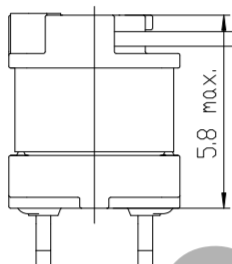


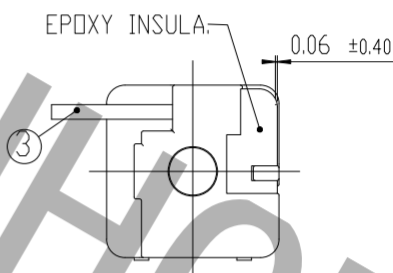
21PTR0700001

Trigger Coil For Photoflash

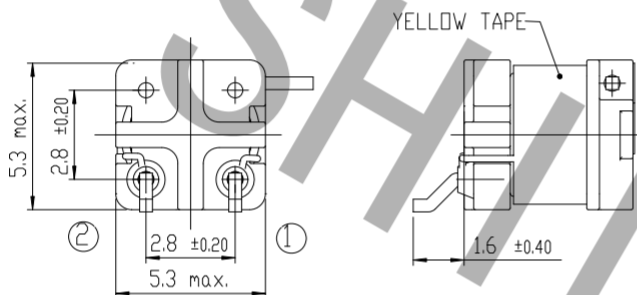
Top View



Bottom View



RoHS : Compliance

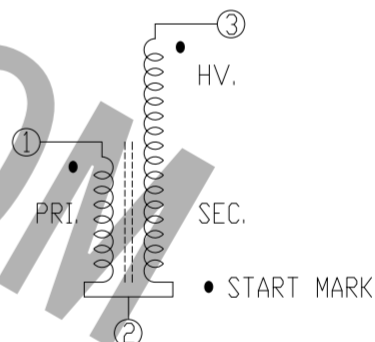


Electrical Specifications

Measurement Under Room Temperature (1KHz/1V)

- | | | |
|--|-----------|-----------|
| 1 Inductance | Primary | 1.2μHRef |
| | Secondary | 2.7mHmin. |
| 2 Direct current Sesistance | Primary | 420mΩmax. |
| | Secondary | 150Ωmax. |
| 3 Input Voltage | | 230V~300V |
| 4 Output Voltage(When 230V Is Applied) | | 4.4KV±15% |
| None Abnormality In The Shape of Waves And The Coil. | | |

Schematic



VOLTAGE

ELECTRIC CHARACTERISTIC

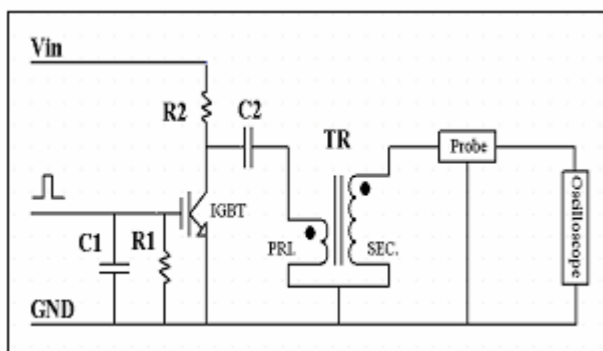
MAIN FUNCTION

MODEL

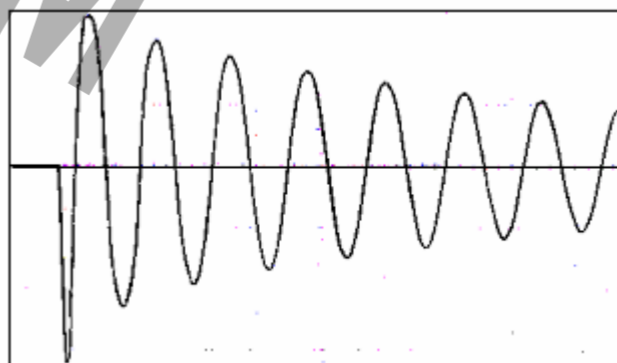
21PTR
0700001

OPERATING VOLTAGE RANGE	RATED VOLTAGE	DCR (COIL 1) Ω	INDUCTANCE (P) μH	INDUCTANCE (S) mH	START CURRENT mA	STROKE mm	TURNS RATIO	DRIVING FORCE gf	HOLDING FORCE gf	POWER OUTPUT W/KV
230V	230V	P:420mΩmax. S:150Ωmax.	1.2 REF	2.7 min	/	/	1:59	/	/	4.4±15%KV

