

WA-P-LB-02-941 Specification

1. Explanation of part number :

WA - P - LB - 02 - 941
(1) (2) (3) (4) (5)

- (1) Product Type: Wireless Antenna
- (2) Material: PCB+cable
- (3) Frequency: 2400-2500MHz;5150-5850MHz
- (4) Coaxial Cable Type: With BLACK (125mm)
- (5) Suffix: 941

2. Operating Condition:

Temperature -40 to +70°C
Humidity 20 to 65% RH

3. Storage Condition:

Temperature -40 to +70°C
Humidity 10 to 85% RH

4. Electrical Specification :


Those specifications were specially defined for 宝时得割草机 wifi 双频天线 model, and all characteristics were measured under the model's handset testing.

4-1. Frequency Band:

Frequency Band	MHz
WIFI	2400-2500/5150-5850MHz

4-2. Impedance

50 ohm nominal

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4-3. Matching circuit

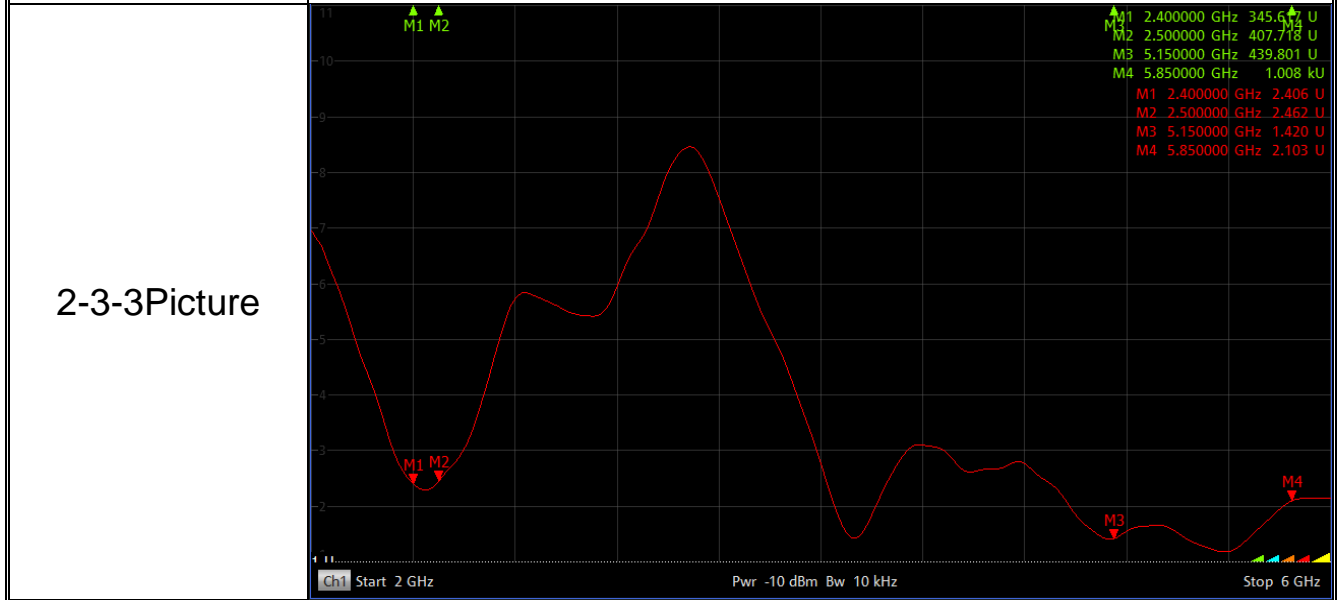
None

4-4. VSWR

Frequency (MHz)	2400	2500	5150	5850
2-3-1. Typical Value:	≤3.0	≤3.5	≤3.0	≤3.0

2-3-2 Measuring Method

- 50 Ω coaxial cable is connected to the PCB. Then this cable is connected to a network analyzer to measure the VSWR.
- Keeping this jig away from metal at least 20 cm.



