

HIGH-POWER MAGNETICS

AWHP SERIES / REFERENCE DESIGN PORTFOLIO

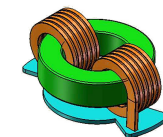
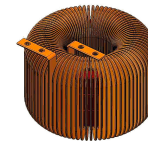
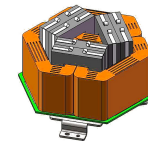
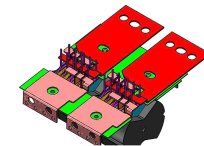
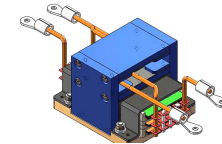
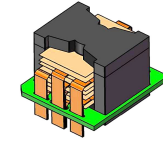
56 REFERENCE DESIGNS

AWHP SERIES / QUICK SUMMARY

SUB-SERIES / QTY	PRIMARY RATING RANGE	CURRENT RANGE	MECHANICAL ENVELOPE
AWPT / 33 TRANSFORMERS	100 W - 125 kW	6.5 - 700 A	~23 - 436 mm span
AWHPI / 22 POWER INDUCTORS	0.5 uH - 1 mH	7 - 250 A	~28 - 170 mm span
AWCDMC / 1 COMMON-MODE CHOKE	100 uH	100 A	116 x 90 x 52 mm

Envelope values are representative maximum spans from the supplied drawings; verify each design page.

CUSTOM ENGINEERED FOR AUTOMOTIVE, INDUSTRIAL, DATA-CENTER
RENEWABLE-ENERGY AND HIGH-DENSITY POWER SYSTEMS



ENGINEERED AROUND THE POWER STAGE

A reference portfolio of application-specific magnetic structures for demanding power-conversion platforms.

100 W - 125 kW

POWER COVERAGE

Compact auxiliary converters through high-current industrial power stages.

20 - 500 kHz

OPERATING RANGE

Reference designs spanning high-frequency planar and wound constructions.

56 designs

CUSTOM FORM FACTORS

Transformer, inductor and common-mode choke concepts across three sub-series.

PORTFOLIO COVERAGE

Representative architectures, conversion types and end-use platforms shown in the supplied design set.

COMPONENT FAMILIES

Transformers Power inductors Common-mode chokes

CONVERSION TOPOLOGIES

DC-DC AC-DC DC-AC OBC + DC-DC

CONSTRUCTION FORMS

Planar Wound Toroidal Busbar-integrated

TYPICAL MARKETS

Automotive Industrial Data center Renewable energy

PROJECT INPUTS

Data required to release a production design

- 1 Topology and power level
- 2 Input / output voltage and current
- 3 Switching frequency and waveform
- 4 Isolation and insulation requirements
- 5 Thermal boundary and cooling method
- 6 Mechanical envelope and termination

Values shown are reproduced from the supplied reference portfolio and require project-specific electrical, thermal and mechanical validation.

TRANSFORMERS

Custom high-frequency structures from compact converters to industrial power platforms.

