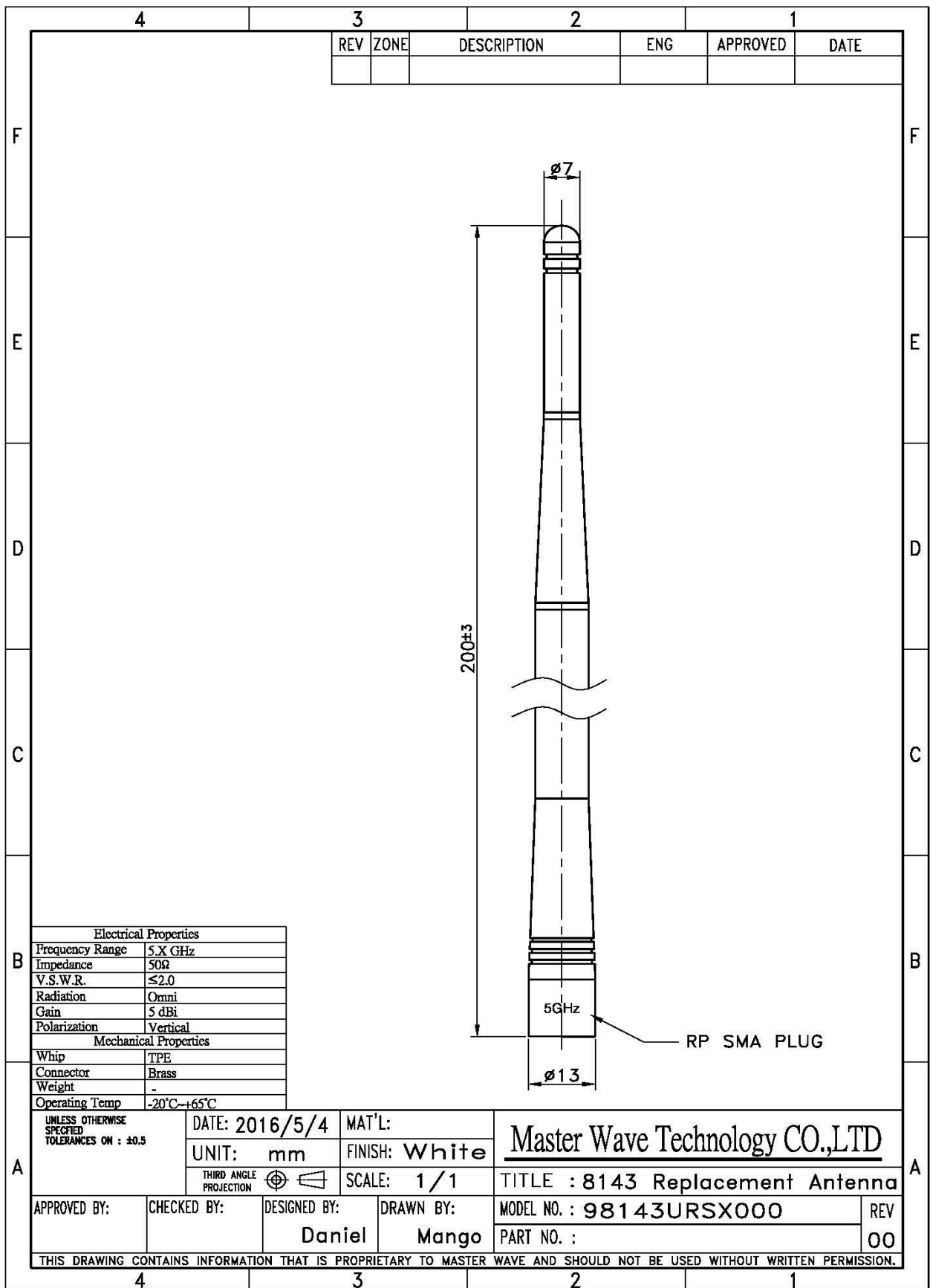
-PE Bag

-Carton

### Modification History:

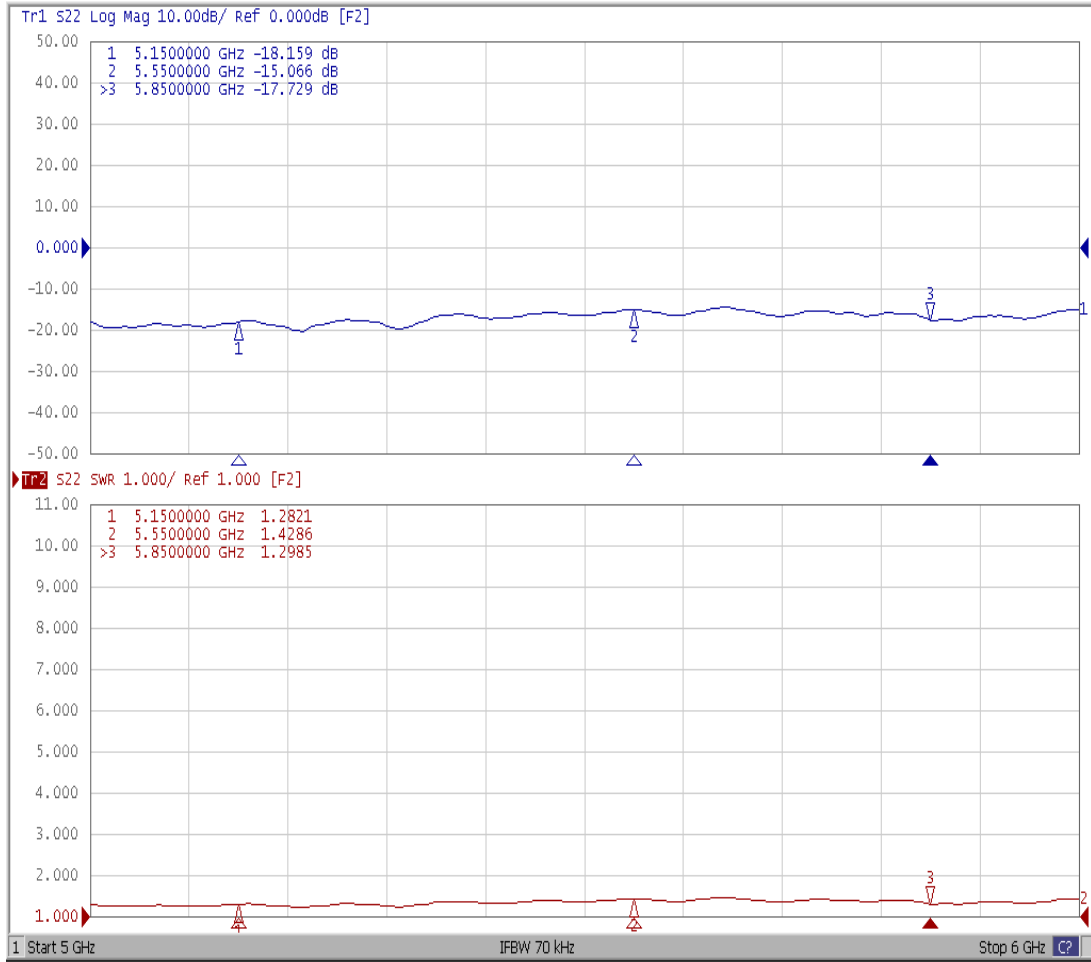
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## Electrical Test





