

Winding Transformer-ATWP Series

Customized

Operating Temp. : -40°C~+125°C



PRODUCT IDENTIFICATION

<u>A</u> ①	<u>T</u> ②	<u>W</u> ③	<u>P</u> ④	<u>EP</u> ⑤	<u>06</u> ⑥	<u>07</u> ⑦	<u>08</u> ⑧	<u>B</u> ⑨	<u>3</u> ⑩	<u>06</u> ⑪	<u>T</u> ⑫
① Product Type A Automotive		② Type T Transformer		③ Structure W Wire Wound							
④ Feature Code P for Power		⑤ Core Type EE/EP/ES etc.		⑥ Core Length (Typ.) 06 6.0mm							
⑦ Bobbin Length (Typ.) 07 7.0mm		⑧ Product Height (Typ.) 08 7.0mm		⑨ Style B Horizontal & SMD D Vertical & SMD							
⑩ Number of Coil 1~9		⑪ Design Code 00~99, A0~Y9		⑫ Packing T Taping P Pallet B Bulk							

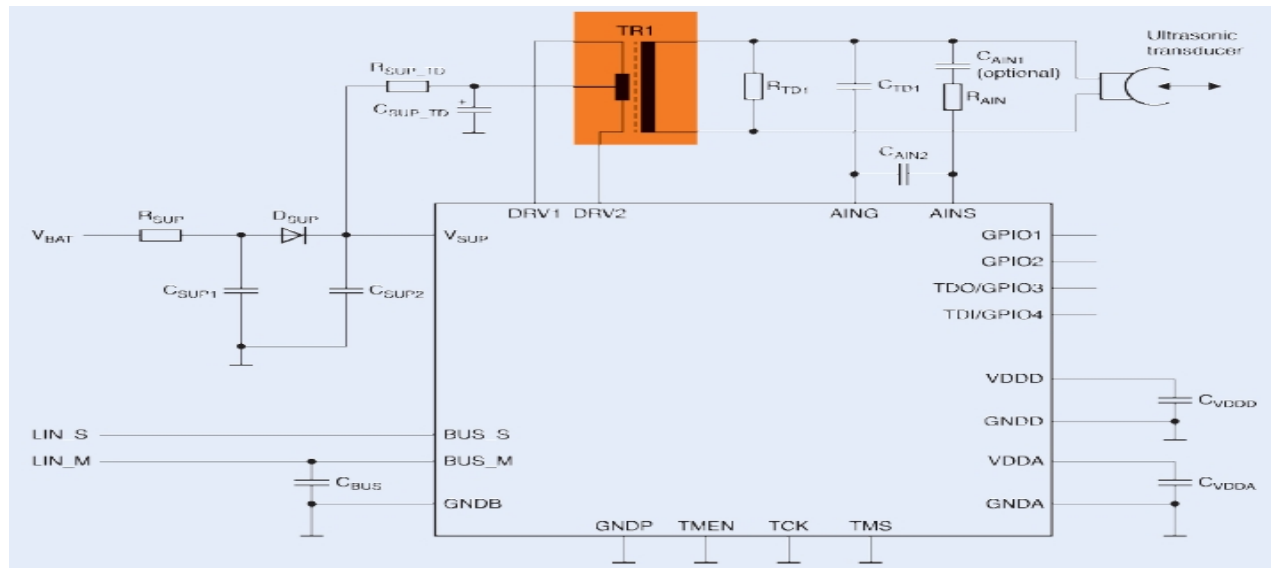
TRANSFORMER FOR PARKING SENSOR

FEATURES

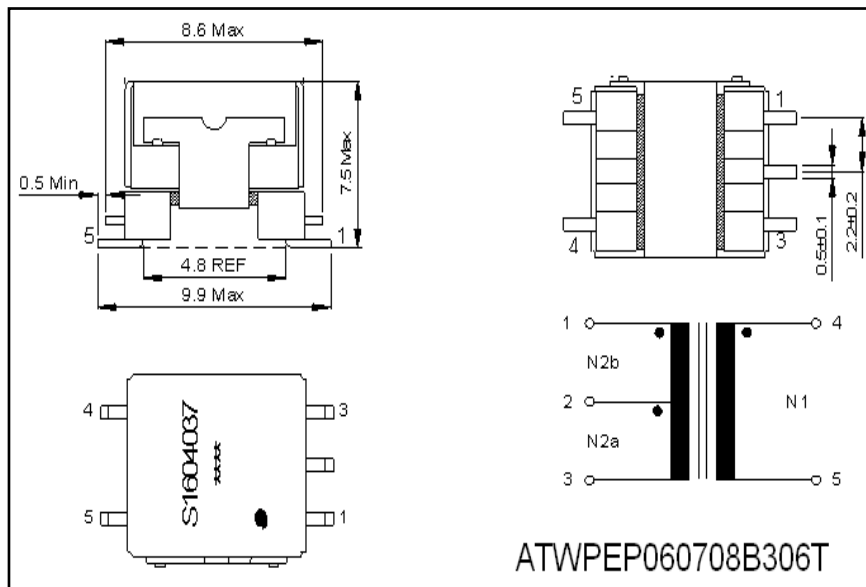
- Resistance to reflow soldering heat in accordance with JEDEC J-STD-020D with 245°C for 10sec.
- MSL level 1
- AEC-Q200 verified
