

SHENZHEN BANSN TECHNOLOGY CO.LTD


SPECIFICATION FOR APPROVAL

CUSTOMER : _____ KYSHO _____
MODEL NO : _____ BM200/BM200P _____
Date Date : 2024.01.06
Version number: _____ V1.0 _____

Customer acknowledged (CUSTOMER APPROVE):

Proposed PREPARED	Review the CHECKED	Approval of the APPROVAL

BANSN:

Proposed PREPARED	Review the CHECKED	Approval of the APPROVAL
Zou Shuli	Hu Bin	

remarks:

Please confirm the sample OK, seal and sign to confirm back to our company, thank you! This papers and the attached samples are in duplicate, the customer shall hold one copy and the company hold one copy

The Shanghai Vuda solution system

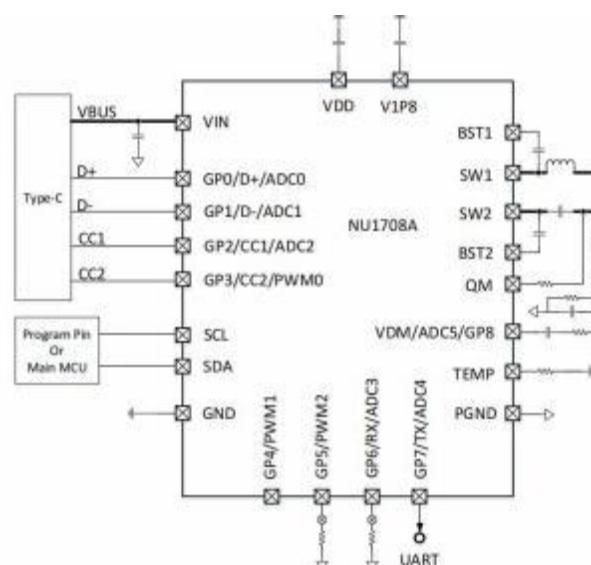
System name: 5W, wireless charging and transmitting module

Solution platform: Voda NU 1708A

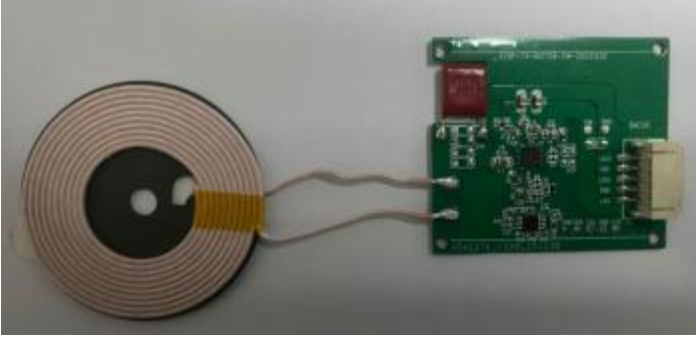
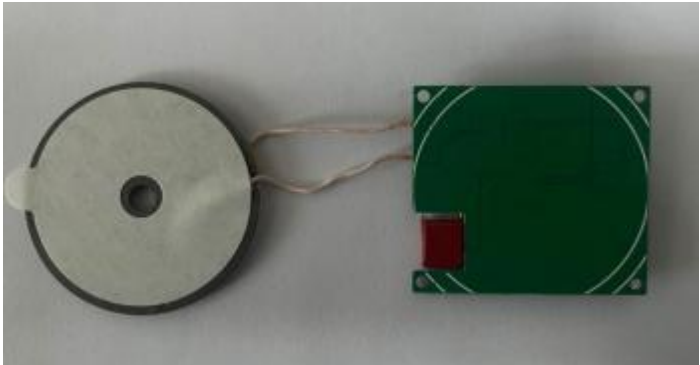
1. description:

