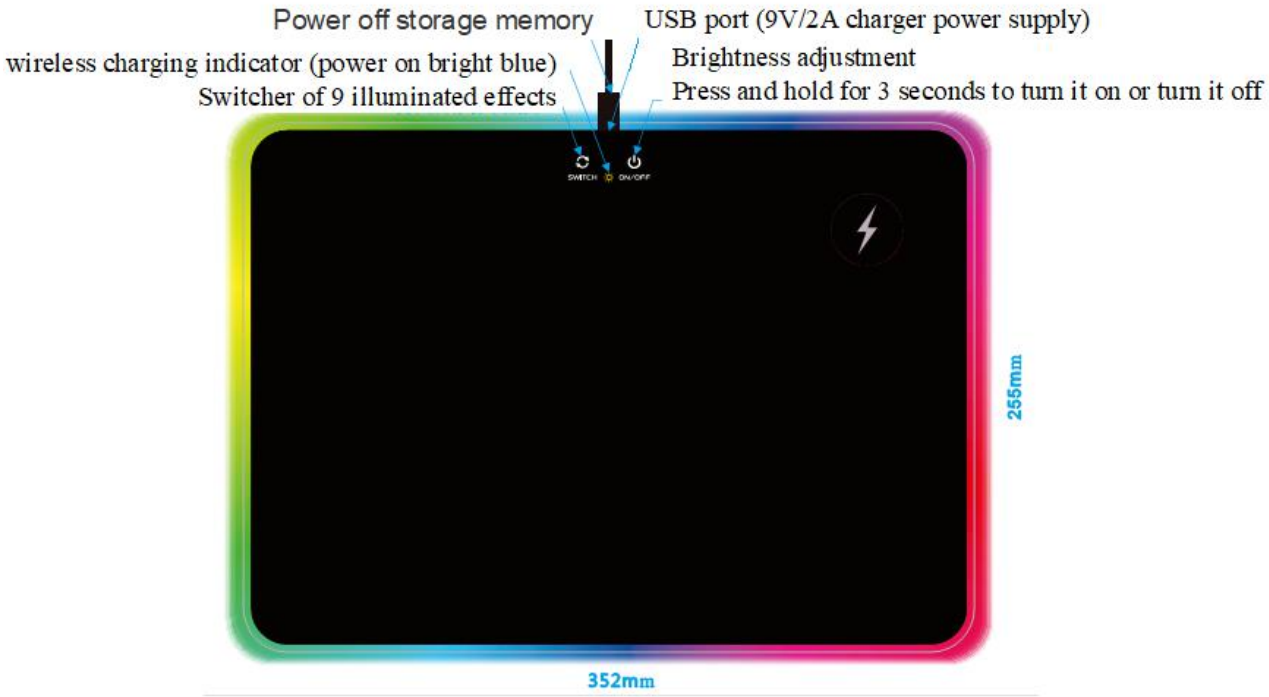
Specs&manual
Model no: P02
illuminated wireless fast charging Mouse Pad
(induction system: 1 coil, max. 10W)

Function description



10W single coil wireless fast charging specification

1.support Samsung 10W fast charge! support IPhone 7.5W fast charge function! (fast charge requires 9V adapter)

2.backward compatible with 5W ordinary wireless charging function!

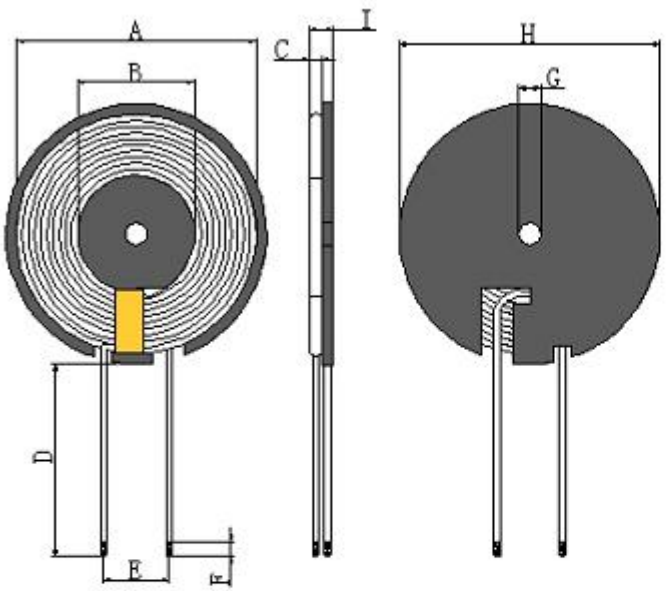
3.GPMQ8005B supports WPC, QI V1.2.3 certification !