AWHP PORTFOLIO / SUB-SERIES

AWPT-DD DC-DC

AWPT-DA DC-AC

AWPT-AD AC-DC

AWPT-OB OBC + DC-DC

33 REFERENCE DESIGNS

TRANSFORMER

AWPT-100W-DA01

100 W

MAIN SERIES AWHP / SUB-SERIES AWPT-DA

SERIES / SUB-SERIES
AWHP / AWPT-DA

CONVERSION
DC-AC

INPUT
12 V / 9 A

OUTPUT
72 V

OPERATING RANGE
200-500 kHz

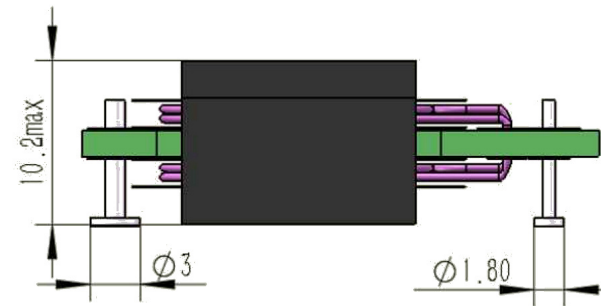
TYPICAL APPLICATIONS

- Telecom & datacom power
- Distributed DC power
- Server auxiliary rails

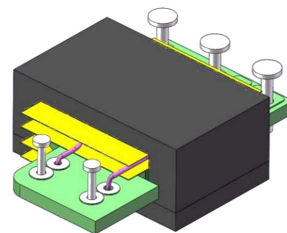
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ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

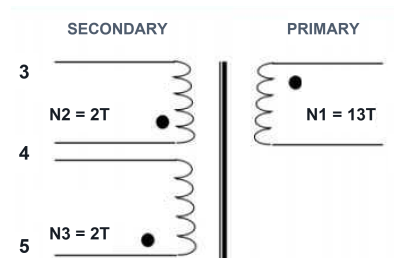
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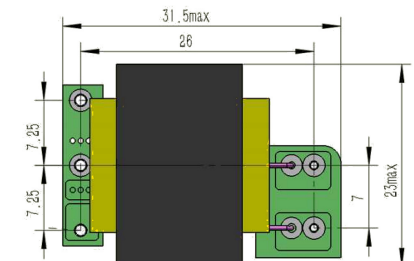
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-150W-DA02

150 W

MAIN SERIES AWHP / SUB-SERIES AWPT-DA

SERIES / SUB-SERIES

AWHP / AWPT-DA

CONVERSION

DC-AC

INPUT

12 V / 13 A

OUTPUT

24 V

OPERATING RANGE

200-500 kHz

TYPICAL APPLICATIONS

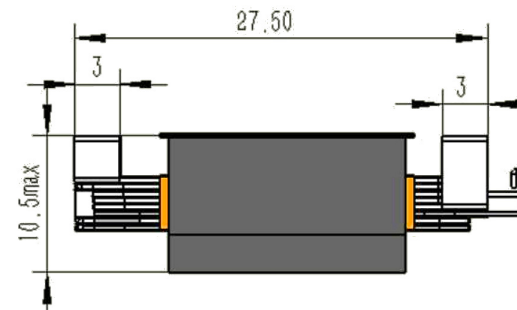
- Telecom & datacom power
- Distributed DC power
- Server auxiliary rails

Reference design; final values require project validation.

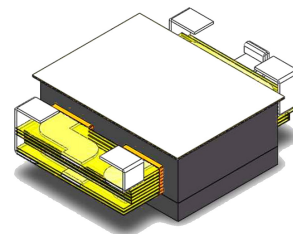
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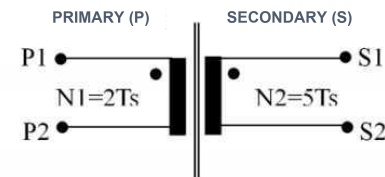
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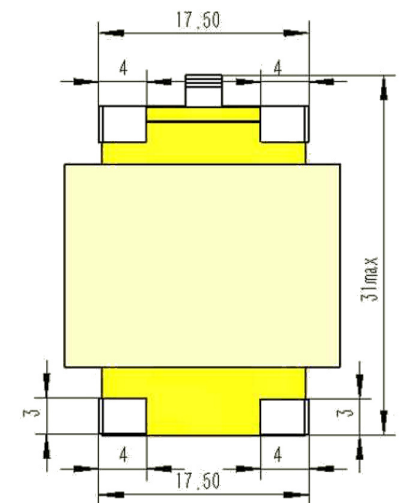
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-300W-DD03