## Antenna Efficiency

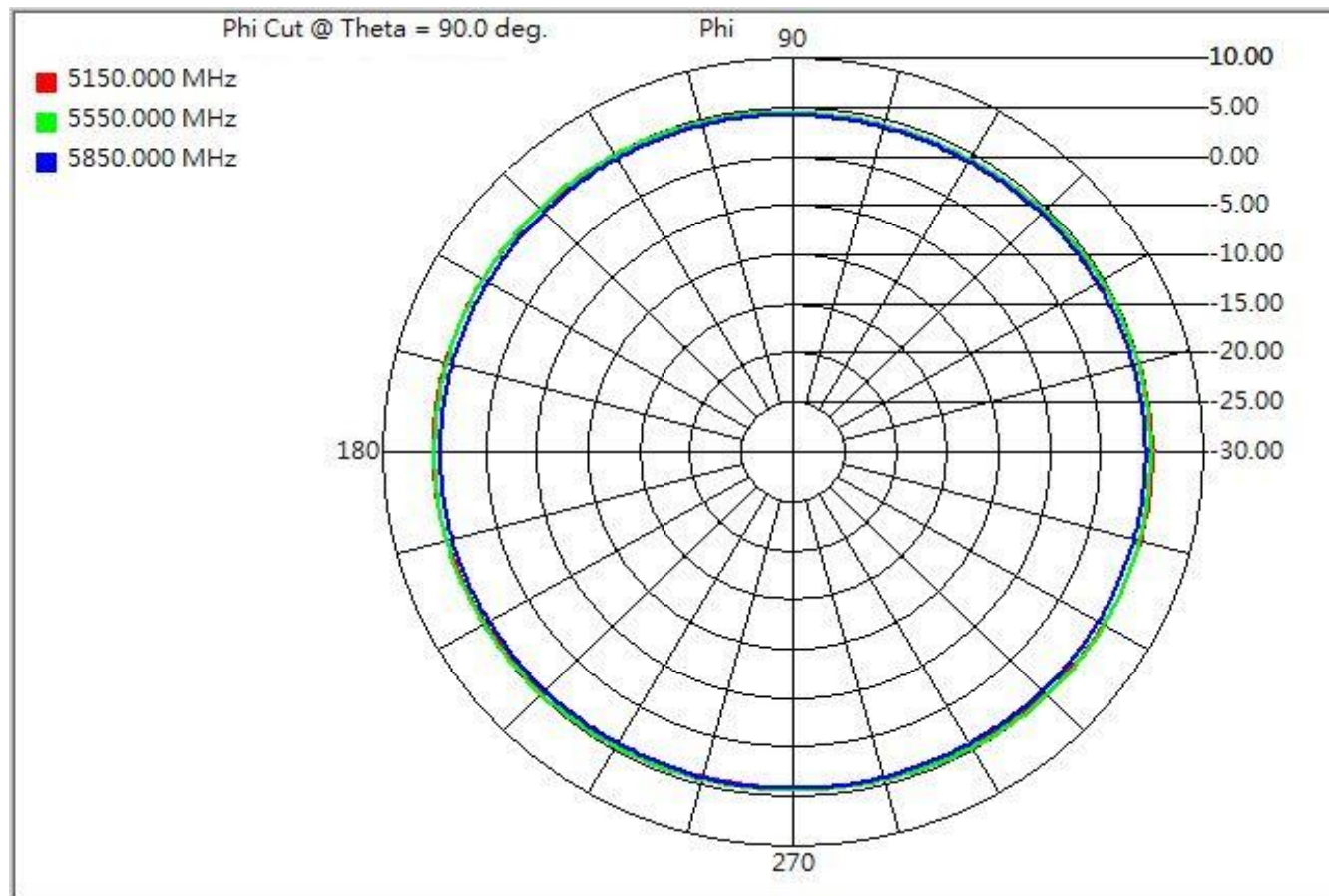
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<b>Frequency (MHz)</b>	5150	5550	5850
<b>Peak Gain (dBi)</b>	5.12	5.09	5.17
<b>Directivity (dBi)</b>	6.51	6.44	6.43
<b>Efficiency (dB)</b>	-1.39	-1.35	-1.26
<b>Efficiency (%)</b>	72.54	73.12	74.65