4. undervoltage/overvoltage/overcurrent protection, bias protection and metal foreign body detection, protective measures against over temperature (about 65 ° C) !

5.This PCB has extra 5V 400mA output pins for additional connection to other devices! (Wireless charging is not affected)

6.Use A11 standard coil! (the coil size is stated in the below product specs).

一、尺寸 DIMENSION:(mm)



A	43.0±1.0
B	20.0±0.5
C	1.1±0.2
D	25±2
E	11.5 ref
F	2-4
G	5.2 ref
H	50±1
I	2.5 Max

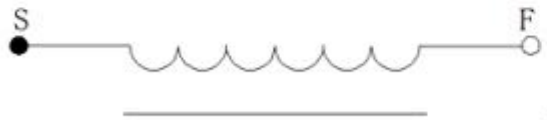
注：

1.交叉出线;

2.出线位置缠 8mm 宽度高温胶纸 1-2Ts;

3.线圈需贴磁片,磁片外直径 50mm,中间带孔 5.2mm,有 L 型线槽,厚度 0.8mm;

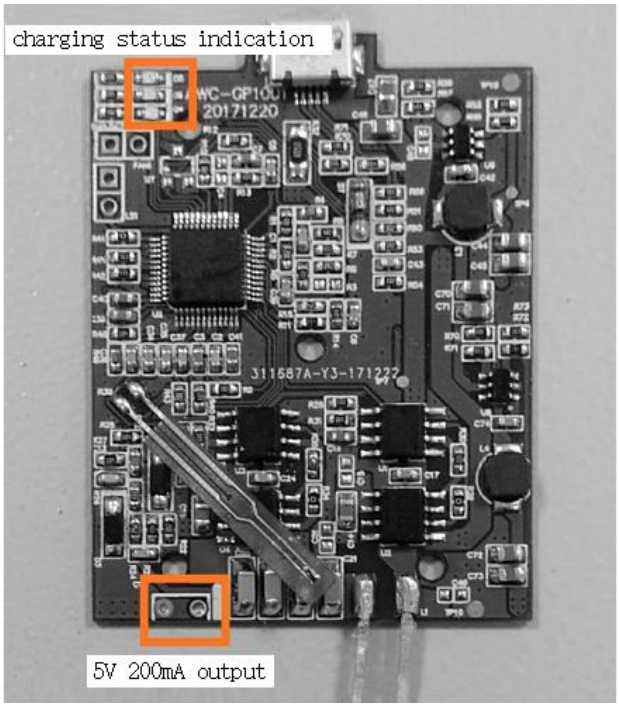
二、原理图 SCHEMATIC DIAGRAM:



三、绕线参数 Winding Specification:

序号 NO.	端子 TERMINAL		线径 WIRE	圈数 Turns	绕线方向 Winding Direction
1	S	F	丝包线 0.08*105P	10Ts	CCW

PCB screenshot



LED status indication

1. standby: LED4 (blue) is always on!
2. be charging: LED5 (red) is always on!
3. full charged: LED6 (green light) is always on!
4. abnormal status indication 1: LED5 (red flashing) means abnormality, for example undervoltage (less than 4.2V), metal foreign object is detected. Find the reasons out and take appropriate action to correct the deviation !
5. abnormal status indication 2: Transmit over current, receive overvoltage and overcurrent abnormalities! (LED 5; LED6 flashes until the user removes the mobile device!)

6. Over-temperature protection indication: LED5 (red light flashes and the wireless charging function is turned off, restart charging after about five minutes!)

summary of charging time

test mobile phone	phone temperature	total charging time 0%~100%	battery capacity
Iphone X	32.2 度 32.2 ℃	2 小时 58 分 **2 hours and 58 minutes**	2716mAh
Iphone 8 Plus	30.2 度 30.2 ℃	2 小时 41 分 **2 hours and 41 minutes**	2675 mAh
Iphone 8	29.8 度 29.8 ℃	2 小时 21 分 **2 hours and 21 minutes**	1821 mAh
Samsung Note 8	33.8 度 33.8 ℃	3 小时 24 分 **3 hours and 24 minutes**	3300 mAh
Samsung S8 Plus	37.0 度 37.0 ℃	2 小时 56 分 **2 hours and 56 minutes**	3500 mAh
Samsung S8	36.8 度 36.8 ℃	2 小时 48 分 **2 hours and 48 minutes**	3000 mAh
Samsung S7 Edge	37.2 度 37.2 ℃	3 小时 03 分 **3 hours and 3 minutes**	3600 mAh

FCC Warning Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.