300 W

MAIN SERIES AWHP / SUB-SERIES AWPT-DD

SERIES / SUB-SERIES
AWHP / AWPT-DD

CONVERSION
DC-DC

INPUT
48 V / 6.5 A

OUTPUT
5 V

OPERATING RANGE
200-500 kHz

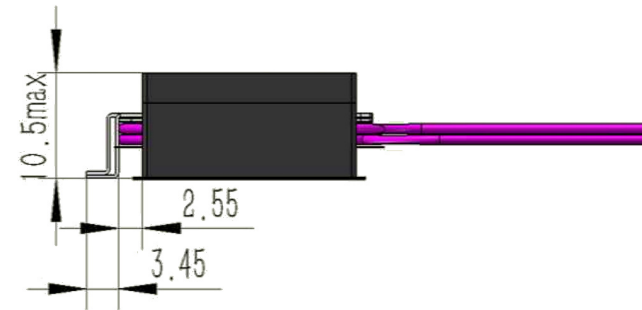
TYPICAL APPLICATIONS

- Telecom & datacom power
- Distributed DC power
- Server auxiliary rails

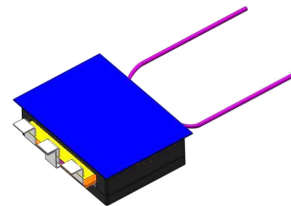
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MECHANICAL REFERENCE

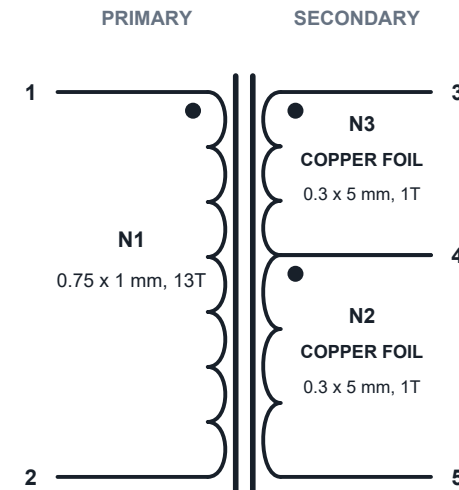
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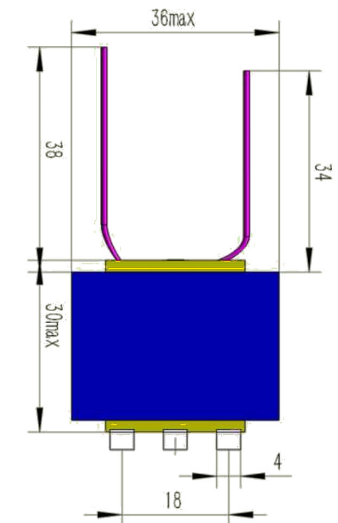
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-500W-DD04

500 W

MAIN SERIES AWHP / SUB-SERIES AWPT-DD

SERIES / SUB-SERIES
AWHP / AWPT-DD

CONVERSION
DC-DC

INPUT
12 V / 45 A

OUTPUT
40 V

OPERATING RANGE
200-500 kHz

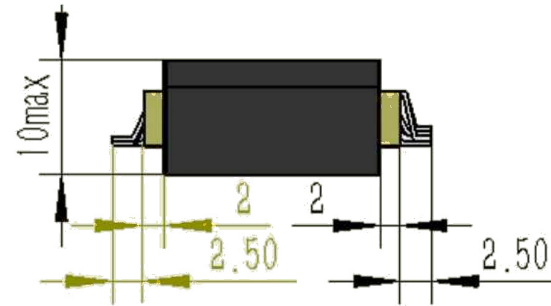
TYPICAL APPLICATIONS

- Telecom & datacom power
- Distributed DC power
- Server auxiliary rails

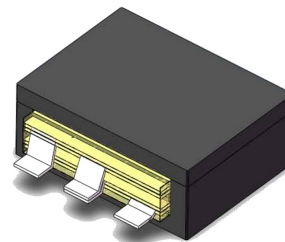
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MECHANICAL REFERENCE