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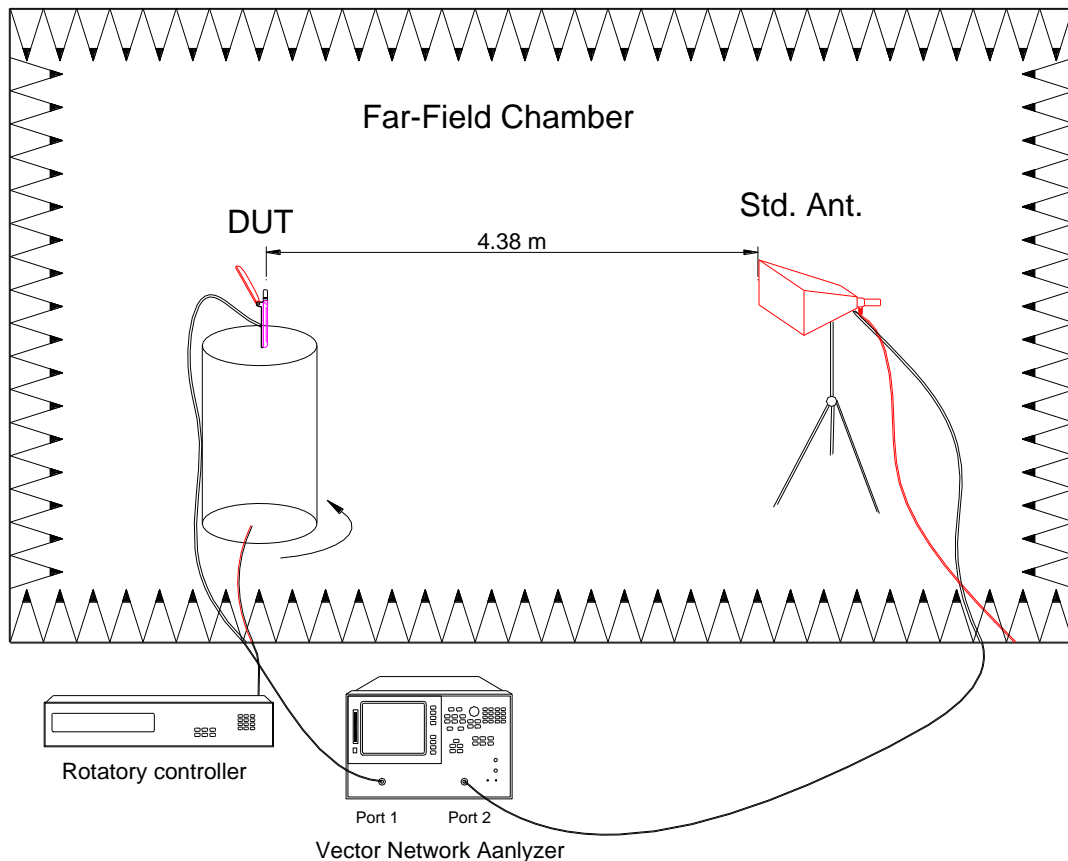
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4-5. Efficiency and Gain

4-5.1 Measure method

1. Using a low loss coaxial cable to link a standard handset jig
2. Fixed this handset jig on chamber's rotator plane
3. Linking jig into network analyzer port and using a probing horn antenna to collect data.
4. Using another standard gain horn antenna to calibrated those data



4-5.2 Chamber definition

1. An anechoic chamber (7mx4mx3m) which satisfied far-field condition was applied to avoid multi-path effect
2. The quiet room region is 40cmx40cmx40cm at the center of rotator
3. The distance between DUT and standard antenna is 4.38 m

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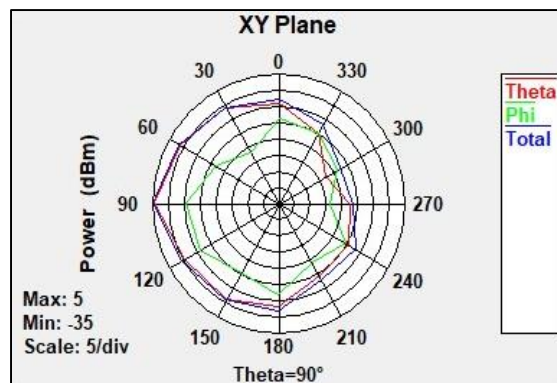
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4. Probing antenna (9120D horn antenna) and standard gain horn antenna (BBHA9120 LPF 700MHz ~6GHz)

4-5.3 Antenna Passive Test Result

Frequency (MHz)	H-Pol(dBI)	V-Pol(dBI)	Peak Gain (dBI)	Average (dBI)	Efficiency (%)
2400	3.99	-5.72	4.49	-3.44	45.32
2412	3.97	-5.49	4.50	-3.14	48.54
2437	3.26	-5.77	3.77	-3.10	49.01
2450	3.15	-5.84	3.67	-2.98	50.33
2462	2.84	-6.22	3.35	-3.02	49.92
2500	1.78	-6.95	2.33	-3.11	48.81
5150	0.98	-0.67	3.93	-3.29	46.92
5250	-0.44	-3.07	4.25	-3.40	45.75
5350	-0.57	-5.03	5.03	-3.52	44.50
5470	-0.27	-4.69	5.69	-3.28	47.00
5600	-1.08	-7.96	4.95	-3.46	45.05
5725	0.17	-7.99	5.93	-3.63	43.32
5785	-1.58	-8.06	4.98	-3.62	43.46
5850	-1.23	-8.15	5.52	-3.67	42.94

