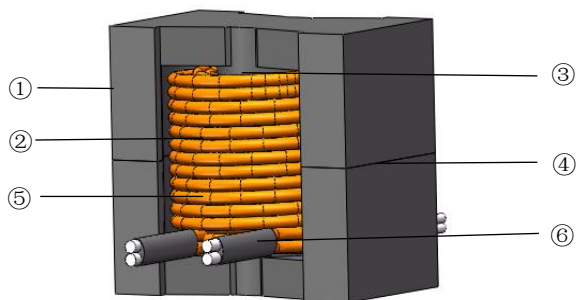


## Proposal of Automotive LLC Transformers for ATWPPQ656264A200P

Approved By	Checked By	Prepared By
Jinbo Cai	Zhou Zhang	Minglei Yang
2020/4/1	2020/4/1	2020/4/1

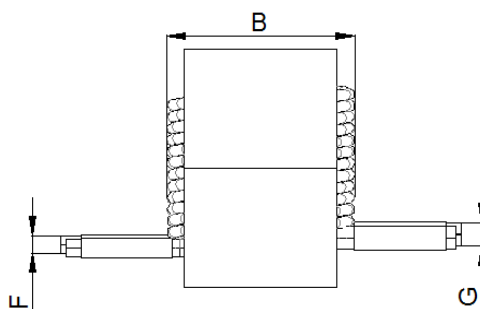
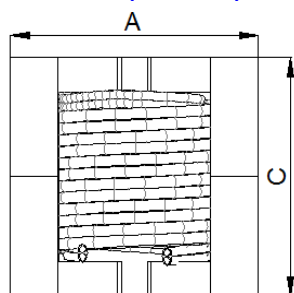
Note: This is a preliminary proposal and the final product P/N, Structure, Shape and Dimensions, Electrical Characteristics may be changed. You are requested to confirm and approve our spec.

### 1. Structure and Material



No.	Part Name	Material Name
①	Core	Mn-Zn Ferrite TPW33 or Equivalent Material
②	Wire	Primary: Mylar Wire Ø 0.08mm*780P
		Secdary: Mylar Wire Ø 0.08mm*450P
③	Bobbin	Phenolic
④	Glue	Epoxy
⑤	Tape	Kapton Tape
⑥	Tube	Poly Tetra Fluoro Ethylene

### 2. Shape and Dimensions (unit: mm)



Note : For RoHS Compliant Products:

1. Solder : Sn /Ag /Cu .

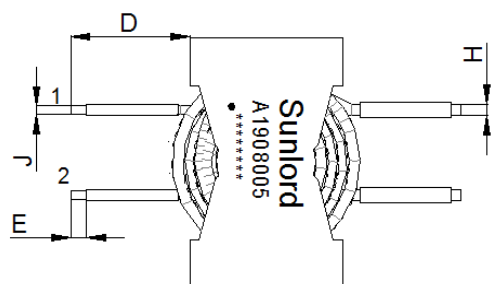
2. Marking Code: Sunlord A1908005

3. Date Code: : \*\* \*\* \*\*\*\*  
① ② ③

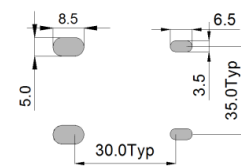
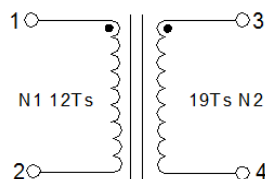
① Year

② Week

③ Trace Code



Shape and Dimensions



Recommended PCB Pattern

Item	A	B	C	D	E	F	G	H	J
Sunlord Spec.	66.2Max	52.0Max	62.5Max	100.0Min	7.5±1.0	7.5±1.0	5.0±1.0	2.3±0.8	3.7±0.8

### 3. Electrical Characteristics ( Operating Temperature: - 40℃ to + 125℃; Operating Frequency: 200kHz)

Sunlord P/N: ATWPPQ656264A200P

Parameters	Inductance	Leakage Inductance (Lk)	Q	DCR		HI-POT		Turn Ratio
Unit	uH	uH Max	Min	mΩ Max		/		Ts
Test Terminal	Pin(1-2)	Pin(1-2), shorted all other pins	Pin(1-2)	Pin(1-2)	Pin(3-4)	Pri to Sec	Sec to Core	Pin(1-2):Pin(3-4)
Sunlord Design	48.0 ± 7%	1.2	40.0	5.5	17.0	3000Vac/50Hz / 60sec/1mA	3000Vac/50Hz / 60sec/1mA	12:19 ± 0.5Ts
Test Condition	Measured at 100KHz, 1.0V 25°C			Measured at 25°C		Measured at 25°C		Measured at 15.75KHz, 1.0V 25°C

Note: • Resistance to reflow soldering heat in accordance with JEDEC J-STD-020D with 245 °C for 10 seconds

• MLS level 1 • RoHS compatible