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868/915MHz PFC ANTENNA

SWA4359

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: 33%
Gain (dBi) (pasted on 1.5mm thickness plastic plate)	860 - 870MHz band: 2.3±0.3dBi 900 - 930MHz band: 2.2±0.2dBi

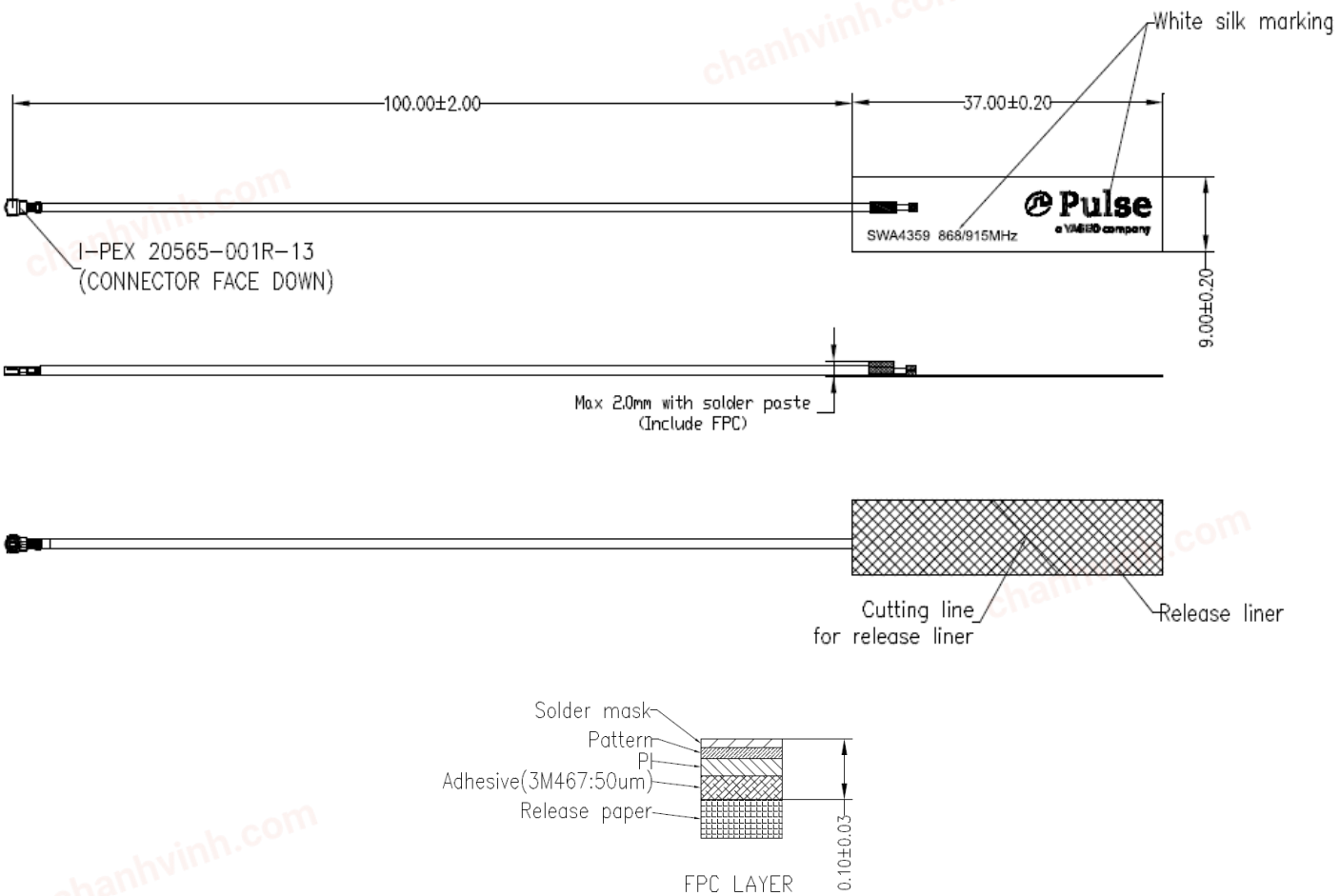
MECHANICAL SPECIFICATIONS				
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FPC Dimension (Length x Width)	**Color**	**Cable OD**	**Connector Type**	**Cable length**
37mm x 9mm	Black	1.13mm	IPEX MHF 4L	100mm

