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Wifi Route Module | HLK-RM04N

Transfer Faster&High Performance

2.4G/300M/AP、STA&AP+STA

MT7628N/MT7688A

AC DC 2W power Module

HLK-2M05 5V 2W power module

ITEM ID HLK-2M05

Retail Price:\$1.90

Wholesale Price: \$1.76

Quantity: Unit(s)

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DETAILS

Product Model

MODEL	Size (mm)	Output power (W)	Output voltage (V)	Output current (mA)	Notes
HLK-2M03	30*16*19	2	3.3	600	
HLK-2M05			5	400	
HLK-2M09			9	230	
HLK-2M12			12	170	
HLK-2M15			15	130	
HLK-2M24			24	83	

Product features

1. Ultra-thin, ultra-small, smallest volume;
2. Global universal input voltage (90~245Vac)
3. Low power consumption, green environmental protection, no-load loss<0.1W
4. Low ripple, low noise
5. High output short circuit and over-current protection and self recovery
6. High efficiency, high power density
7. Input and output isolation voltage 3000Vac
8. 100% full load aging and testing
9. High reliability, long life design, continuous working time is greater than 100,000 hours;
10. Meet UL, CE requirements; product design to meet EMC and safety testing requirement;
11. Using high-quality environmentally friendly waterproof plastic potting, moisture, vibration, water and dust to meet IP65 standards
12. Economic solutions, cost-effective
13. Work without external circuit
14. 1 year quality guarantee period

Environmental conditions

Items	Technical Parameters	Units	Notes
Working temperature	-25--+60	℃	
Storage temperature	-40--+80	℃	
Relative humidity	5—95	%	
Thermal methods	Natural cooling		
Atmospheric pressure	80—106	Kpa	
Altitude	≤2000	m	
Vibration	Vibration coefficient 10~500Hz,2G10min./1cycle, 60min.each along X,Y,Z axes		Meets requirements for secondary road transportation

Electrical characteristics

Items	Technical Parameters	Units	Notes
Rated input voltage	100-230	Vac	
Input voltage range	90-245	Vac	
The maximum input current	≤0.2	A	
Input inrush current	≤10	A	
Rated input voltage	≤250	Vac	
Input low start	≤50	mS	
Input low voltage efficiency	Vin=110Vac, Output full load ≥69	%	
Input high voltage efficiency	Vin=220Vac, Output full load ≥70	%	
Long-term reliability	MTBF≥100, 000	h	
External fuse recommended	0.5A/250Vac		Slow blow

Safety Characteristics

Products designed to meet UL, CE safety certification requirements.

* Safety and electromagnetic compatibility

Designed with the input of 0.5A UL certified insurance;

PCB board using double-sided copper clad plate production, material for the 94-V0 fire rating level;

Safety standards: Compliance with UL1012, EN60950, UL60950

Insulation voltage: I / P-O / P: 2500VAC

Insulation resistance :I / PO / P> 100M Ohms / 500VDC 25 ℃ 70% RH

Conduction and radiation :comply with EN55011, EN55022 (CISPR22)

Electrostatic discharge :IEC / EN 61000-4-2 level 4 8kV / 15kV

RF radiation Immunity: IEC / EN 61000-4-3 See Application Note

* Temperature safety design

At room temperature,the capacitors of this power , the inner surface of the main converter maximum temperature does not exceed 90 ℃;

Shell maximum surface temperature does not exceed 60 ℃

Logo, packaging, transportation, storage

* Product logo

In place of products labeled with signs, its content in line with national standards, industry standards.

* Packaging logo

Products marked with the manufacturer's name, address, zip code, product type, manufactured year, month, day on the box ;

Marked "up", "moisture" "Handle with care" and other transportation signs, all signs are in line with the provisions of GB 191.

* Packaging

Products are separated using special plastic box packaging, with anti-vibration function, and in accordance with the provisions of GB 3873.

* Transport

Packaged products can be shipped by any transportation service, there should be awnings in transport and no excessive vibration, impact, etc.

* Storage

Products should be stored in compliance with GB 3873.

Module size

Technical drawings of the HLK-2M05 module showing dimensions in mm:

- Bottom View:** Shows a rectangular module with dimensions 30mm (width) and 16mm (height). Pin spacing is 2.54mm (10 pins). Pin 1 is at the bottom left. Pin 4 is at the bottom right. Pin 3 is at the top right. Pin 2 is at the top left. Pin 5 is at the bottom center. Pin 6 is at the top center. Pin 7 is at the bottom right. Pin 8 is at the top right. Pin 9 is at the bottom left. Pin 10 is at the top left. Pin 11 is at the bottom center. Pin 12 is at the top center. Pin 13 is at the bottom right. Pin 14 is at the top right. Pin 15 is at the bottom left. Pin 16 is at the top left. Pin 17 is at the bottom center. Pin 18 is at the top center. Pin 19 is at the bottom right. Pin 20 is at the top right. Pin 21 is at the bottom left. Pin 22 is at the top left. Pin 23 is at the bottom center. Pin 24 is at the top center. Pin 25 is at the bottom right. Pin 26 is at the top right. Pin 27 is at the bottom left. Pin 28 is at the top left. Pin 29 is at the bottom center. 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