Z24. Suspend Driving 6 Resonant Periods

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It shows that there are metalic foreign objects.

Finally, the calculated slope of [4][5] is 118 which is lower than the critical line 150. It can be judged that there is a metal foreign object, but the power supply will not be cut off immediately. The result of the measurement will be added to the value of the scalar counter. If the value is added to the rated value or more, it is judged that a metal foreign object cuts off the power supply.

344 3 3 4

1 . 2 4







Z28. Less Suspending time Causes Smaller Impact of Joint

0.0s

20.00%/

264 3 3 4

停止

1.59V

4

2.00GSa/s

27-Feb 17:33

The focus of the joint is that the drive signal goes down along the waveform [1] The coil measurement signal is near the end of U4. When the U4 potential is decreased by 10, the coil signal will also be decreased.

The difficulty of this technique is that the coil signal has been out of control after the PWM is suspended. Therefore, it is necessary to perform the joint at the crossover point recapturing the drop of the coil signal.



10.0:1 DC

+95.6250V

10.01

U5 Output

2.00V/

5.00V/

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Coil Signal

2

3.

DC BW

-25.2600V

20.0V/

2

50.0V/

16.0

Z29. Joint and Lock Program

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Actual Program Operation [A] time point After the measurement value of [1][2] has been obtained, the slope is determined and no metalic foreign object is found based on the measurements, it is decided to joint the PWM. To recapture the coil signal, comparator 1 should be set to be interrupted. Level voltage of DAC1 is set to 0. When the resonant signal crosses 0V, an interrupt will be generated. Restart the PWM on the interrupt program. Since the PWM internal timer cannot be cleared separately, the entire PWM can only be closed for restart.

Complete the PWM restart at [B], the first PWM output switching occurs at [C]. Then the whole joint is completed.

Z30. The Shortest Length of Time of Suspending on Drive

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This is an application example of limiting the PWM pause time to an extreme value. Measuring the slope requires at least two points [1][2] but if the slope of the previous measurement [1][2] is within the safe range without metalic foreign objects, and the value of this measurement [1] is close to the previous [1], then it can be considered that the system is stable and there is no metalic foreign object. This design can minimize the interruption of power supply time.

For the sake of safety, even if mreasurement values of continuous [1] are similar in this design. It will also measure the slope of the [1][2] at a fixed time to confirm the detection status of the metalic foreign object again.

Z31. Detection of Auxiliary NFC Coils





Z33. Signal Configuration of the Simulated NFC Card Reader

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To detect an NFC device, you must firstly simulate a signal similar to NFC. [1] After starting the PWM drive, the coil starts to resonate. Because the driving force is small, the signal on the coil is not too large. The coil starts to transmit power then. If there is an NFC device above, it will start receiving power and prepare for startup. [2] The detection time is over and the PWM drive is stopped. [3] NFC device does not directly feed back the data code. The data request must be sent from TX before the feedback signal is started. In practice, it is difficult for the PWM to produce 13.56MHz which is an accurate frequency, so only the frequency with similar output can be used to drive the coil. In addition, the driving force of the IC port is limited.

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Z35. Discrimination on Signals After Data Request

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[1] track level section; DAC4 voltage will be close to the peak
[2] Data request is modulated to the NFC standard specification. The output is produced by simulation by suspending the drive.
[3] Check the signal of the bulge; increase the DAC4

voltage [4]Check the signal of the fovea; increase the DAC4 voltage

NFC modulation signals may be affected by factors such as location, label and card type. The data signal may be bulge or fovea. The purpose here is mainly to find the NFC signal features. The data which can completely decode the NFC data content is not required, so the discriminating method is to discriminate the forepart and rear part, and find out the bulge firstly and then find the fovea. [5] Stop the PWM drive after the data-detection time is over.

Z36. Fovea of Detection Signal Section MICROCHIP MASTERs 2019 [1] Check the fovea with a **Comparator4** Output Comparator4 Input D higher DAC4 voltage. No 5.00V/ 5.00V/ 5000/ 55.00% 50.00%/ 1.25V 2 trigger indicates that there is no 2 停止 NFC [2] Check the fovea with the 十凸 整朗波觸器 lower DAC4 voltage. If some parts have no trigger, it can be 下凹 部分没觸到 judged that there are NFC signal features. [3] In either section [1] or section [2], the NFC signal features are found, it can be judged that there is an NFC device. Do not turn on the wireless charging This action is only detected before the RX is not sensed. 3 判定為有NFC資料 After the RX sensor is used for power transmission, the inserted NFC will be immediately burned by the power from the wireless charging. Detection is unnecessary. 2.00GSa/s +0.0V -22.9375V

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1 N N

10.0

24-Apr 16:41

Z37. Bulge of Detection Signal Section

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[1] Check the bulge with a higher DAC4 voltage. Some triggers are found to indicate the presence of NFC signal features [3]
[2] Check the fovea with the lower DAC4 voltage. If the entire segment is not triggered, it can be judged as NFC-free.

The NFC device will feedback the data code within a fixed time after receiving the data request modulation signal. The modulation signal will change on the coil. After the data request, the design confirms whether there is NFC signal feature in the time during a wait for the signal modulation. After the scheduled time for receiving data, the detection ends.



Z38.Practical Requirements of FOD on Products

1. The FOD function is a standard accessory of every product instead of an optional one. As long as the power is transmitted through the coil, there will be problems with foreign matters being heated.

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- 2. The FOD function requires that the power for wireless charging should prevent the foreign matters from being heated to the point where it is dangerous.
- 3. The standard for foreign object detection can help turn off wireless power transmission when an object is that heated to a dangerous level is detected.
- 4. The detection is fast during power transmission, so that the the power transmission can be turned off before an inserted metalic foreign object is heated to a dangerous level.

5G FWA (CPE) wireless power transmission application

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Coil size : 100mm*100mm Induction distance: 5mm~30mm Power transmission performance:

Distance 5mm / efficiency 92% Distance 25mm / efficiency 85% Maximum transmission power: 100W Standard operating voltage DC 24V





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US PATENT LIST

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