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

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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

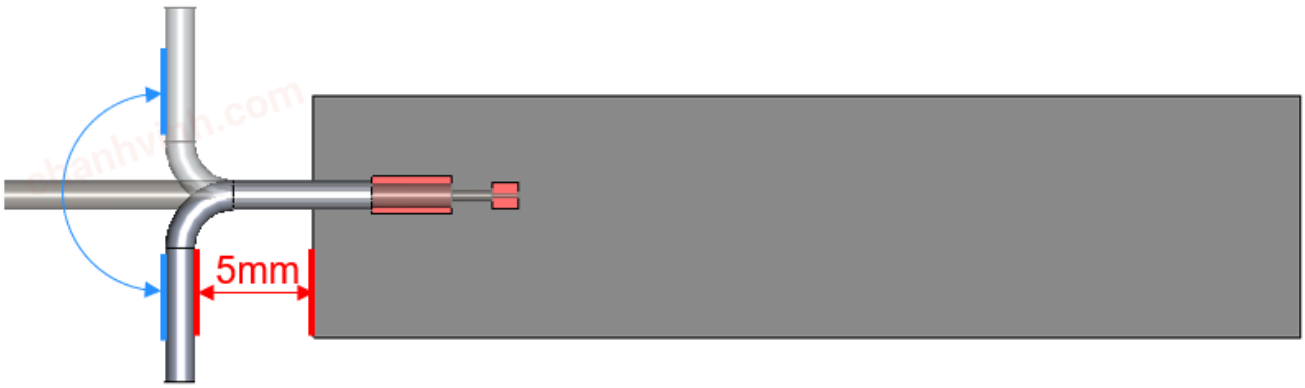


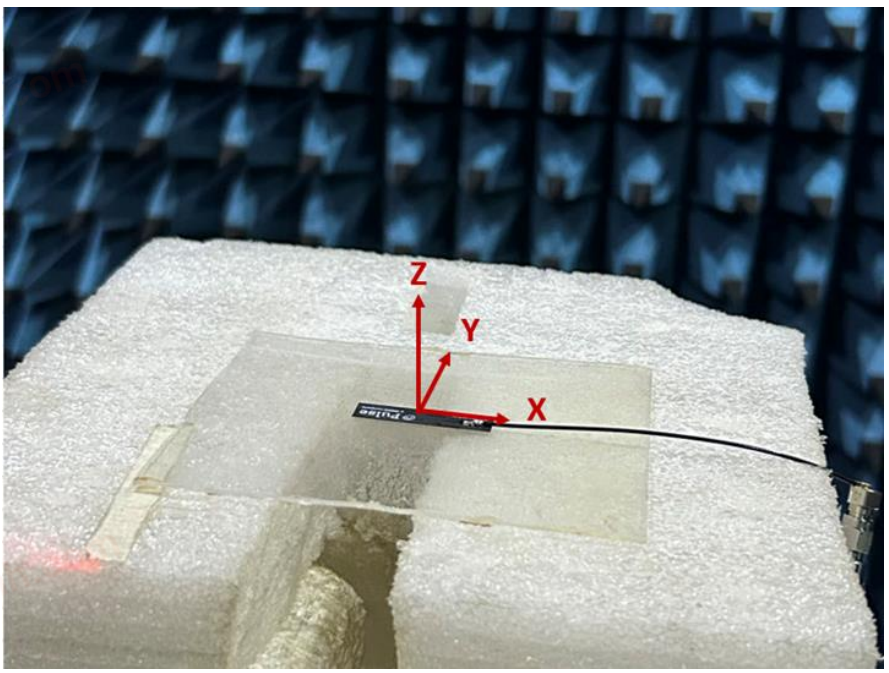
Figure 2 Cable Activity

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Test setup (pasted on 1.5mm thickness plastic plate)

