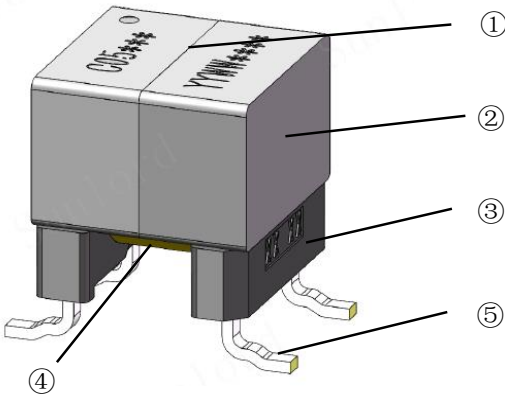


Proposal of Pulse Transformer for Automobiles  
(ALTW0805C-C05TF)

Approved By	Prepared By
Jinnan Liu	Yongshun Zheng
2023/9/3	2023/9/3

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.

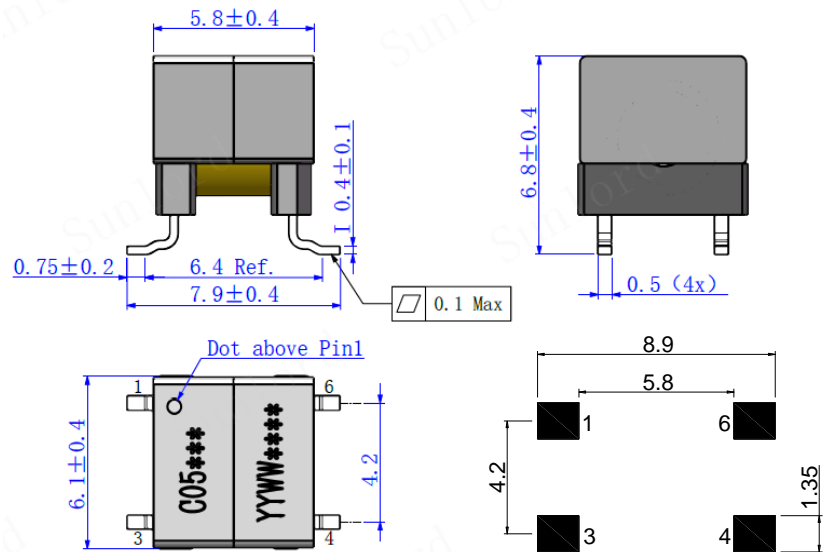
1. Structure and Material



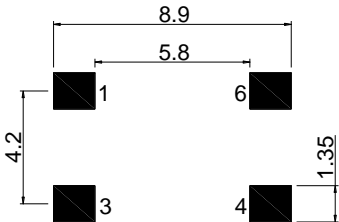
No.	Part Name	Material Name
①	Glue	Epoxy
②	Core	Mn-Zn Ferrite
③	Bobbin	Phenolic
④	Wire	Polyurethane Enamelled Copper Wire
⑤	Terminal	Cu with Ni and Sn plating

2. Shape and Dimensions (unit: mm)

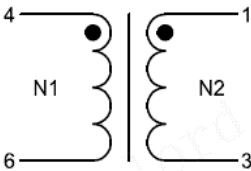
All dimensions without tolerances are typical values



Recommended PCB pattern

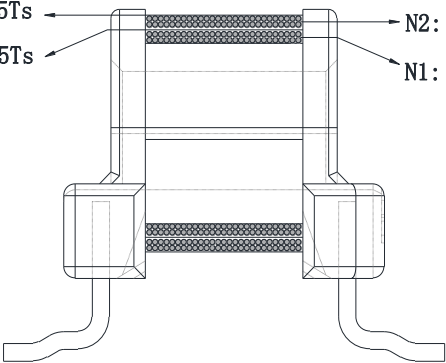


3. Schematic



4. Winding Specification

W\*H=2.7\*0.06mm FK-01 Tape 1.5Ts  
W\*H=2.7\*0.06mm FK-01 Tape 1.5Ts  
N2: 0.07mm FIW3 20Ts Pin(1-3)  
N1: 0.07mm FIW3 28Ts Pin(4-6)



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5. Electrical Characteristics @ 25 °C:  
Sunlord P/N:ALTW0805C-C05TF

Parameters	Inductance (Lp)	Lk (uH)	DCR		TURNS RATIO	Interwinding Capacitance	HI-POT
Unit	uH	μH	mΩ	mΩ	-	pF	Vdc
TEST TERMINAL	Pin (4-6)	Pin(4-6) short (1-3)	Pin(4-6)	Pin(1-3)	Pin(4-6):Pin(1-3)	Pin(4-6):Pin(1-3)	Pin(4-6) to Pin(1-3)
Sunlord Design	650 Min.	2.9 Max.	1600 Max.	1250 Max.	1.4:1±2.0%	6 Typ.	1500Vdc/1mA/60Sec
Test Condition	Measured at 10KHz,0.1V 25°C	Measured at 100KHz,0.1V 25°C	Measured at 25°C	Measured at 25°C	Measured at 100KHz,0.1V 25°C	Measured at 100KHz,0.1V 25°C	Measured at 25°C

Remark:  
AEC-Q200 G1 Grade(-40℃ ~ +125℃).