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承认书

SPECIFICATION FOR APPROVAL

客户名称 Customer Name:	Safemo Pte. Ltd.
产品型号 Product Model:	BX1
客户料号 Customer P/N :	
	L-R: CP. 04. A0086000202
产品规格 SPECIFFCATIONS:	Fre.: 2400MHZ-2500MHZ
制作日期 Production date:	2023. 10. 31
封样版本 Sample Version:	V1. 0



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Number	Effective date	Change record
V1.0	2023-10-31	Initial release



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Basic parameters

A. Electrical Characteristics					
Frequency	2400MHZ-2500MHZ				
VSWR	< 2.0				
Avg Efficiency	>50%				
Impedance	$50 \pm 25 \mathrm{Ohm}$				
Polarization	Linear				
Peak Gain	2.4G: 4.83dBi				
B. Material & Mechanical Characteristics	B. Material & Mechanical Characteristics				
Material of Radiator	FPC White				
Cable Type	Φ1.13mm R-L=100mm White				
Connector Type	一代端子				
Dimension	53.83 ± 0.2 mm* 17.41 ± 0.2 mm				
C. Environmental					
Operation Temperature	- 20 °C ~ + 60 °C				
Storage Temperature	- 30 °C ~ + 70 °C				

二、Electrical specifications

Those specifications were specially defined for <u>BX1</u> model.

三、VSWR

- 1 Measurement methods
 - $1.A\ 50\,\Omega$ coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR
 - 2. Keeping this jig away from metal at least 20cm
- 2 Measure frequency points and standing wave ratio





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四、 Darkroom introduction

Introduction:

Microwave darkroom and no reflection chamber, absorbing short wave darkroom dark room. Microwave darkroom by electromagnetic shielding room, filtering and isolation, grounding device, the ventilation duct, indoor distribution system, monitoring system, ceiling wave material part. It is based on the wave absorbing material as the lining of the shield room, it can absorb the most of the electromagnetic energy into the six wall is a better simulation of the free space conditions.

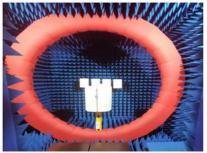
The main working principle of microwave anechoic chamber is according to the electromagnetic wave in the medium from the low magnetic guide magnetic direction of propagation rules, absorbing materials to guide the electromagnetic wave using high permeability, through resonance, a substantial absorption of electromagnetic wave radiation energy, by coupling the electromagnetic energy into heat energy.

main performance :

Frequency range:400MHz \sim 6GHz ceiling reflected wave loss materials: 400MHz \sim 6GHz is equal to or more than 15dB (microwave absorbing material by composite wave absorbing materials, namely tapered containing carbon sponge suction wave material paste in ferrite)







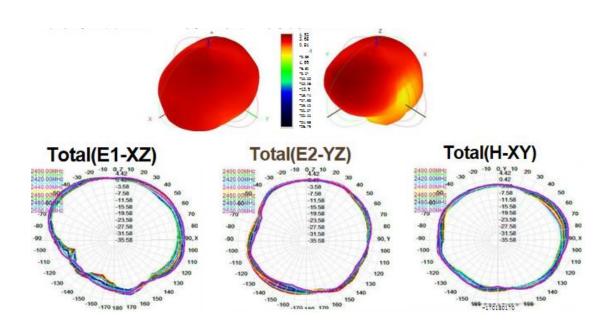




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五、Antenna performance

2400MHZ-2500MHZ-L



Passive efficiency gain

WIFI-L			
Freq (MHz)	Effi (%)	Gain(dBi)	
2400	62.75	2.65	
2410	61. 62	2. 88	
2420	64. 72	3. 18	
2430	65. 34	3. 29	
2440	71. 03	3, 83	
2450	72. 26	4.34	
2460	74. 01	4. 76	
2470	73. 65	4. 83	
2480	75. 2 6	4. 75	
2490	77. 24	4. 64	
2500	79. 02	4. 52	



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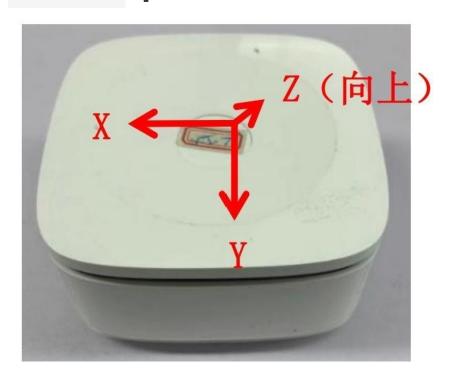
OTA active

B模 (11MBPS)			
СН	TRP (dBm)	TIS (dBm)	
1	19. 12	-87. 76	
3	19. 25	-89. 64	
5	19. 88	-89. 74	
6	19. 99	-87. 56	
7	19. 33	-90. 87	
9	19. 88	-90. 94	
11	20. 15	-91. 03	
13	20. 07	-89. 42	



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六、Machine pictures



七, Antenna assembly drawing

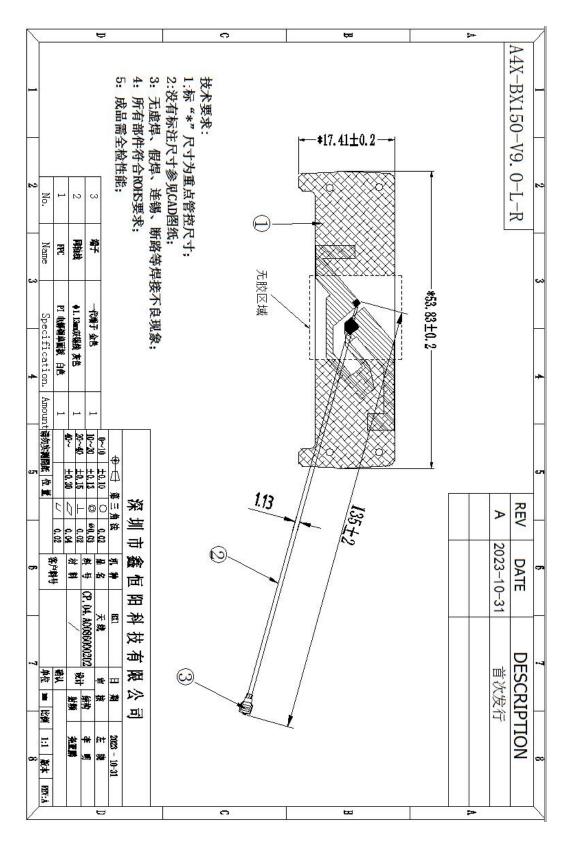


R & D, production and sales of professional wireless terminal antenna



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八、Antenna drawing size



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九、ROHS

Antenna L-R: CP. 04. A0086000202 meets RoHS requirements.

十、 Product packaging instructions

A. packing should meet the moisture proof, vibration, pressure and mildew proof, etc.

B. the smallest packing unit logo must have the manufacturer trademarks, product model, name, code and quantity.

C. in the attached packing list, certificate of approval, and the factory inspection report.