- High reliability and sensitivity

APPLICATIONS

- Ultrasonic parking system



SHAPE AND DIMENSIONS



ATWPEP060708B306T

SPECIFICATION

ATWPEP060708B306T	Test Terminal	Test Specification
Inductance	Pin(4-5)	4.2±5% mH
DCR	Pin(4-5)	40Ω Max.
	Pin(1-2)	0.7Ω Max.
	Pin(2-3)	0.7Ω Max.
HI-POT	Pri. to Sec.	200 V _{DC} /(50/60)Hz/1mA /2sec.
	All winding to core	200 V _{DC} /(50/60)Hz/1mA /2sec.
Insulation Resistance	Pri. to Sec.	100 V _{DC} /10MΩ Min./2sec.
	All winding to core	100 V _{DC} /10MΩ Min./2sec.
Coupling Capacitance	Pin(4-2)	50pF Max.
Turns Ratio	Pin(4-5): Pin(1-2): Pin(2-3)	15: 1: 1

CUSTOMIZED PRODUCT PRESENTATION

We can customize transformers for parking sensor according to your requirements. Please refer to the following feature ranges:

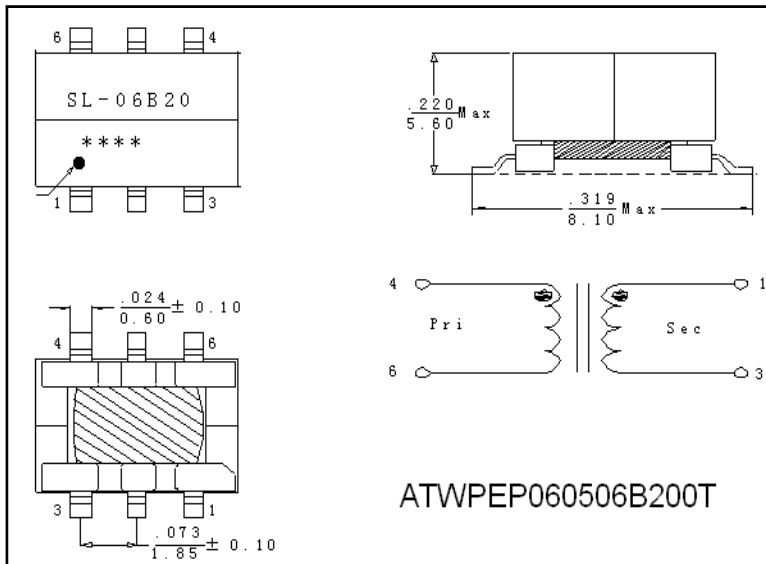
Core Type	Sensor Distance(m)
EP	≤2.5; ≤4; ≤5

FEATURES

- ## APPLICATION

- [illegible]