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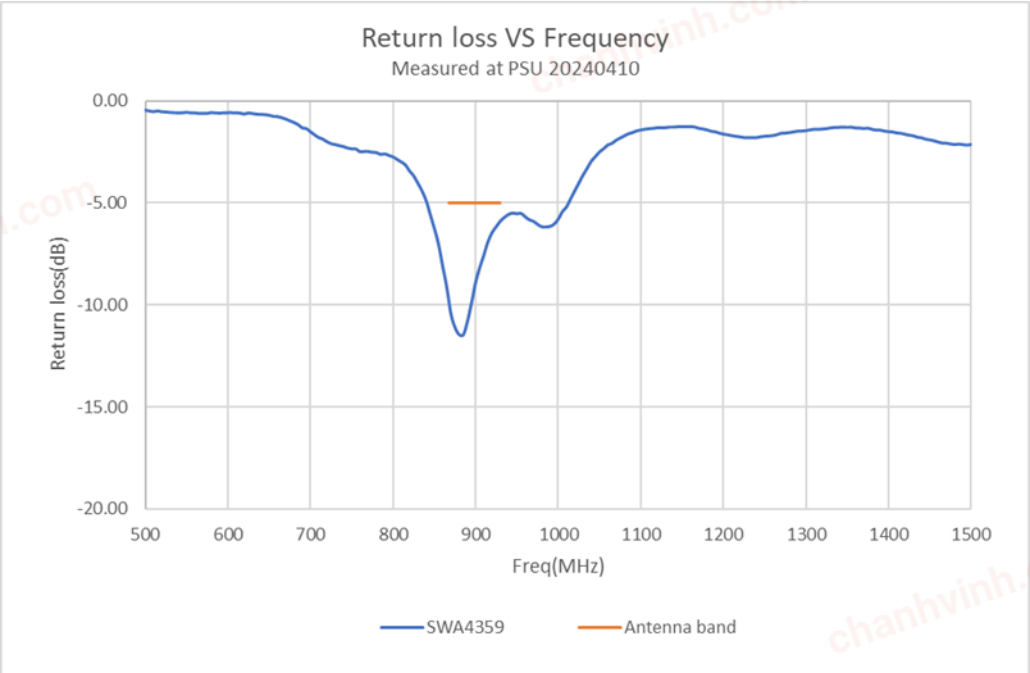


