

868/915MHz PFC ANTENNA

SWA4389



Features & Applications:

- Flexible PCB Antenna
- I-PEX MHF 4L connector with 100mm cable
- Cable and connector can be customized
- Devices with ISM 868MHz / 915MHz radios
- M2M, IoT
- Metering, Industry automation

ELECTRICAL SPECIFICATIONS @ 25°C

General Specifications

| Antenna type | Nominal Impedance | Polarization | Radiation pattern |
|--|--|--------------|-------------------|
| Dipole | 50Ω | Linear | Omni |
| Frequency (MHz) | 860~930 MHz | | |
| Return Loss | <-5dB | | |
| VSWR | < 3.5 | | |
| Efficiency (%) (pasted on 1.5mm thickness plastic plate) | 860 - 870MHz band: 35% 900 - 930MHz band: 37% | | |
| Gain (dBi) (pasted on 1.5mm thickness plastic plate) | 860 - 870MHz band: 2.8±0.2dBi 900 - 930MHz band: 3.0±0.2dBi | | |

MECHANICAL SPECIFICATIONS

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| FPC Dimension (Length x Width) | Color | Cable OD | Connector Type | Cable length |
|--------------------------------|-------|----------|----------------|--------------|
| 37mm x 9mm | Black | 1.13mm | IPEX MHF 4L | 100mm |

ENVIRONMENTAL SPECIFICATIONS

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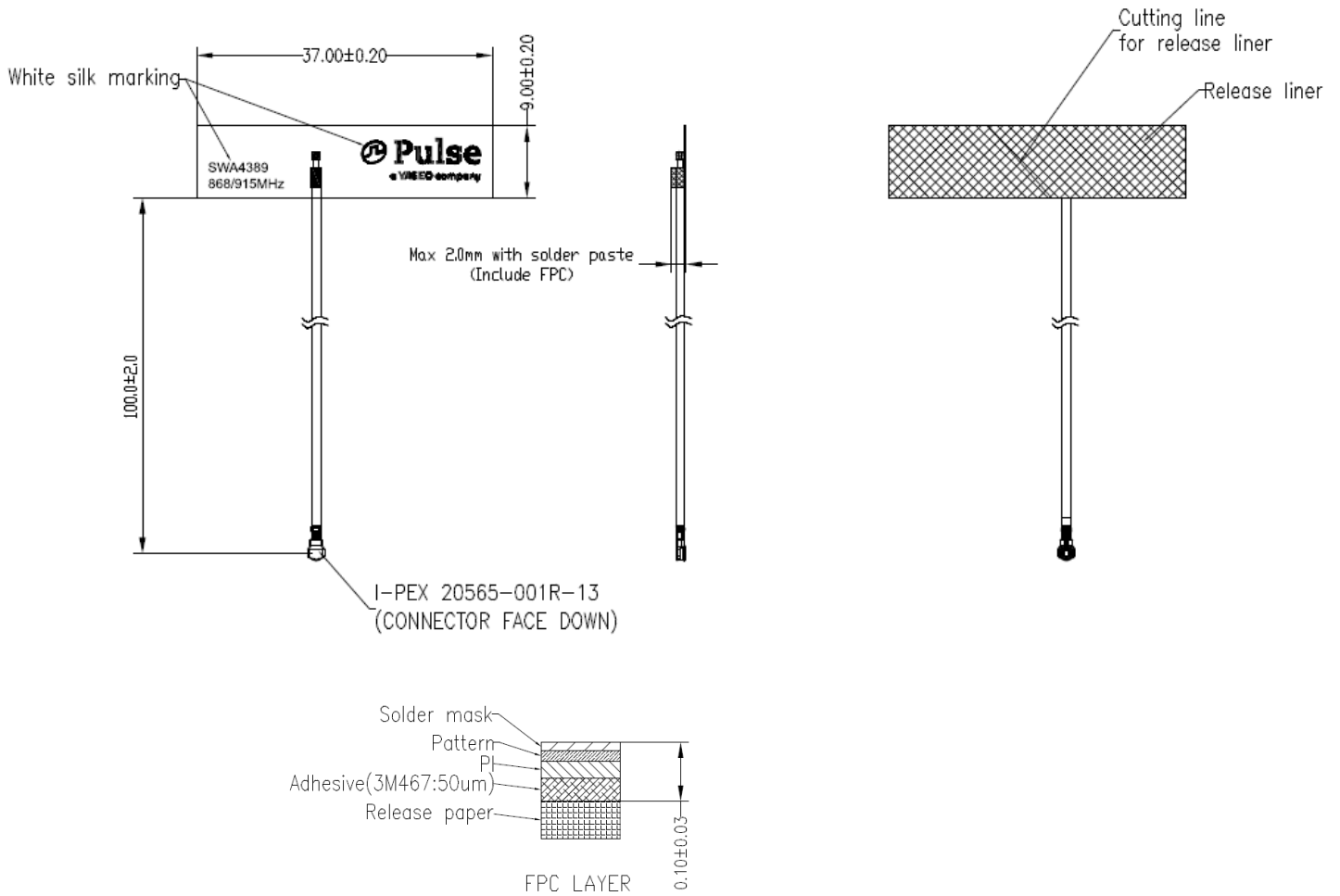
| Storage Temperature | Operating Temperature | RoHS Compliant |
|---------------------|-----------------------|----------------|
| -40/+85° C | -40/+85° C | Yes |