Test circuit

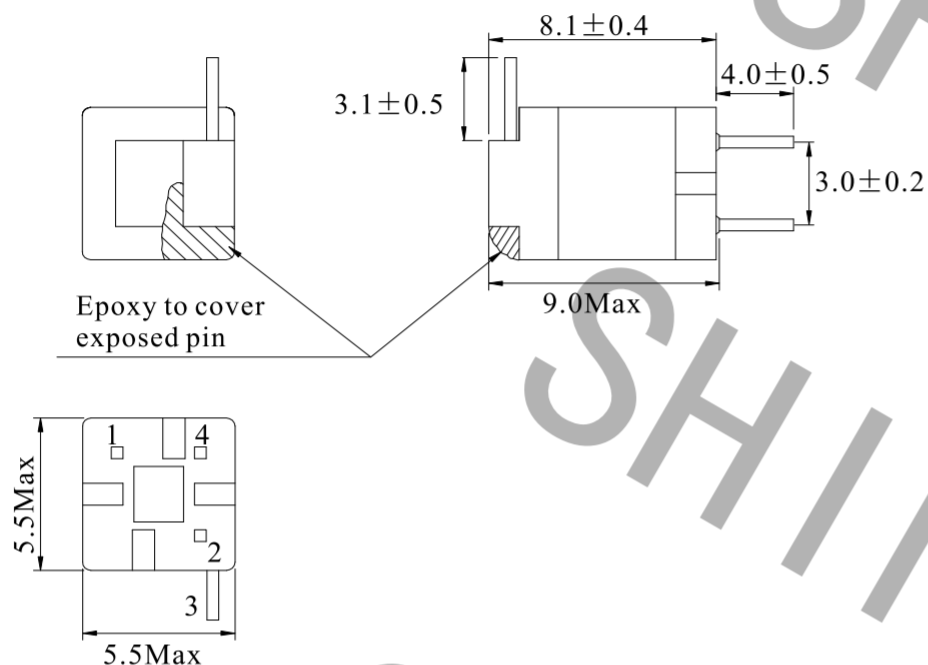


Typical Waveforms

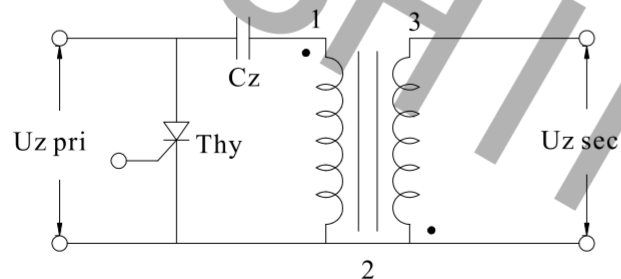


Rev.	Description	Date
A0	New release	2017.02.15

1. PHYSICAL CHARACTERISTICS (mm)



2. ELECTRICAL SCHEMATIC



3. ELECTRICAL SPECIFICATIONS

Pri resistance: $94 \pm 15 \text{ m}\Omega$

Pri voltage: 255V

Pri capacitance: $0.022 \mu\text{F}$

Pri inductance: $1.2 \pm 0.3 \mu\text{H} @ 1\text{KHz}, 0.5\text{V}$

Sec resistance: $67 \pm 10 \Omega$

Sec voltage: 4.0KV Min

Sec inductance: $1.8 \pm 0.3 \text{mH} @ 1\text{KHz}, 0.5\text{V}$

Operating temperature: -7°C to $+55^\circ\text{C}$

Test Instrument:

L: HP4284A

RDC: HM2540

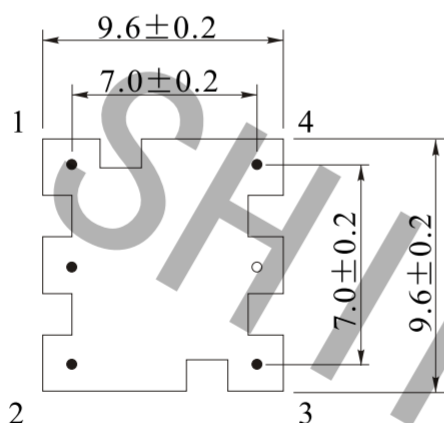
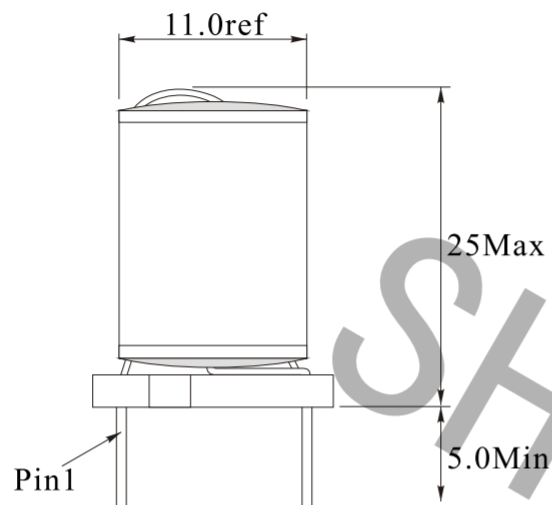
NAME:	Trigger coil		
CUSTOMER P/N:		DATE:	2017-02-15
SHINHOM P/N:	TCB0609	REV: A0	PAGE
DRAWN BY	CHECKED BY	APPROVE BY	



SHINHOM
SHAANXISHINHOM ENTERPRISE CO LTD

The Document property belong
to SHINHOM & is not allowed to be
duplicated without authorization

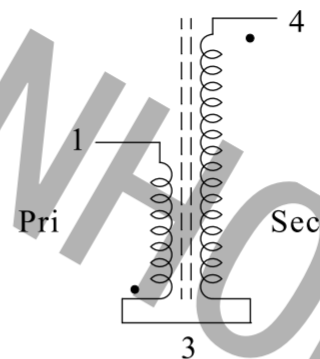
1. PHYSICAL CHARACTERISTICS (mm)



NOTES:

Temp 20°C 48%RH
RoHS Compliant

2. ELECTRONICAL SCHEMATIC



3. ELECTRONICAL SPECIFICATIONS

L: Sec: 9.0mH Min @1.0KHz, 0.1V

DCR: Sec: 100Ω ±20%

Output voltage: 10KV Min@input 300V

Insulation voltage: 15KV Min

Test Instrument:

L: HP4284A

RDC: HM2540



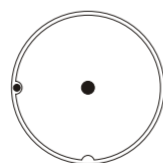
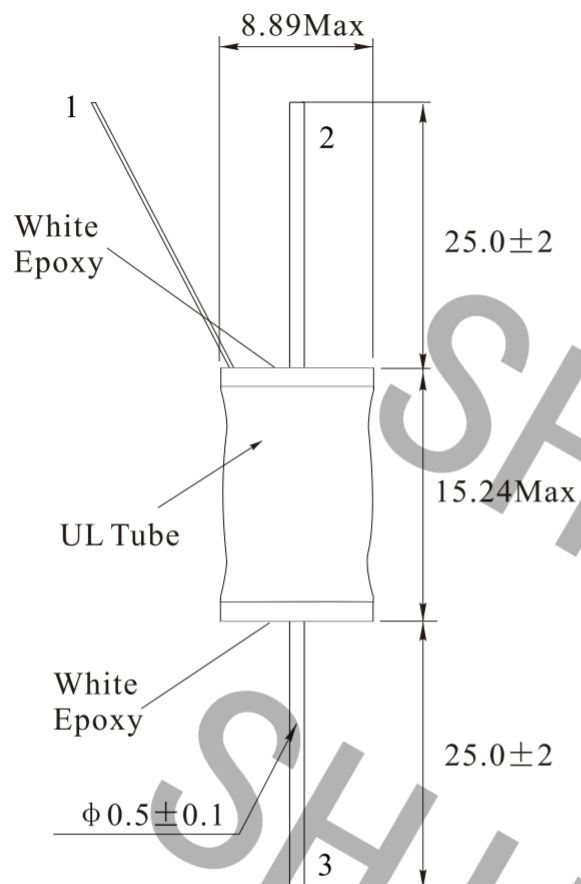
SHINHOM
SHAANXISHINHOM ENTERPRISE CO LTD