SHAPE AND DIMENSIONS

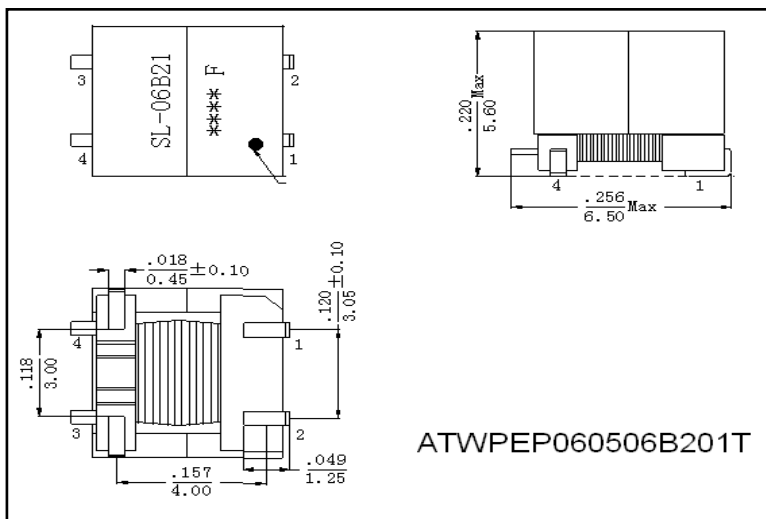


ATWPEP060506B200T

Application:

Linear IC

Gate Drive Transformer for Linear IC

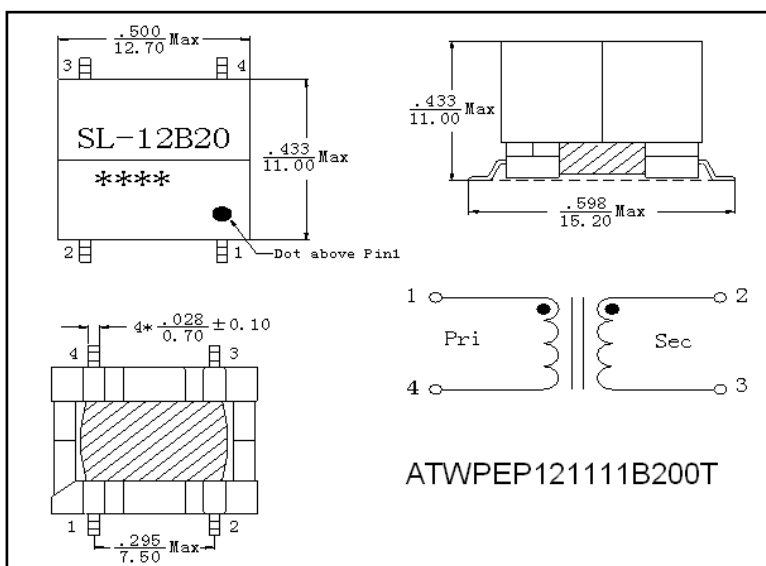


ATWPEP060506B201T

Application:

Linear IC

Current Sensor Transformer for Linear IC



ATWPEP121111B200T

Application:

Linear IC

Flyback Transformer for Linear IC

SPECIFICATION

ATWPEP060506B200T	Test Terminal	Test Specification
Inductance	Pin(4-6)	690 μ H Min.
Leakage Inductance	Pin(4-6), shorted all other pins	2.5 μ H Max.
DCR	Pin(4-6)	1.65 Ω Max.
	Pin(1-3)	1.0 Ω Max.
HI-POT	Winding to winding	2500 V _{AC} /(50/60)Hz/1mA 60sec.
	All winding to core	1250 V _{AC} /(50/60)Hz/1mA/60sec.
Coupling Capacitance	Pin(1-4)	30pF Max.
Self-Resonant Frequency	Pin(4-6)	0.75MHz Min.
Turns Ratio	Pin(4-6): Pin(1-3)	1.5: 1

ATWPEP060506B201T	Test Terminal	Test Specification
Inductance	Pin(4-3)	2.5mH
DCR	Pin(4-3)	4.8 Ω Max.
	Pin(1-2)	24m Ω Max.
HI-POT	Winding to winding	2500 V _{AC} /(50/60)Hz/1mA/60sec.
	All winding to core	1250 V _{AC} /(50/60)Hz/1mA/60sec.
Coupling Capacitance	Pin(1-4)	2pF Max.
Sensed Current	Pin(1-2)	10A Max.
Turns Ratio	Pin(4-3): Pin(1-2)	100: 1