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Mechanical Drawing

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Units: mm

Application Specification

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During the assembly of the antenna in a device, the cable needs to be positioned away from the antenna flex to achieve the best performance. The cable must be away from the flex edge at least 5mm as shown in figure 1. If the cable bends into the antenna flex, the antenna performance will be degraded.

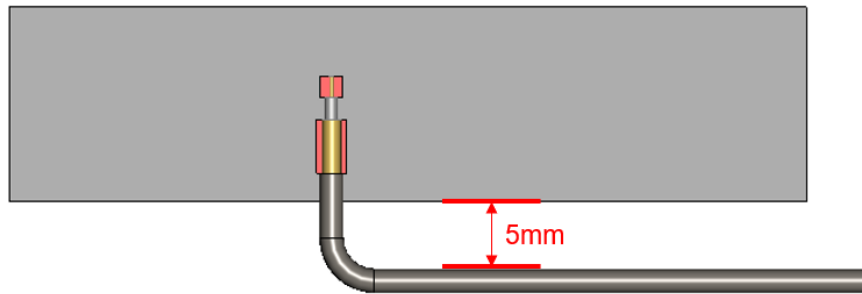


Figure 1 Cable Bending

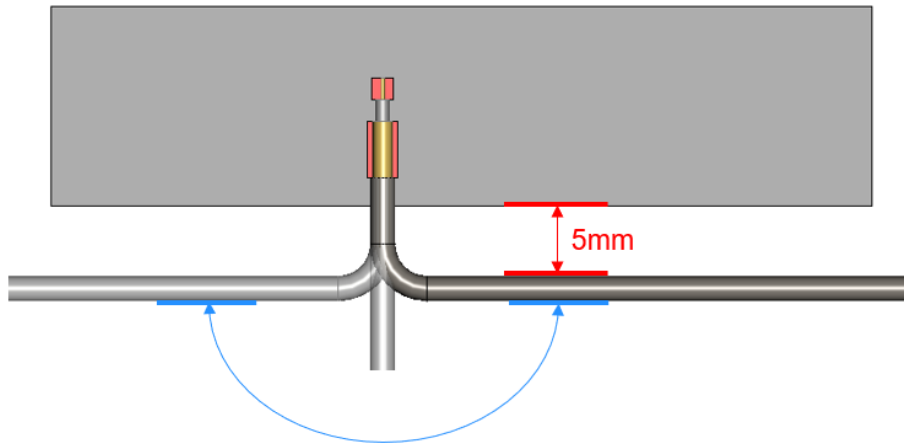


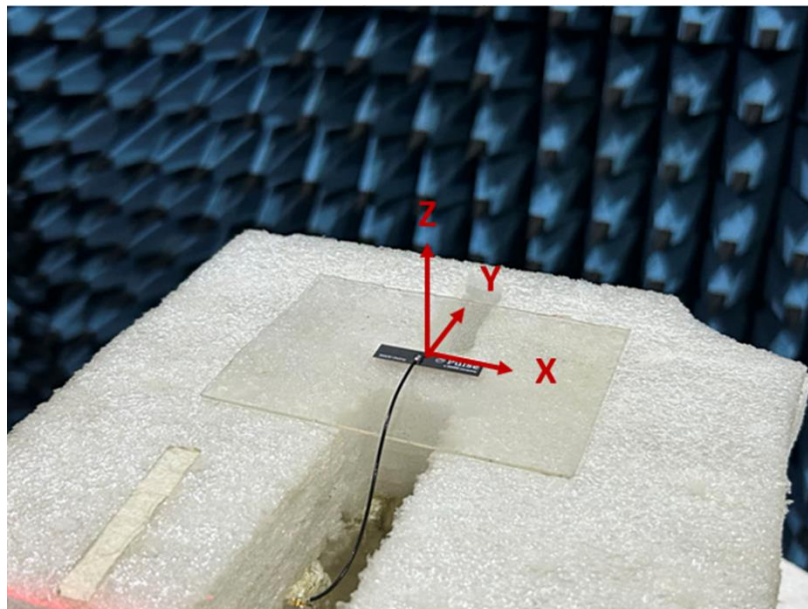
Figure 2 Cable Activity Range

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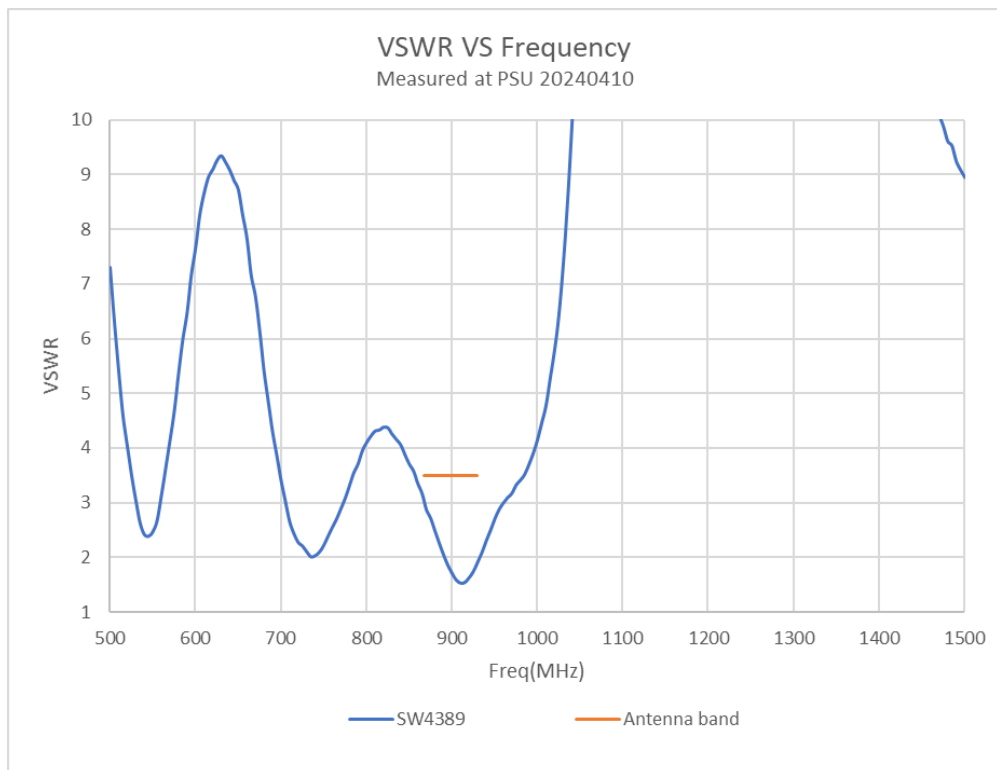
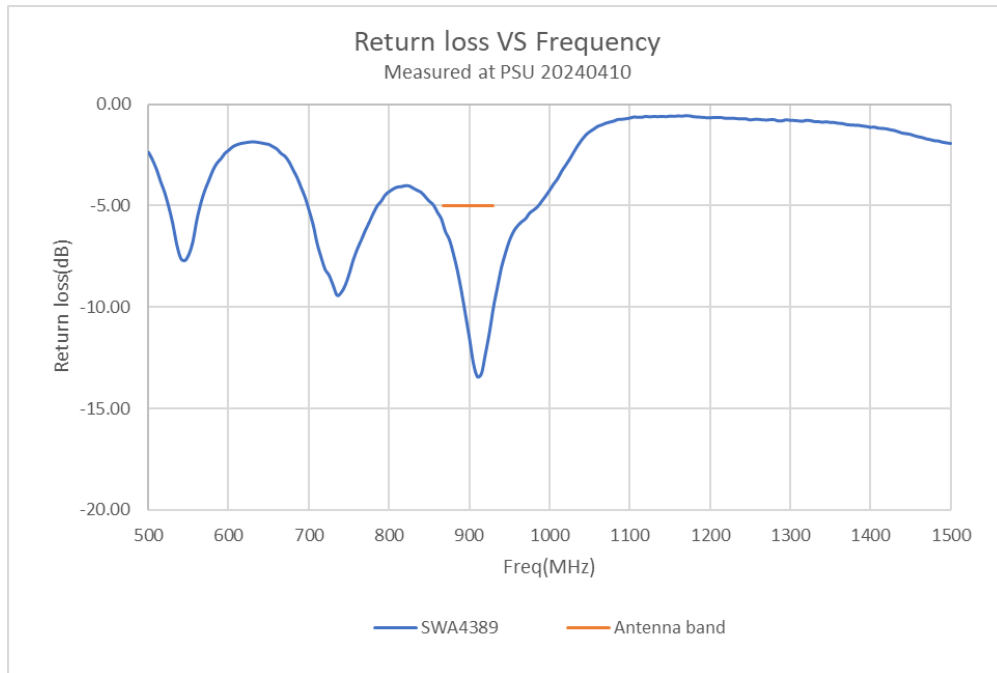
Test setup (pasted on 1.5mm thickness plastic plate)