The Document property belong
to SHINHOM & is not allowed to be
duplicated without authorization

NAME:	Trigger coil		
CUSTOMER P/N:		DATE:	2012-09-19
SHINHOM P/N:	TCB1016	REV: A0	PAGE
DRAWN BY	CHECKED BY	APPROVE BY	

Rev.	Description	Date
A0	New release	2022.11.07

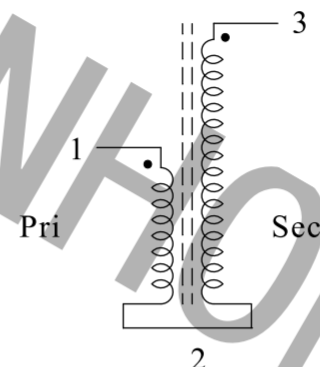
1. PHYSICAL CHARACTERISTICS(mm)



NOTES:

Temp 20°C 48%RH
RoHS Compliant

2. ELECTRONICAL SCHEMATIC



Pri: 2UEW $\phi 0.23$ mm 11.5Ts
Sec: USTC $\phi 0.06$ mm 500Ts

3. ELECTRONICAL SPECIFICATIONS

Input voltage: 300V
Output voltage: 4000V
Inductance: 2.34uH $\pm 20\%$ @1KHz,0.25V
2.94mH $\pm 20\%$ @1KHz,0.25V
DCR: Pri: 160m Ω Max
Sec: 115 Ω Max
Core: DRWW3X12

NAME:	Trigger transformer		
CUSTOMER P/N:	422-1304	DATE:	2022-11-07
SHINHOM P/N:	TCB3012-13	REV: A0	PAGE
DRAWN BY	CHECKED BY	APPROVE BY	

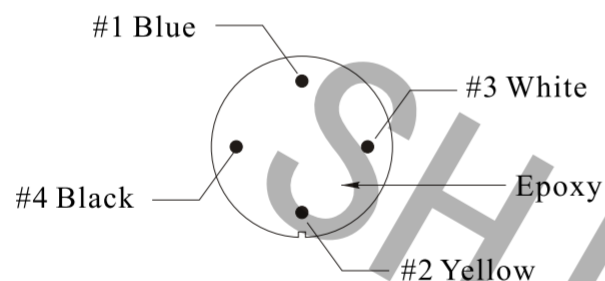
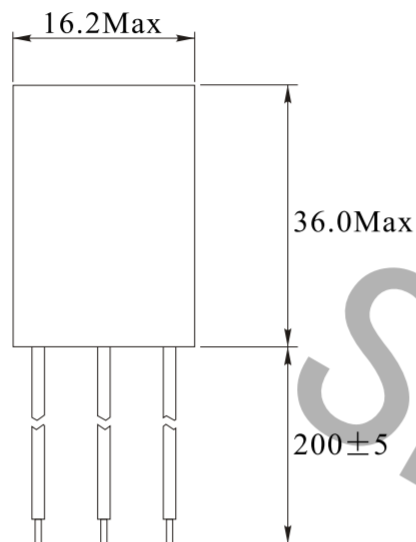


SHINHOM
SHAANXISHINHOM ENTERPRISE CO LTD

The Document property belong
to SHINHOM & is not allowed to be
duplicated without authorization