2400 MHz



Center Frequency	2400 MHz
Three-dimensional (dBi) peak	4.49

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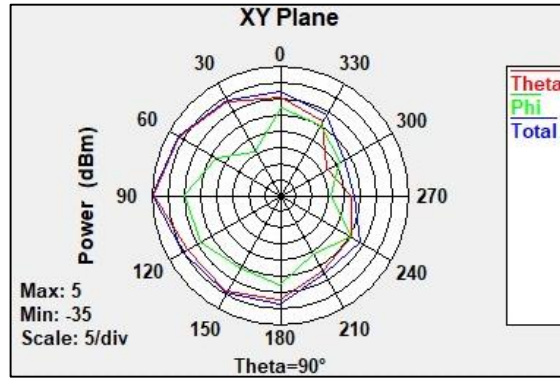
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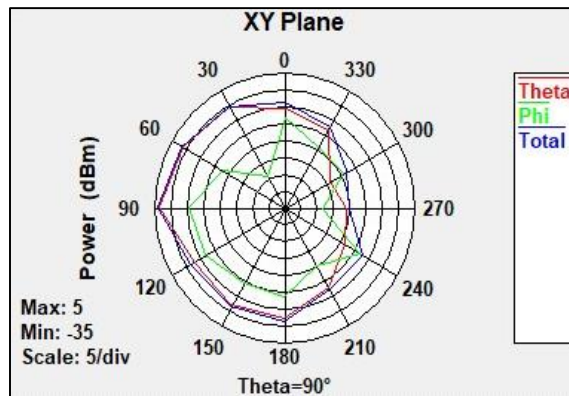
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2412 MHz



Center Frequency	2412 MHz
Three-dimensional (dBi) peak	4.50

2437 MHz



Center Frequency	2437 MHz
Three-dimensional (dBi) peak	3.77

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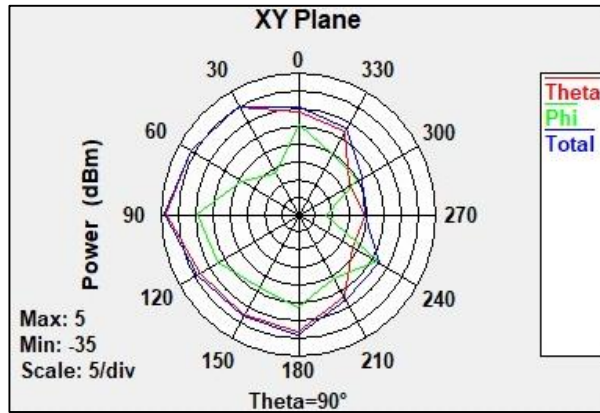
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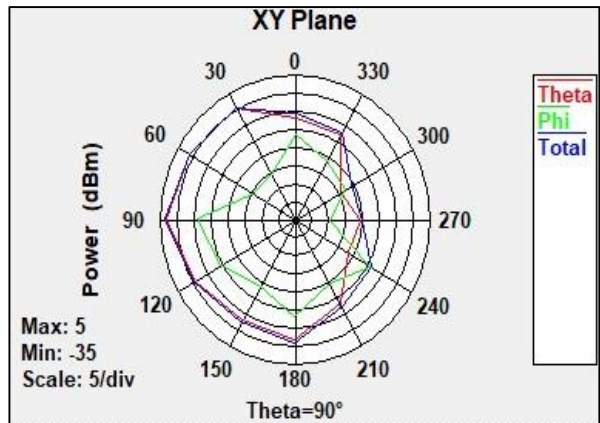
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2450 MHz