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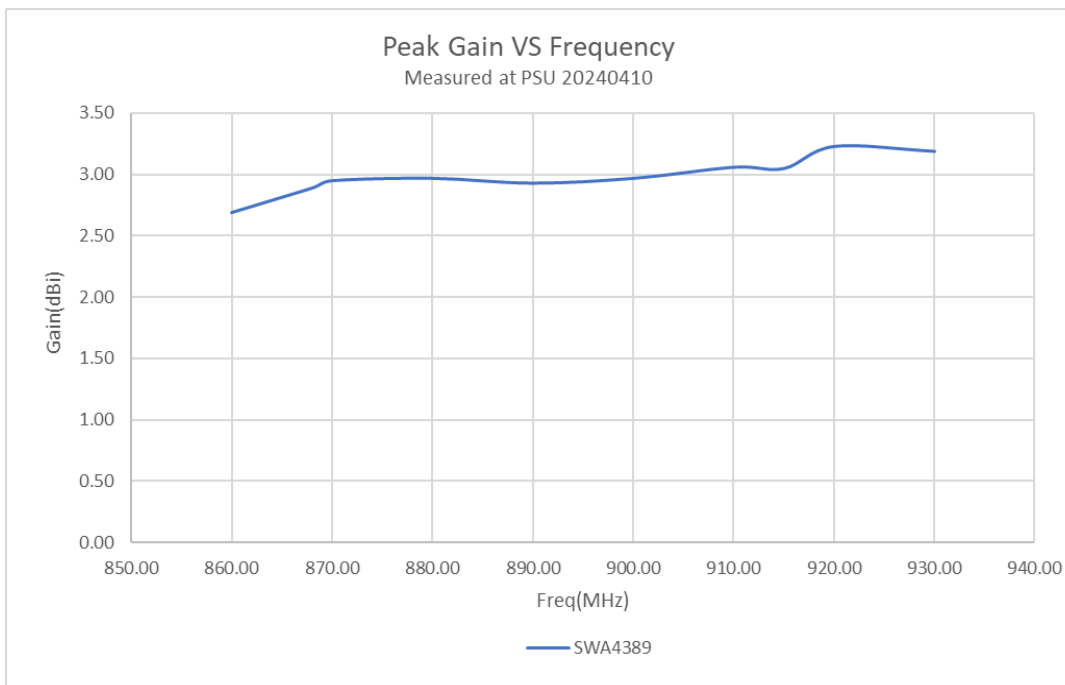
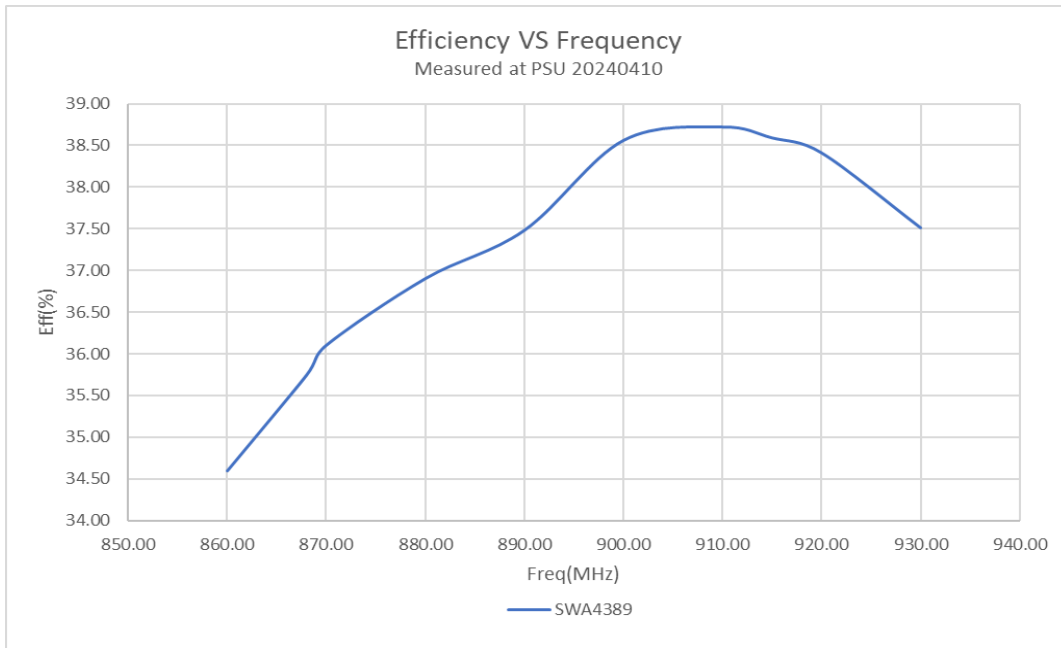
Charts- Antenna Return loss & VSWR

