

EXHIBIT 12

Regulatory Submission Support for the Vuse Solo
Electronic Nicotine Delivery System (ENDS)

Project Ref #: RJR013

COMPANY CONFIDENTIAL

TITLE Vuse Solo Product Narrative		DOC. NO. ID-13814	REV. 0.5
PREPARED BY _____	DATE _____	APPROVED BY <i>Eric T. Hunt</i>	DATE <i>10/21/2020</i>
REVIEWED BY _____	DATE _____	APPROVED BY _____	DATE _____

In the event that aerosol condensation forms within the flow-tube or air chamber within the cartridge, the mouthpiece cap includes a design feature (a small lip, shown in Figure 14) intended to minimize the condensate from exiting the cartridge in the event the unit is held with the mouthpiece cap in the downward direction.

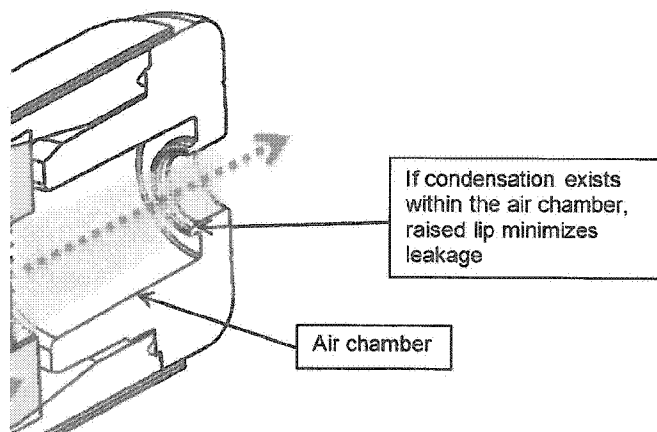


Figure 14 – Mouthpiece Cap Detail (Representative of both G1 and G2)

3.2.3.3 Cartridge-to-Power Unit Interface

Attachment of the cartridge to the power unit utilizes a snap-connection. Three electrical contacts connect the power unit to the cartridge. Two of the contacts are used in the heater circuit (positive and negative), while the third is used for serial communication.

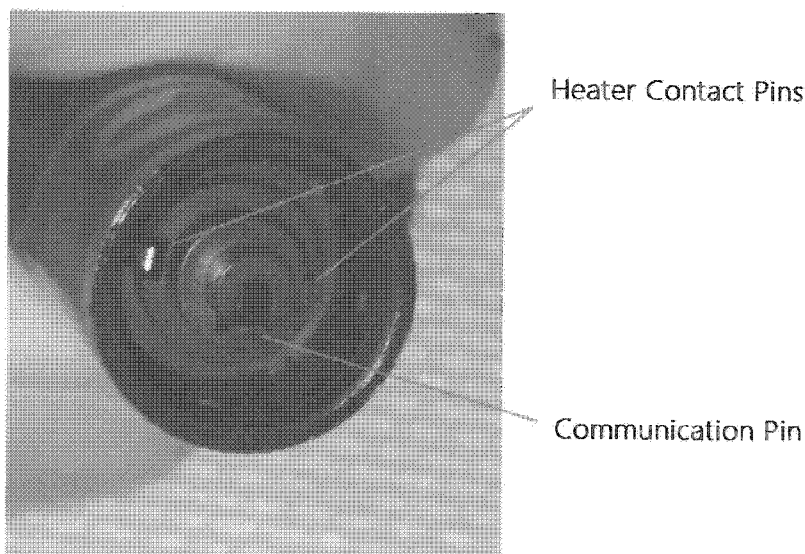


Figure 15 – Contact Pins on the Cartridge

The power unit controller is a custom Printed Circuit Board (PCB) providing the following features:

- Detects when a consumer takes a puff
- Communicates with the cartridge as described in 3.2.3.3
- If the cartridge is valid, the power unit turns on the heater
- Controls the power level applied to the heater
- Controls maximum on-time for the heater unit (puff duration limiting)
- Monitors heater coil resistance for both short and open circuits
- Illuminates the LEDs to provide visual indications to the consumer of the power unit status
- Regulates battery charging, monitors battery voltage, and determines battery charge level
- Prevents battery charging at temperature limits

3.2.3.6 Accessory USB Charging Adapter

The accessory USB charging adapter (Figure 3) is provided for use with the Vuse Solo power unit and can be plugged into any standard USB port. The charging adapter simply transfers the USB port's nominal 5V power to the connection points on the power unit.