ATWEP121111B200T	Test Terminal	Test Specification
Inductance	Pin(1-4)	10~12 μ H
Leakage Inductance	Pin(1-4), shorted all other pins	100nH Max.
DCR	Pin(1-4)	20m Ω Max.
	Pin(2-3)	200m Ω Max.
HI-POT	Winding to winding	2500 V _{AC} /(50/60)Hz/1mA /60sec.
	All winding to core	1250 V _{AC} /(50/60)Hz/1mA /60sec.
Coupling Capacitance	Pin(1-2)	38pF Max.
Turns Ratio	Pin(1-4): Pin(2-3)	1: 2

TRANSFORMER FOR CURRENT SENSE-ATWPEP060606

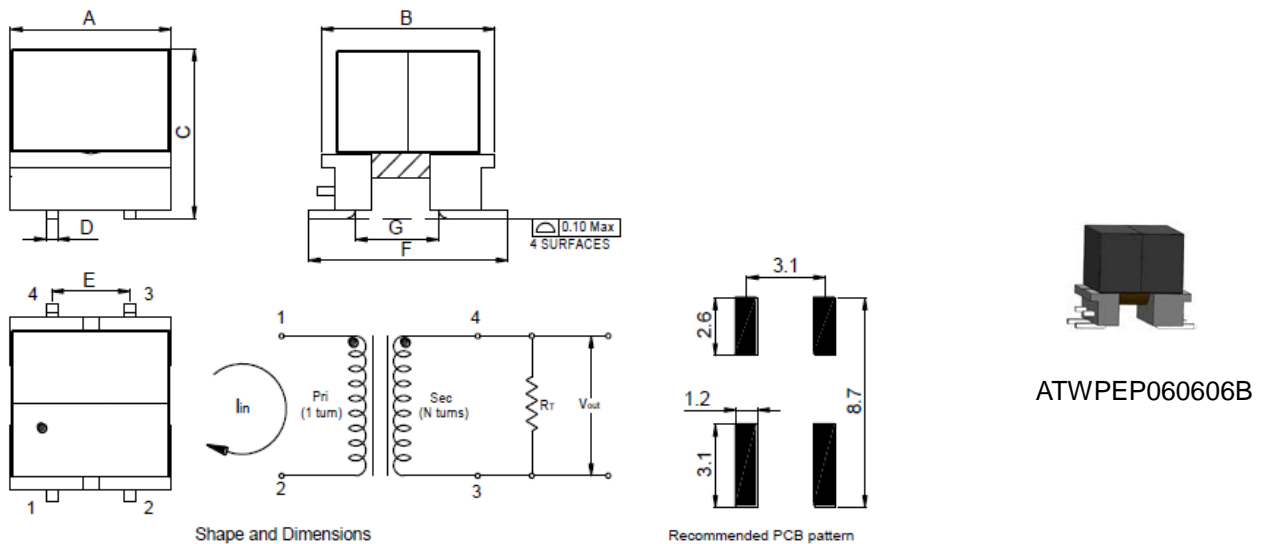
FEATURES

- Low leakage inductance
- Low inter-winding capacitance
- High SRF
- High isolation between primary and secondary side
- AEC-Q200 verified

APPLICATIONS

- DC/DC converter for flyback control, overload detection, off detection (can be used as power and safety systems)

SHAPE AND DIMENSIONS



Unit: mm

A	B	C	D	E	F	G
7.0Max.	7.5Max.	8.5Max.	0.5±0.1	3.1±0.2	9.0Max.	3.3Ref.