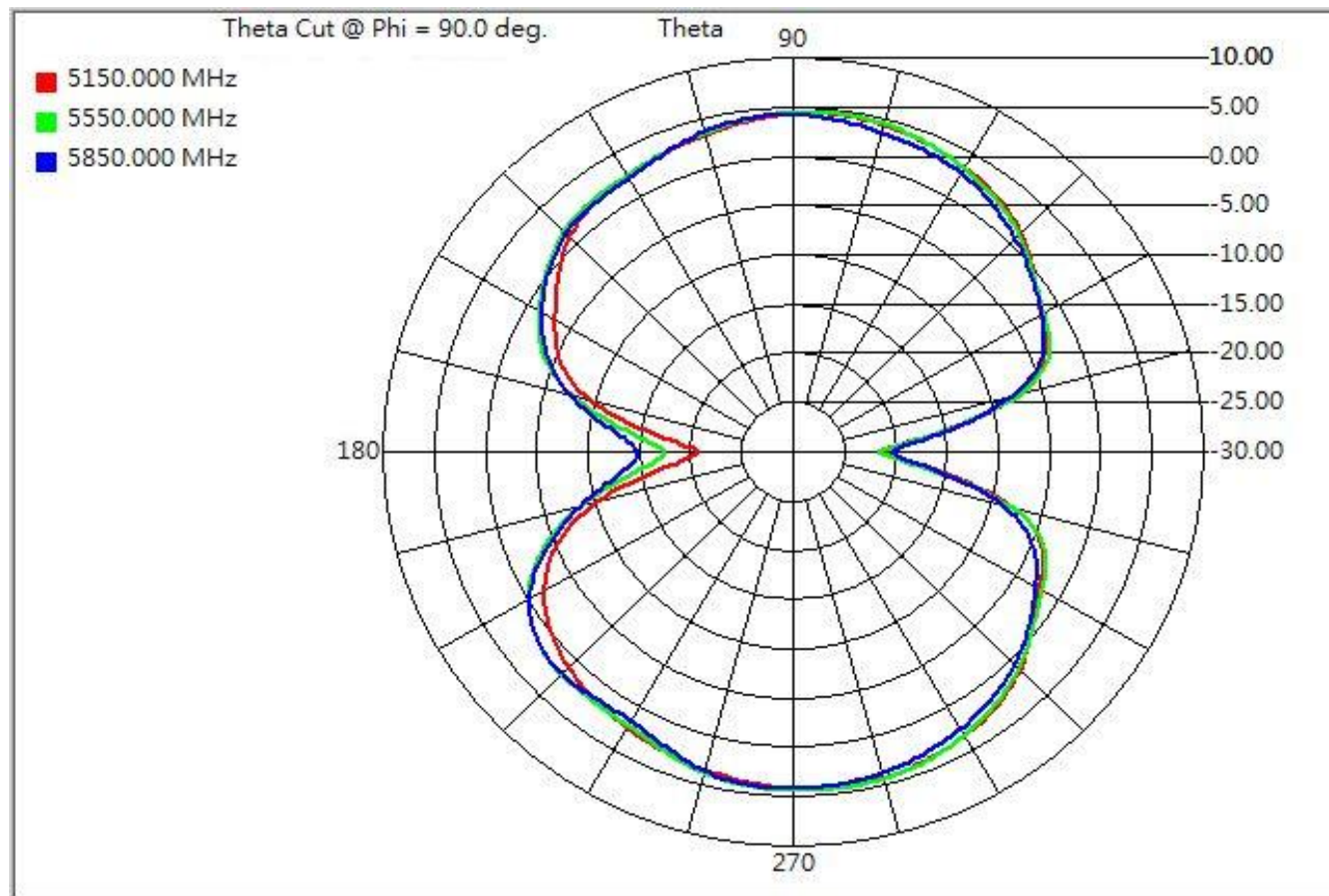


## 2D Radiation Pattern H-Plan





## 2D Radiation Pattern E-Plan





**Connector**

**SMA**

Electrical Properties	Impedance	50 ohm
	Frequency Range	0~6 GHz
	V.S.W.R	$\leq 1.5$
	Working Voltage	$\leq 170V_{rms}$
	Dielectric Withstanding	$\leq 500 V_{rms}$
	Voltage Insulation Resistance	$\geq 2000$ Megohms
	Contact Resistance	Center contact: 3.0 Milliohms (Max.) Outer contact: 2.0 Milliohms (Max.)
	Recommended coupling nut torque	4.0 in. lbs. ~ 8.8in. lbs.
	Coupling nut retention force	$\geq 60$ lbs.
	Contact captivation axial	$\geq 6$ lbs.
	Coupling Proof Torque	15 in-1lbs.min

Operating Temperature	-65°C ~ +165°C
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Material Specifications	Material Data	Material
	Body	Brass
	Center Contact	Brass
	Insulator	Teflon





線材規格

CABLE SPECIFICATION

SPECIFICATION: RG178 CABLE		CONSTRUCTION D.W.G	
ITEM		SPECIFICATION	
CONDUCTOR	MATERIAL	Silverplated Copper coated steel Wire	
	Composition(No./mm)	7/0.102	
INSULATION	NOM.O.D	0.306±0.03	
	Material	FEP(Natural)/PTFE	
	Nom. Thick.(mm)	0.275	
BRAIDING	NOM.O.D	0.88±0.03	
	MATERIAL	Silver-coated annealed copper wire	
JACKET	Composition	16*3/0.1; Coverage $\geq$ 90%	
	MATERIAL	FEP(*color)	
	Nom. Thick(mm)	0.25	
	Nom. O.D(mm)	1.78±0.05	
Color		Brown	
<b>Electrical Properties(at 20 °C)</b>			
Item	Unit	Details	
Conductor Resistance	$\Omega$ /km	Max.800	
Insulation Resistance	M $\Omega$ .km	Min.500	
Dielectric Strength	V(AC)/min	1000	
Capacitance	pF/m	105(1kHz)	
<b>REMARK</b>			
Characteristic Impedance		$\Omega$	50±2.0
Attenuation	dB/m	1GHZ	1.70
		2GHZ	2.42
		3GHZ	3.08
		4GHZ	3.63
		5GHZ	4.15
		6GHZ	4.80
Temperature range	$^{\circ}$ C	-55~150	
Standing wave(0-6GHz)	/	$\leq$ 1.35	
<b>MASTER WAVE TECHNOLOGY CO., LTD.</b>			
CHECKED	DATE	Charlene	2013/8/8
DRAWING	REV		01