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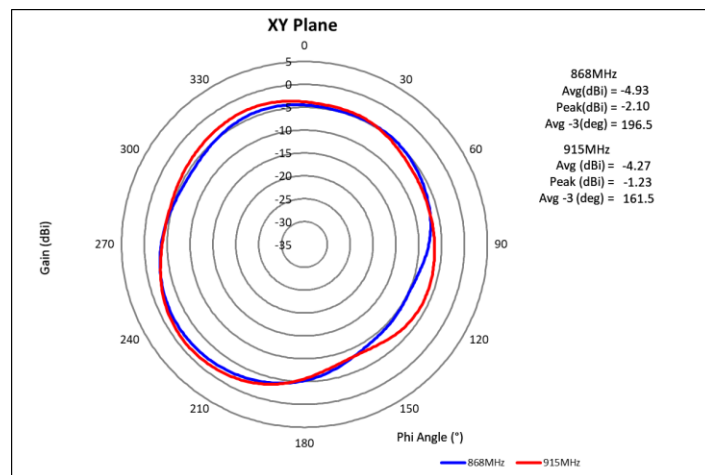
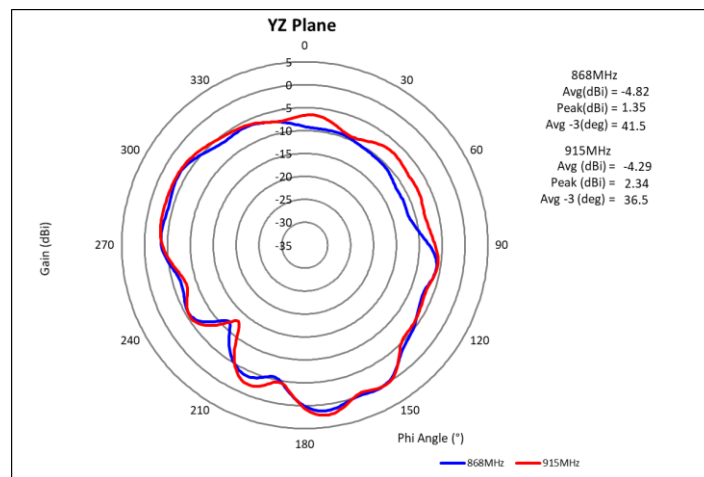
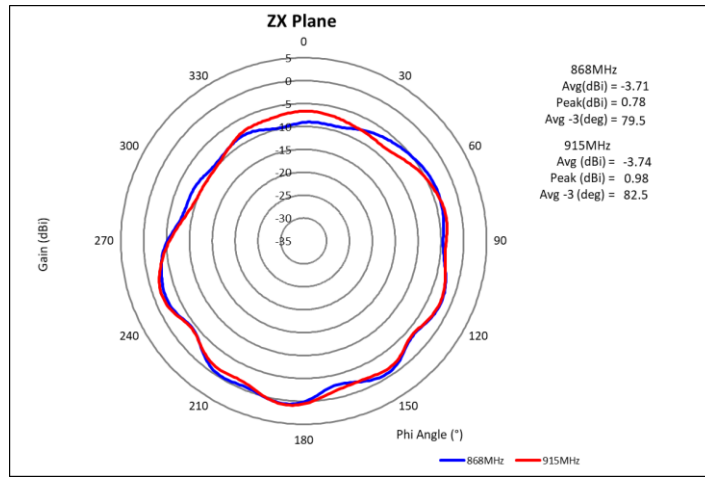
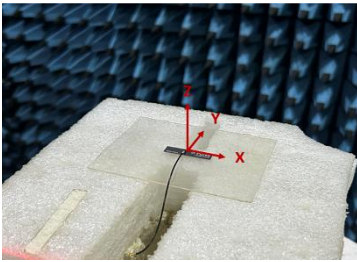
Charts – Efficiency & Peak Gain