TYPICAL SPECIFICATION

Part Number	Voltage Time	Inductance	DCR		Turns Ratio	HI-POT	
Units	V·μs	mH Min.	Ω Max.	mΩ Max.	/	/	
Test Terminal	/	Pin(4-2)	Pin(4-2)	Pin(11-12)	Pin(11-12): Pin(4-2)	Winding to winding	All windings to core
ATWPEP060606B201T	55	0.6	1.6	22	1: 50±3.0%	2500V _{AC} / (50/60)Hz / 1mA / 60sec	1500V _{AC} / (50/60)Hz / 1mA / 60sec
ATWPEP060606B202T	110	2.5	3.2	22	1: 100±3.0%		
ATWPEP060606B203T	170	5.6	8.0	22	1: 150±3.0%		

TRANSFORMER FOR CURRENT SENSE-ATWPEP070710

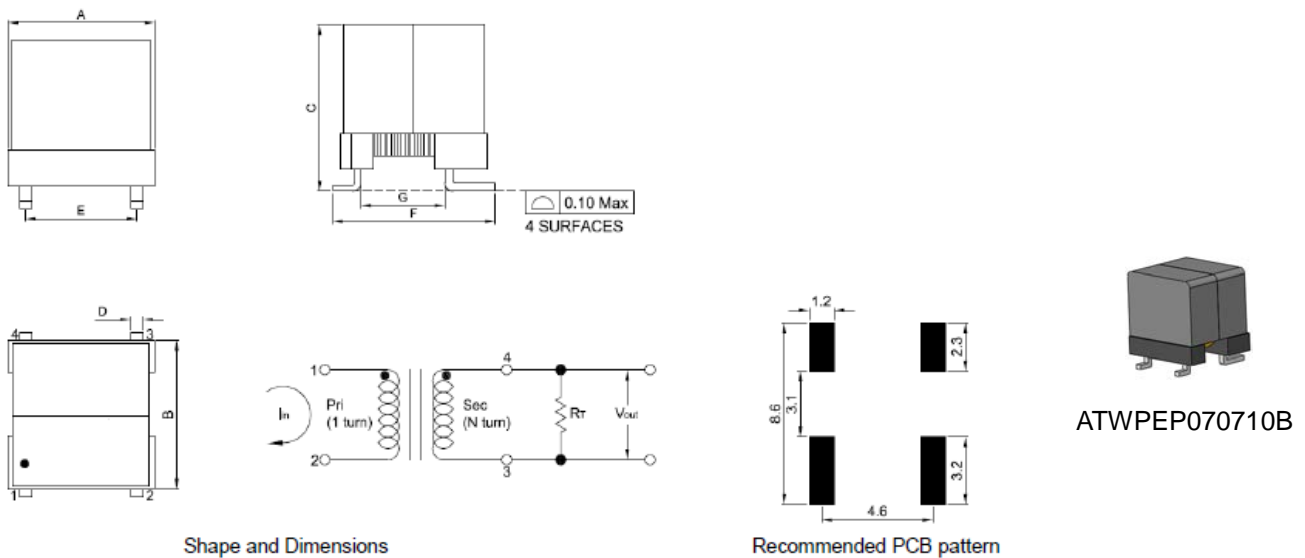
FEATURES

- Low leakage inductance
- Low inter-winding capacitance
- High SRF
- High isolation between primary and secondary side
- AEC-Q200 verified

APPLICATIONS

- DC/DC converter for flyback control, overload detection, off detection (can be used as power and safety systems)

SHAPE AND DIMENSIONS



Unit: mm

A	B	C	D	E	F	G
8.00Max.	8.00Max.	9.80Max.	0.50±0.1	4.60±0.2	8.30Max.	4.00Ref.

TYPICAL SPECIFICATION

ATWPEP070710B	Test Terminal	Test Specification
Coupling Capacitance	Pin(4-3)	4.0pF Max.
Inductance	Pin(4-2)	6.0mH Min.
HI-POT	Pri. to Sec.	2500V _{AC} /1mA/(50/60)Hz/60sec
	All winding to core	500V _{AC} /1mA/(50/60)Hz/60sec
Turns Ratio	Pin(1-2): Pin(4-3)	Customizable

CUSTOMIZED PRODUCT PRESENTATION

We can customize transformers for BMS according to your requirements.

Remark:

※The picture is for reference and the real product may be different.

※ Recommended storage conditions :10°C~30°C, RH 70% (Max.)

※We can customize products according to your requirements. Please contact your local sales.