Center Frequency	2450 MHz
Three-dimensional (dBi) peak	3.67

2462 MHz



Center Frequency	2462 MHz
Three-dimensional (dBi) peak	3.35

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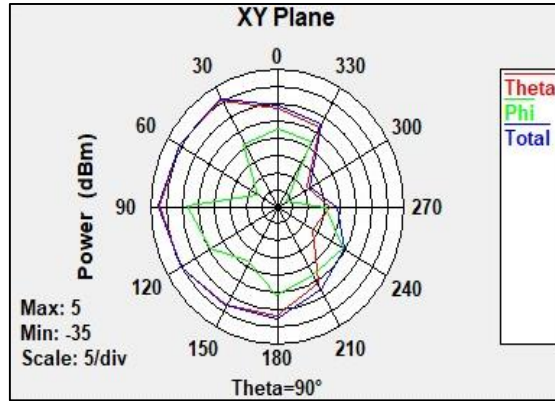
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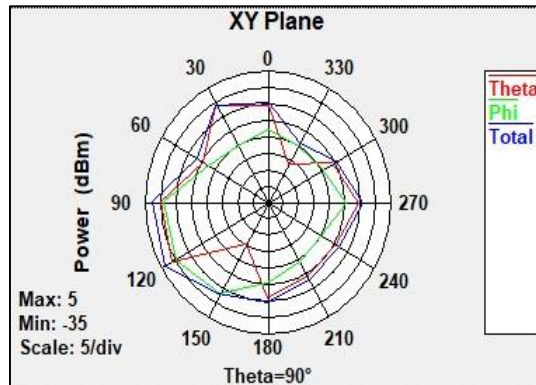
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2500 MHz



Center Frequency	2500 MHz
Three-dimensional (dBi) peak	2.33

5150 MHz



Center Frequency	5150 MHz
Three-dimensional (dBi) peak	3.93

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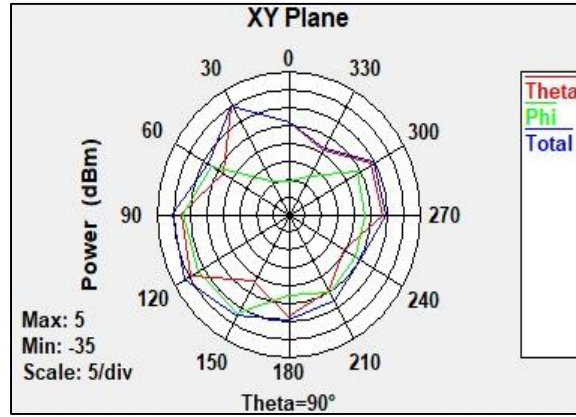
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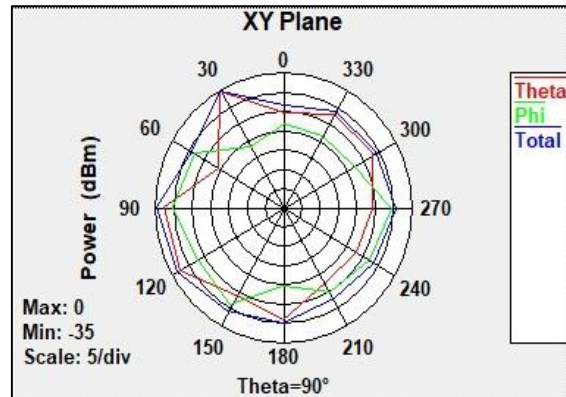
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5250 MHz



Center Frequency	5250 MHz
Three-dimensional (dBi) peak	4.25

5350 MHz



Center Frequency	5350 MHz
Three-dimensional (dBi) peak	5.03

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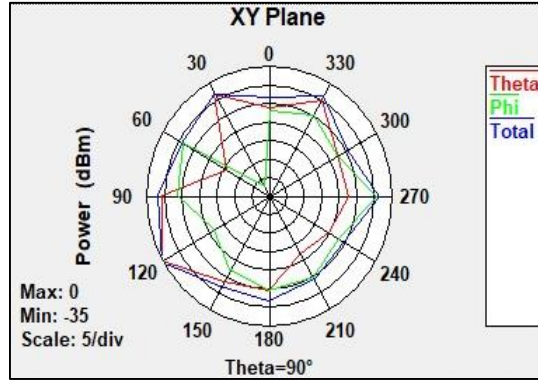
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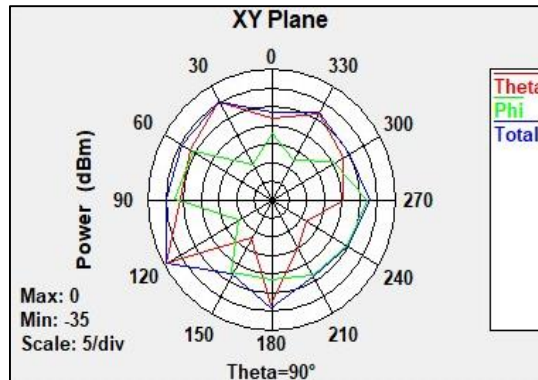
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5470 MHz