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Charts – Antenna Radiation Gain Pattern

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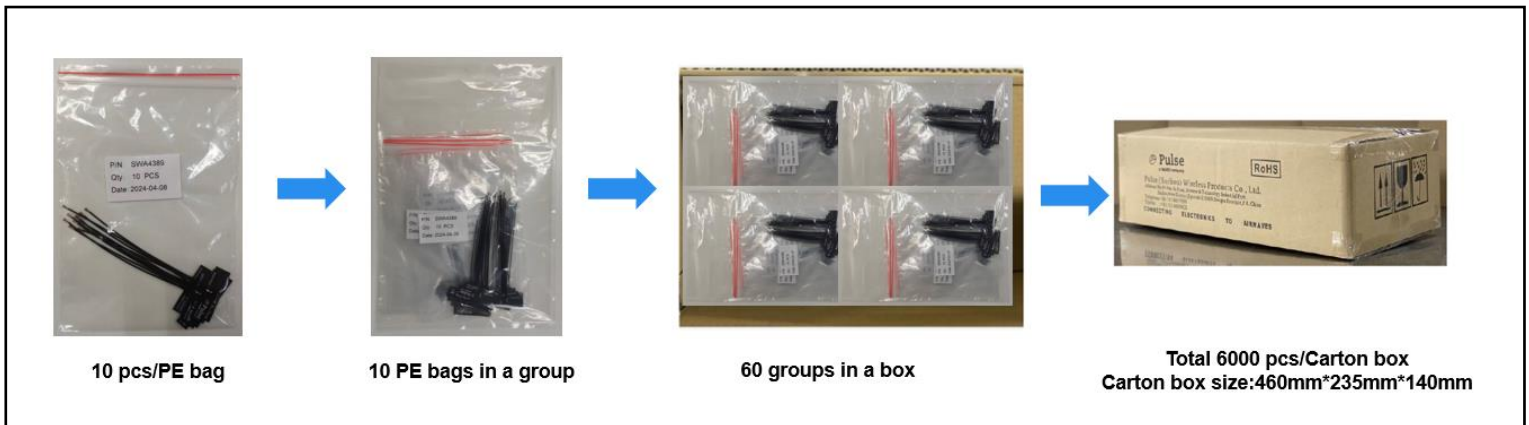
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PACKAGING

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1. 10 Pcs/PE bag
2. 10 PE bags in a group
3. 60 groups in a box
4. Total 6000 pcs/Carton box
Carton box size: 460mm*235mm*140mm.



For More Information:

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