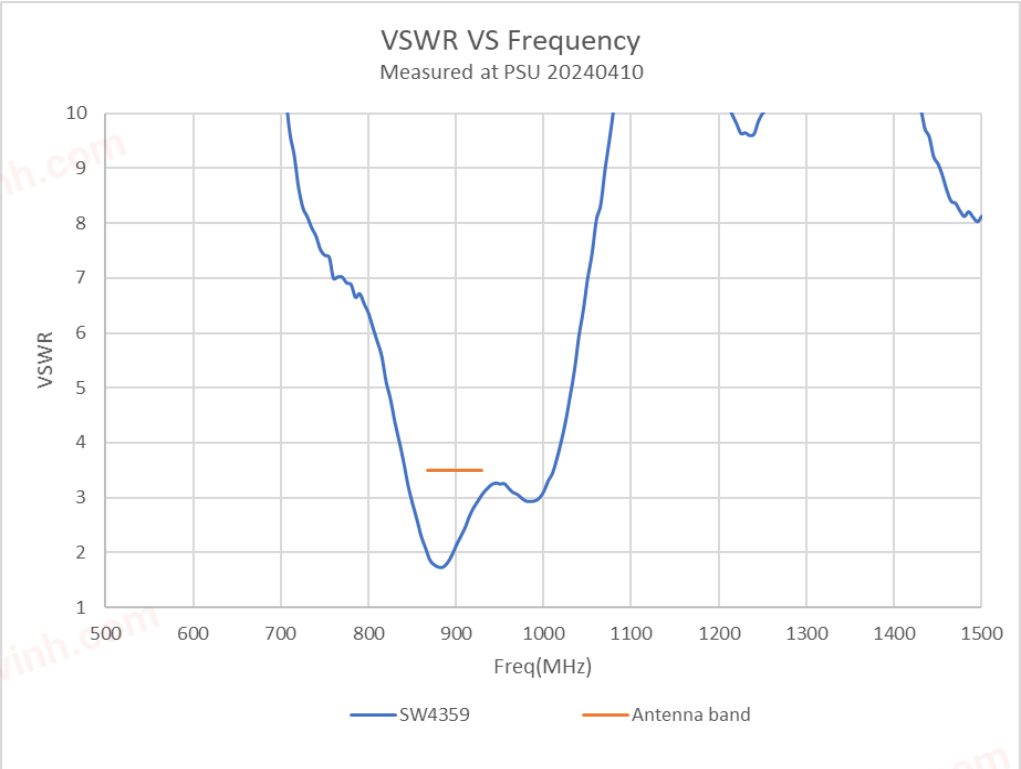


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Charts- Antenna Return loss & VSWR

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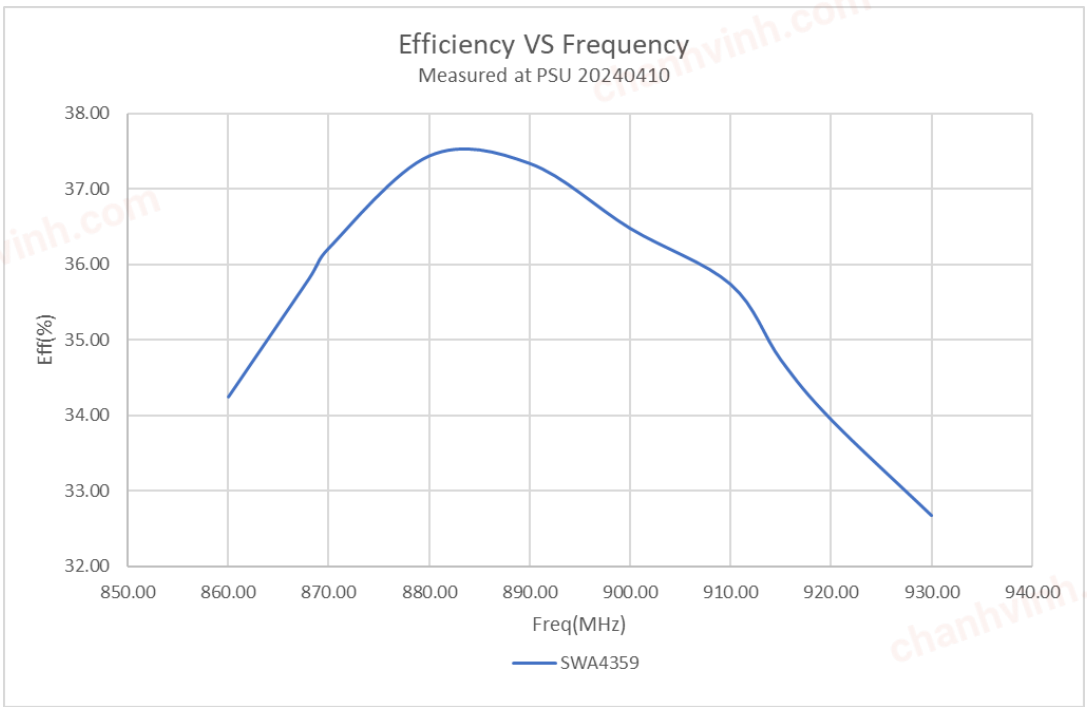