Center Frequency	5470 MHz
Three-dimensional (dBi) peak	5.69

5600 MHz



Center Frequency	5600 MHz
Three-dimensional (dBi) peak	4.95

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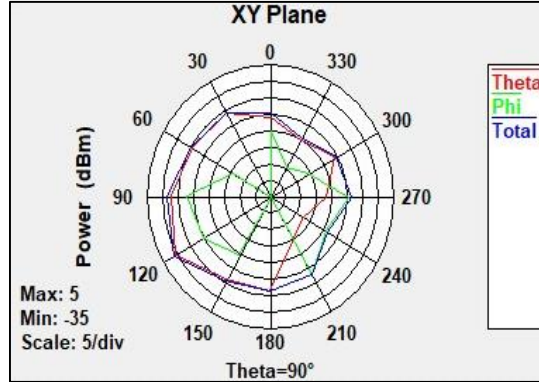
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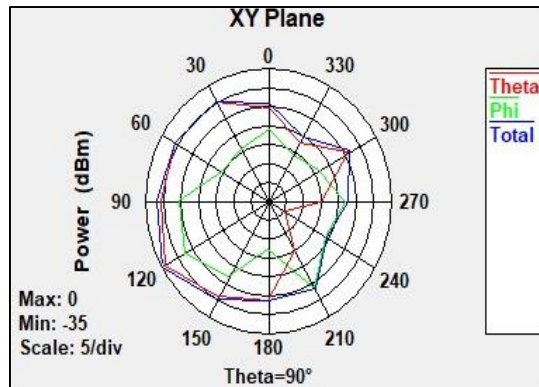
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5725 MHz



Center Frequency	5725 MHz
Three-dimensional (dBi) peak	5.93

5785 MHz



Center Frequency	5785 MHz
Three-dimensional (dBi) peak	4.98

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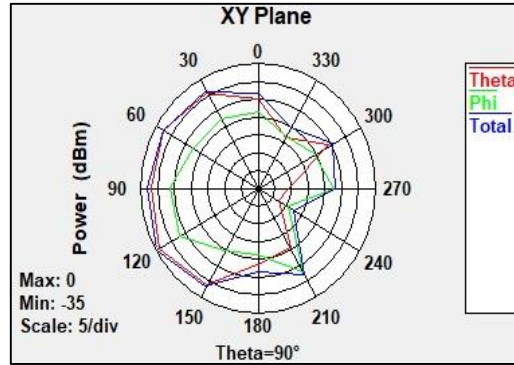
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5850 MHz

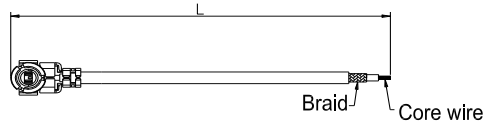


Center Frequency	5850 MHz
Three-dimensional (dBi) peak	5.52

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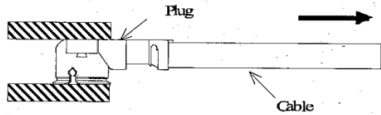
5. Mechanical Specification :

5.1 Cable length: L:125±3mm; Connector: 1.13 IPEX1

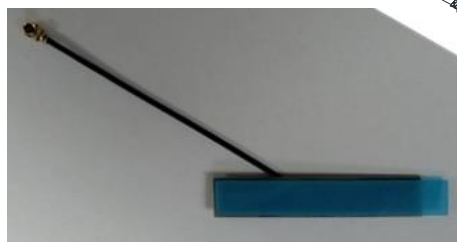
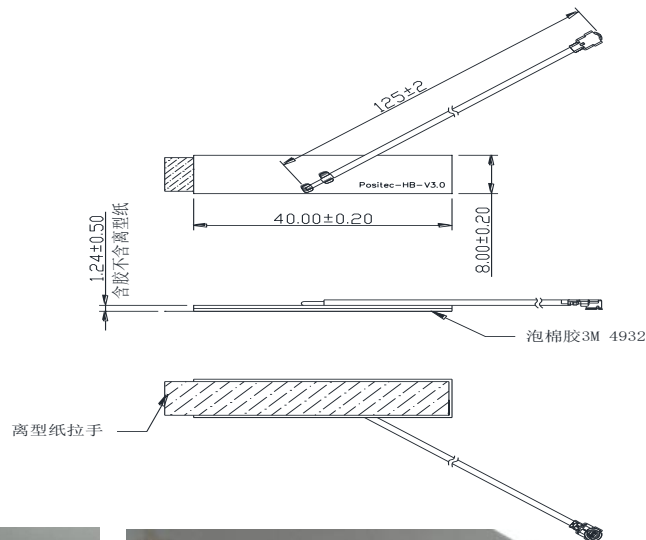


5.2 端子与线材之间拉拔力大于 1kgf

拉拔力大于 1kgf



5.3 Mechanical Configuration(unit:mm):



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