Rev.	Description	Date
A0	New release	2015.03.24

1. PHYSICAL CHARACTERISTICS(mm)

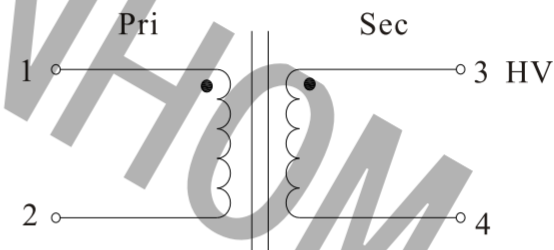


Leadwire #1(Blue) & #2(Yellow) 20AWG UL1015 600V L=200mm

Leadwire #3(White) 22AWG UL3239 30KV L=200mm

Leadwire #4(Black) 22AWG UL1015 600V L=200mm

2. ELECTRICAL SCHEMATIC



3. ELECTRICAL SPECIFICATIONS

Turns ratio: 1:70

L(Pri): 13uH ±20% @1.0KHz, 1V

L(Sec): 49.0mH ±20% @1.0KHz, 1V

DCR(Pri): 41.2mΩ ±20%

DCR(Sec): 110Ω ±20%

Output voltage: 16-22KV

@Input 385Vdc, Cap Ct=0.022uF

NAME:	Trigger coil		
CUSTOMER P/N:		DATE:	2015-03-24
SHINHOM P/N:	TC3616	REV: A0	PAGE
DRAWN BY		CHECKED BY	APPROVE BY



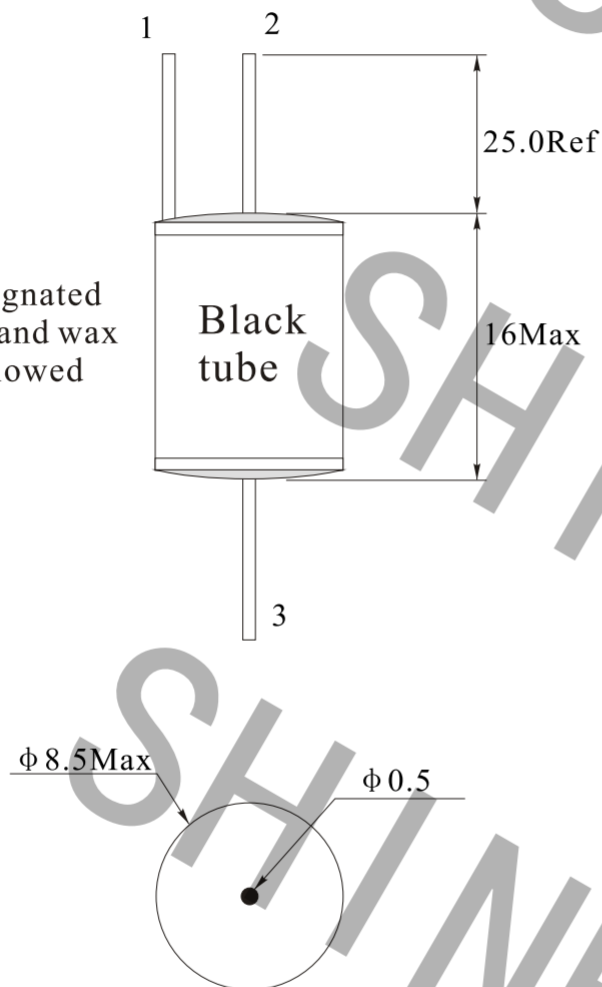
SHINHOM
SHAANXISHINHOM ENTERPRISE CO LTD

The Document property belong to SHINHOM & is not allowed to be duplicated without authorization

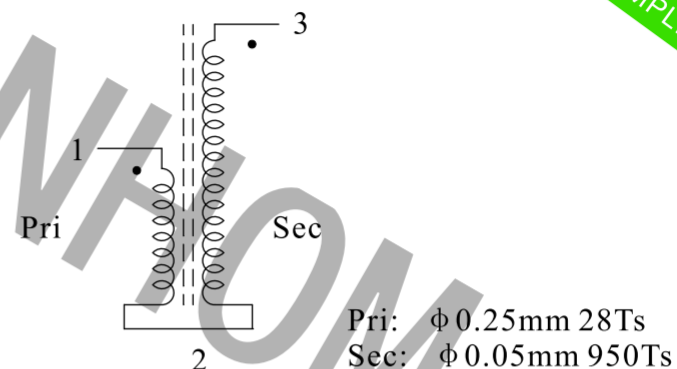
1. PHYSICAL CHARACTERISTICS (mm)