This module is a 5W single coil wireless charging transmitter, designed by the third generation SOC NU1708A scheme. The proposed scheme integrates the high-precision Q-value measurement, Low-BER digit demodulation, Strong overvoltage protection (OVP), overcurrent protection (OCP), short-circuit protection (SCP), drop protection (OJP), Over-temperature protection (OTP), and foreign body detection (FOD), protection / error and other different conditions for prompt / alarm function, Ultra-low static current in dormant, mode: <math><20 \mu\text{A}</math>, Integrated QC / PD3.0 (PPS) / SCP / AFC protocol function; Compliance with the WPC-Q i V1.3 BPP standard, Operating frequency: 110KHz-205 KHz, During the operation of this module, The transmitting and receiving coils shall maintain a 2mm-6mm spacing.

1.1 System framework:



2. Specification and parameters:

product model	BM200/BM200P Version No.: 429P-TX-NU1708A-5W-20231230	
product type	5W TX	
Coil model	A11A	
Input power requirements	DC_5V	
Output maximum power	5W	
service frequency	110KHz-205KHz	
transfer efficiency	>70%	
Charging distance	2mm-6mm	
Charging area / DOF test	>10mm	
size	Length 45mm * width 40mm * height 6.65mm (including terminal socket, BM200 without socket)	
product picture	front	
	the back	

3. Input parameters:

input voltage range	5V±0.5
input current	Maximum input current of 2A
Dynamic power locking	When the input power supply is insufficient, the transmitter can actively reduce the power output
Standby power consumption	Lin(mA)= 15mA ,Ping(mW)<85mW

4. Protection function:

Output short circuit protection	In the case of receiver output short circuit, the transmitter stops working, and when the receiver is removed, the transmitter will resume normal operation;
Output over current protection	After triggering the overcurrent protection, the transmitter stops working and the transmitter will resume regular work when the receiver is removed;
Overtemperature protection	When the NTC temperature of the transmitter is higher than $75^{\circ}\text{C} \pm 5^{\circ}\text{C}$, the transmitter stops working, the temperature is reduced to 45°C , and the transmitter resumes normal operation;
Metal detection	When the larger than the coin metal is detected on the transmitter coil, the transmitter stops working and the metal is removed, the transmitter returns to normal work;
Foreign body detection	Under the normal operation of the transmitter and receiver, the coin size metal is inserted between the transmitting coil and the receiving coil, and the transmitter can stop working within 2 minutes;

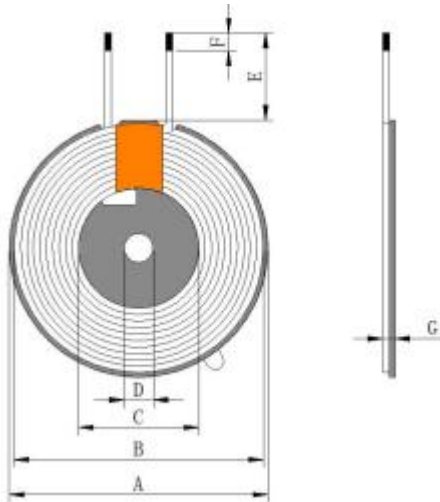
5. Environmental conditions:

working temperature	0°C-70°C
storage temperature	-20°C-80°C
Working humidity	10%-70%rh
Storage humidity	10%-80%rh

6.LED state:

LED	Operating state with a low level is valid					
	Uppower initialization	await the opportunity moment	charge	FOD/wrong	Overtemperature protection	be filled with
RED 27#LED 2	OFF	OFF	ON	OFF	OFF	OFF
GREEN 26#LED 1	OFF	OFF	ON	1Hz is flashing	1Hz is flashing	A 0.5Hz flash bright

7. Coil: (full copper slot)



A	$\Phi 44.0 \pm 1.0$
B	$\phi 42.0 \pm 1.5$
C	$\phi 20.5 \pm 0.5$
D	5.0 REF
E	35.0 ± 1.5
F	3.0 ± 1.5
G	3.4 MAX
LS	$6.3 \mu\text{H} \pm 10\%$