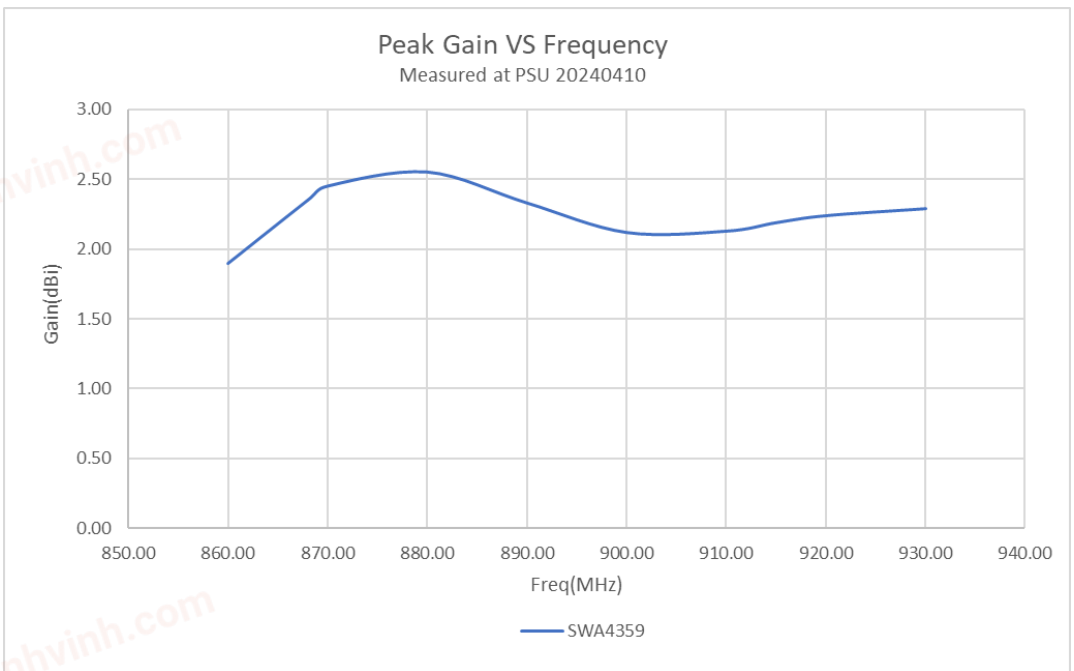


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Charts – Efficiency & Peak Gain

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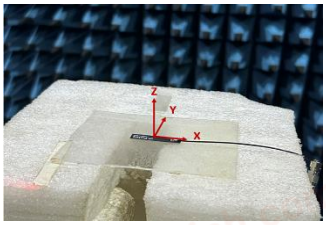


