



Features & Applications:

- Qi standard MP-A13 TX coil
- Size: 91.8mm*55mm
- Height: 4.25mm Max
- Adhesive mount
- Compliance with RoHS and Halogen Free.
- Consumer Electronics, Home Appliances, Automotive Industry, Medical Devices, Industrial Applications, Public Facilities, Education and Office.

Electrical Specifications @ 25° C						
MP-A13-COIL						
WPC type	Inductance(uH) (Two bottom coils)	Inductance(uH) (Top coil)	Rdc(mΩ)	Idc(A)	Q (ALL coil)	Testing Environment
MP-A13	12.5+/-10%	11.5+/-10%	65Max	7.0Max	84Min	100KHZ/1V

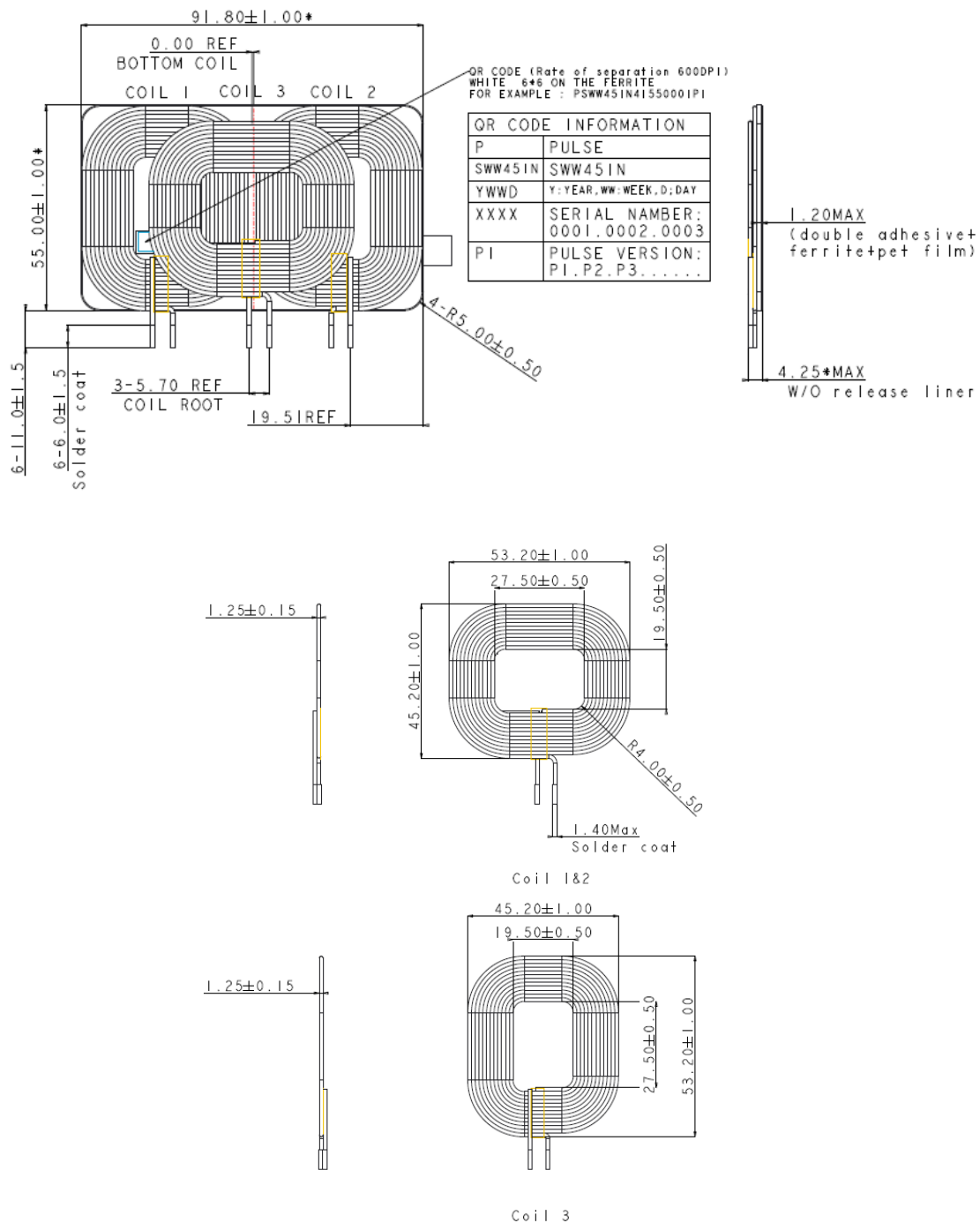
Mechanical Specifications				
Orderable PN: SWW451N				
Size (mm)	Weight (g)	Wire Spec	Top coil	Bottom coil (2X)
91.8x 55x 4.25Max	34.5	0.08mm*105strands (USTC)	12turns/Single layer	12turns/Single layer

Notes:

1. Storage Temperature: -40°C to +85°C.
2. Operating Temperatures: -40°C to +85°C.
3. All test data is referenced to 25°C ambiance.

Mechanical Drawing

SWW451N



Dimension Unit: mm

Electrical specifications

SWW451N

Test Item	Specification	Test Condition	Test instrument
L1&L2	12.5uH±10%	100KHz 1.0V	HP428A PRECISION LCR METER
L3	11.5uH±10%	100KHz 1.0V	HP428A PRECISION LCR METER
DCR1&DCR2&DCR3	65 mΩ Max		
Ope.Temp	-40 TO 85°C		HC-D3M TEMP& HUMIDITY CHAMBER

BOM List

SWW451N

ITEM	Part name	Specification	QTY
1	COILA&COILB&COILC	105 STRANDS OF 0.08MM COPPER WIRE(40AWG); USTC LITZ WIRE 12TURNS.	1
2	FERRITE ASSEMBLY	PET FILM BLACK(FERRITE TOP SIDE) T=0.05mm + MnZn ferrite(PC95)+double adhesive T=0.15mm 3M9448A	1
3	Glue	The Glue Silicone:AS-126T OR TM704 the glue is for 3coils,UV(U2) FOR COIL LEAD WIRE,	
4	QR CODE	White PET FILM 6*6mm T=0.1mm	1
5	Sn Plate	Sn99.3% Cu0.7%	

Package

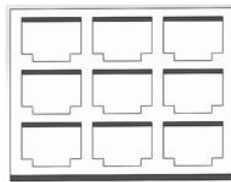
SWW451N

Tray packing:

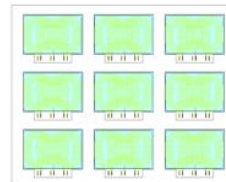
9pcs/tray, 10pcs tray/box, total 90pcs/box



1pcs



9pcs/tray



10pcs tray/box



total 90pcs/box

For More Information:

Americas - antennas.us@pulseelectronics.com | Europe - antennas.eu@pulseelectronics.com | Asia - antennas.as@pulseelectronics.com | Questions? +1-800-ANTENNA
Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright , 2020. Pulse Electronics, Inc. All rights reserved.
Company address: Pulse Electronics, a YAGEO Company, 15255 Innovation Drive, Suite #100, San Diego, CA 92128

'YAGEO Corporation and its affiliates do not recommend the use of commercial, automotive, and/or COTS grade products for high reliability applications or manned space flight.'