At both ends
coated with epoxy

Windings are impregnated
with vertical water and wax
immersion is not allowed



2. ELECTRONICAL SCHEMATIC



3. ELECTRONICAL SPECIFICATIONS

L: Pri: $12.3\mu\text{H} \pm 20\%$ @1.0KHz, 0.1V

Sec: $9.8\text{mH} \pm 20\%$ @1.0KHz, 0.1V

DCR: Pri: 0.26Ω Max

Sec: 130Ω Max

Peak Output Voltage: 7.5KV Typ. @input 150VDC

Peak Output Voltage: 15KV Typ. @input 330VDC

Test Instrument:

L: HP4284A

RDC: HM2540

NOTES:

Temp 20°C 48%RH
RoHS Compliant

NAME:	Trigger coil		
CUSTOMER P/N:		DATE:	2021-09-09
SHINHOM P/N:	TCB7513-1	REV: A0	PAGE
DRAWN BY	CHECKED BY		APPROVE BY

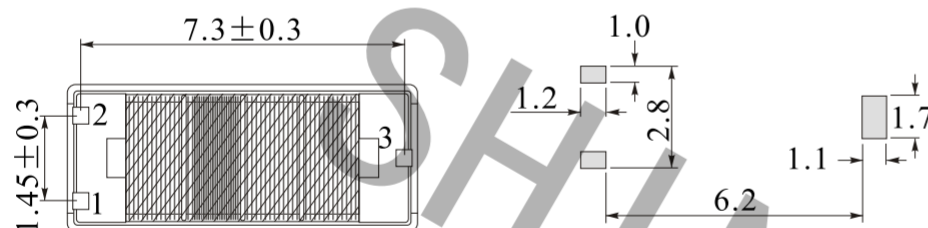
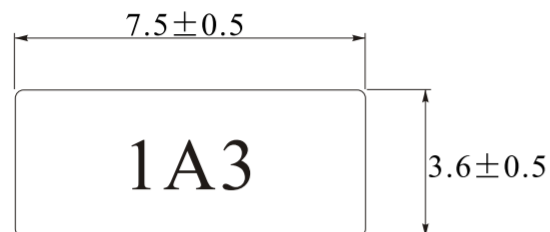


SHINHOM
SHAANXISHINHOM ENTERPRISE CO LTD

The Document property belong
to SHINHOM & is not allowed to be
duplicated without authorization

Rev.	Description	Date
A0	New release	2016.12.26

1. PHYSICAL CHARACTERISTICS (mm)

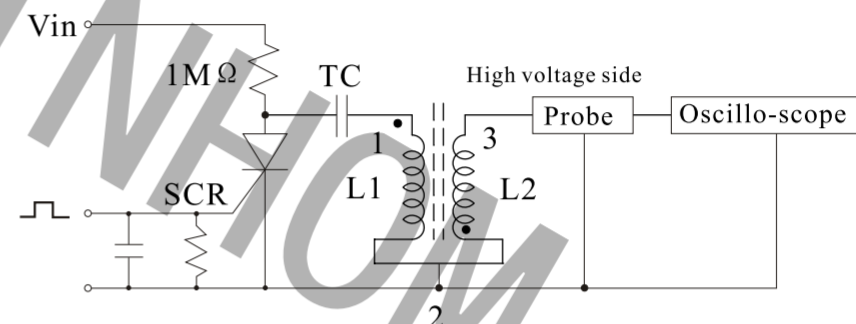


Pad layout

NOTES:

Temp 20°C 48%RH
RoHS Compliant

2. MEASURING CONDITION



3. ELECTRICAL SPECIFICATIONS

L(2-3): 3.2mH Ref@1.0KHz, 0.1V
L(1-2): 1.0uH Ref@1.0KHz, 0.1V
DCR(2-3): 400Ω Max
DCR(1-2): 1.1Ω Max
Output Voltage: 5.2KV ± 15% @ 300V input

Test Instrument:

L: HP4284A

RDC: HM2540

NAME:	Trigger coil		
CUSTOMER P/N:		DATE:	2016-12-26
SHINHOM P/N:	TCB7524	REV: A0	PAGE
DRAWN BY	CHECKED BY	APPROVE BY	

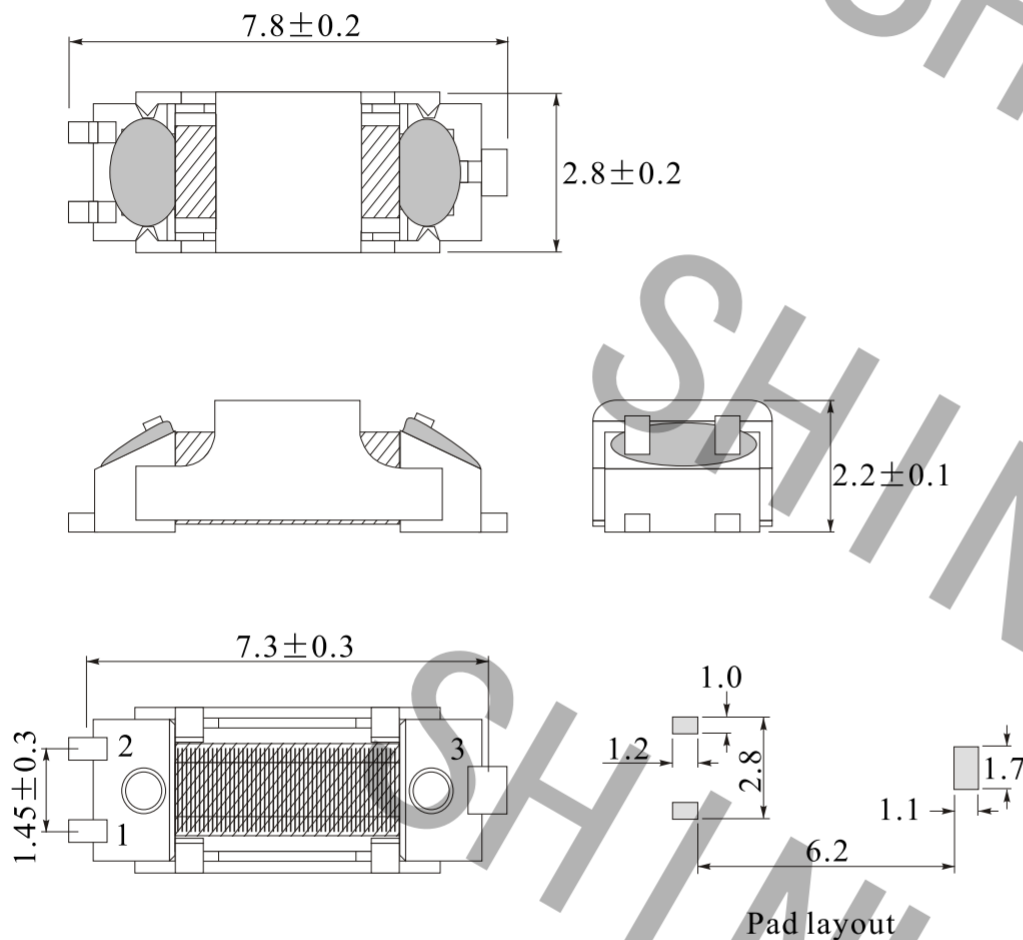


SHINHOM
SHAANXISHINHOM ENTERPRISE CO LTD

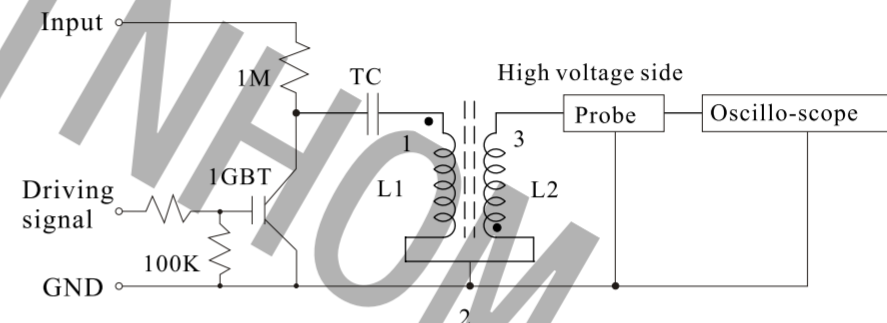
The Document property belong to SHINHOM & is not allowed to be duplicated without authorization