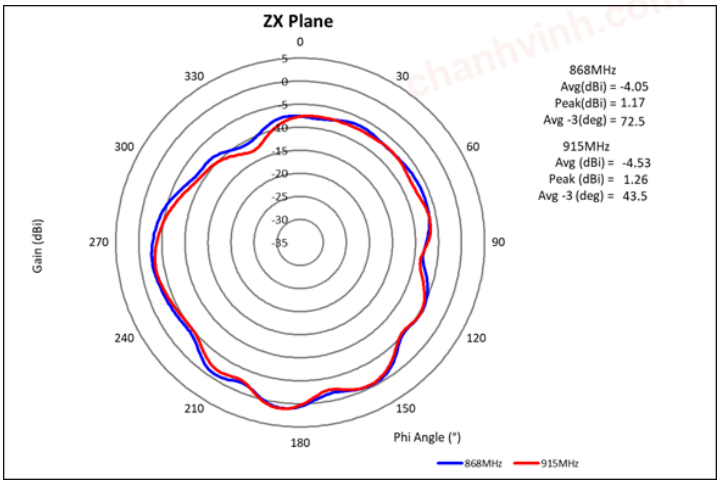


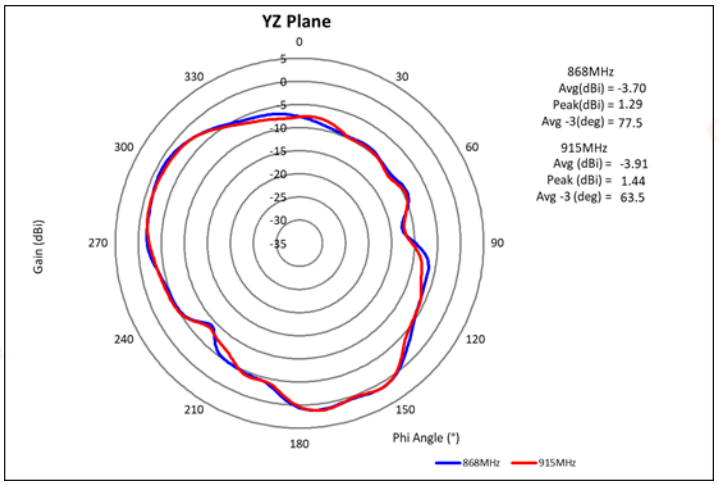
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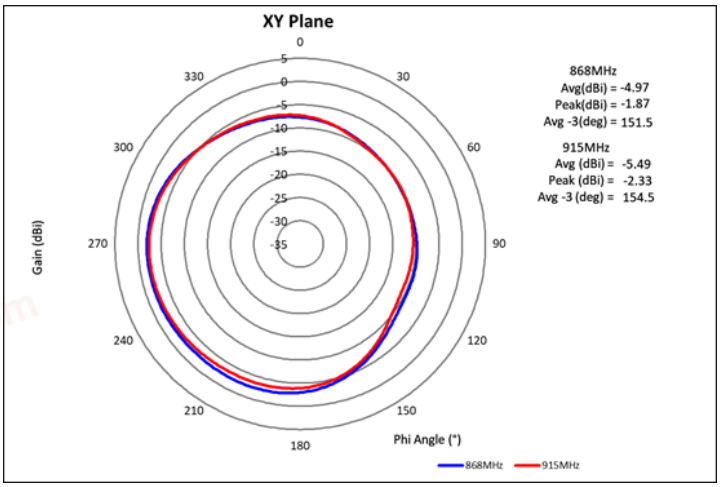
Charts – Antenna Radiation Gain Pattern

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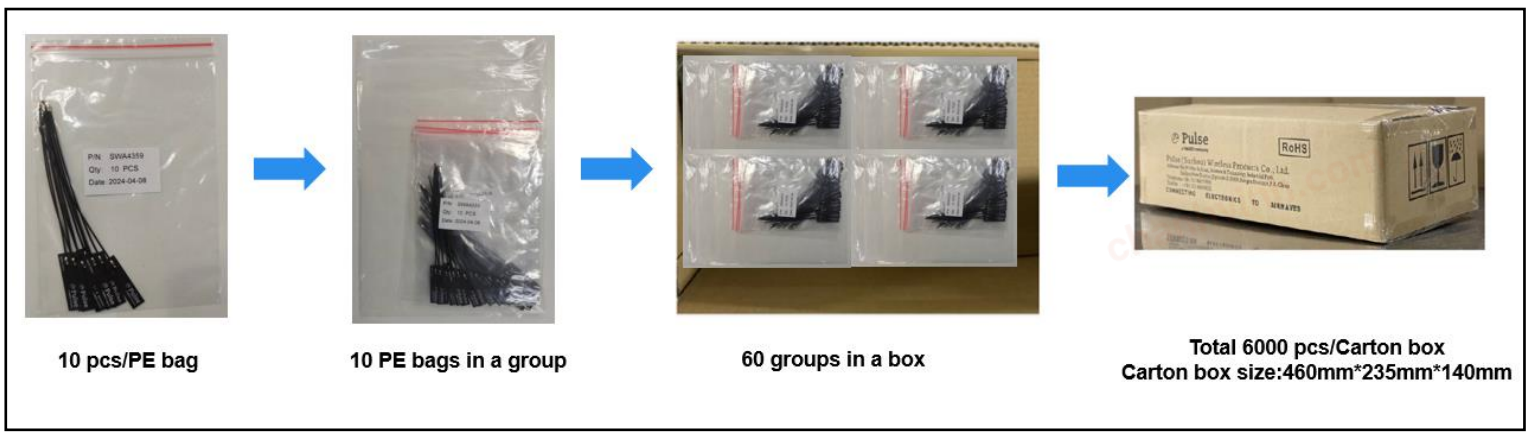


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PACKAGING

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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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