Rev.	Description	Date
A0	New release	2018.01.31

1. PHYSICAL CHARACTERISTICS (mm)



2. MEASURING CONDITION



3. ELECTRONICAL SPECIFICATIONS

L(2-3): 7.15mH ± 20% @ 100KHz, 1V

L(1-2): 886nH ± 20% @ 100KHz, 1V

DCR(2-3): 324 Ω ± 20%

DCR(1-2): 785mΩ ± 20%

Output Voltage: -5.2KV ± 15% @ 300V input

Test Instrument:

L: HP4284A

RDC: HM2540

NOTES:

Temp 20°C 48%RH
RoHS Compliant

NAME:	Trigger coil		
CUSTOMER P/N:		DATE:	2018-01-31
SHINHOM P/N:	TCB7822	REV: A0	PAGE
DRAWN BY	CHECKED BY	APPROVE BY	

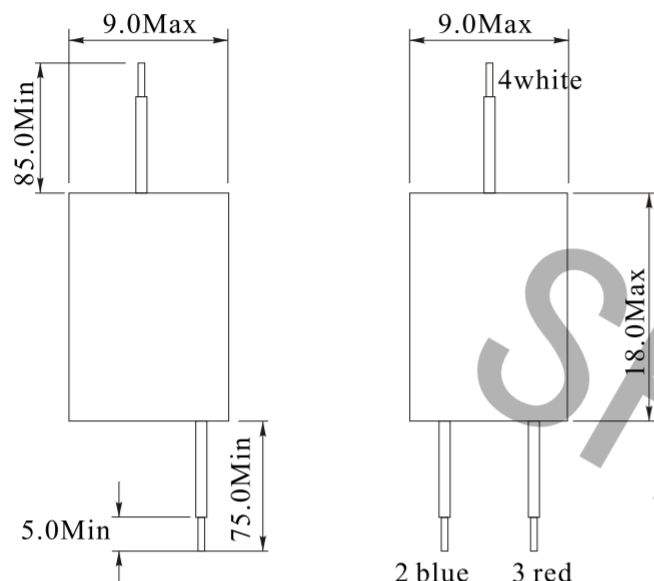


SHINHOM
SHAANXISHINHOM ENTERPRISE CO LTD

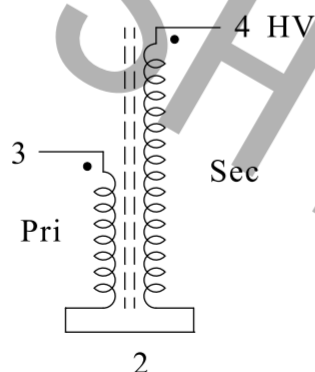
The Document property belong to SHINHOM & is not allowed to be duplicated without authorization

Rev.	Description	Date
A0	New release	2015.01.08
A1	Wire length	2015.06.11
A2	Input energy 20mJ	2015.07.06

1. PHYSICAL CHARACTERISTICS (mm)



2. ELECTRICAL SCHEMATIC



3. ELECTRICAL SPECIFICATIONS

Turns ratio: 50:1
 L(3-2): $19\mu\text{H} \pm 10\mu\text{H}@1.0\text{KHz}, 0.1\text{V}$
 L(4-2): $21\text{mH} \pm 10\mu\text{H}@1.0\text{KHz}, 0.1\text{V}$
 DCR(3-2): $0.29\Omega \pm 15\%$
 DCR(4-2): $185\Omega \pm 15\%$
 Input voltage: 400V Max
 Output Voltage: 20KV
 Input energy: 20mJ
 Hi-Pot: 20KV Min
 Operating temperature: -65°C to $+150^{\circ}\text{C}$

Note:

1. Solderability: leads shall meet MIL-STD-202, Method 208D for solderability.
2. Flammability: UL94V-0
3. ASTM oxygen index: $>28\%$

NAME:	Inductor coil		
CUSTOMER P/N:	FTR20-1	DATE:	2015-07-06
SHINHOM P/N:	TCB8016-LF1	REV: A2	PAGE
DRAWN BY	CHECKED BY	APPROVE BY	



SHINHOM
 SHAAOXISHINHOM ENTERPRISE CO LTD

The Document property belong
 to SHINHOM & is not allowed to be
 duplicated without authorization