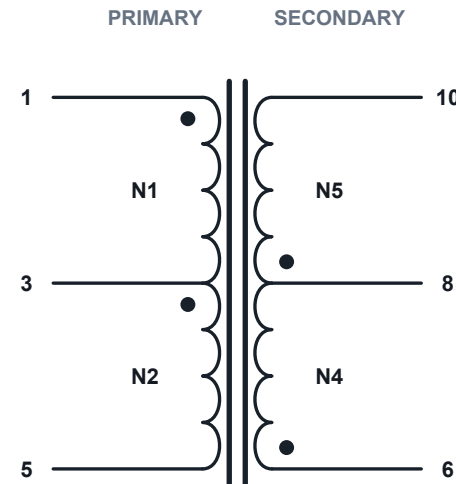
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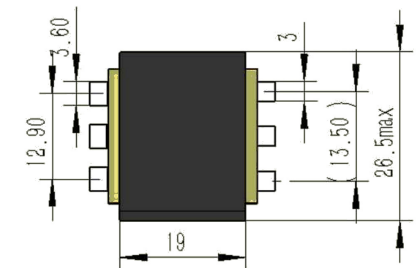
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-500W-DD05

500 W

MAIN SERIES AWHP / SUB-SERIES AWPT-DD

SERIES / SUB-SERIES
AWHP / AWPT-DD

CONVERSION
DC-DC

INPUT
28 V / 18 A

OUTPUT
48 V

OPERATING RANGE
100-500 kHz

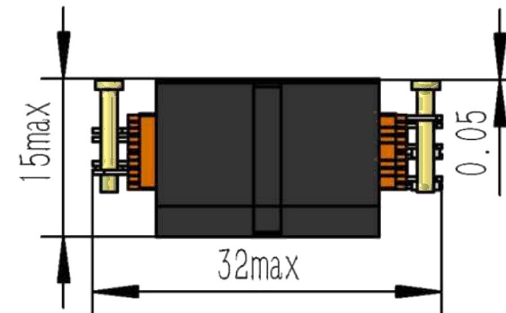
TYPICAL APPLICATIONS

- Telecom & datacom power
- Distributed DC power
- Server auxiliary rails

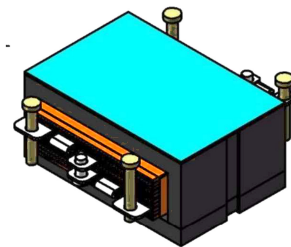
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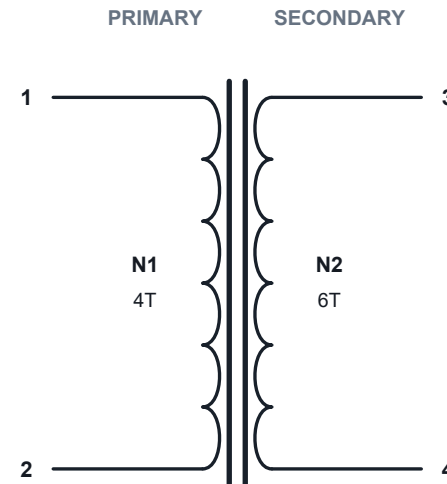
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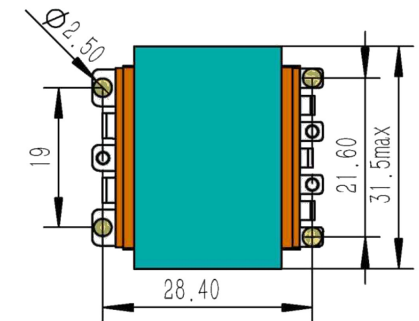
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-1K5-DD06

1.5 kW

MAIN SERIES AWHP / SUB-SERIES AWPT-DD

SERIES / SUB-SERIES

AWHP / AWPT-DD

CONVERSION

DC-DC

INPUT

28 V / 55 A

OUTPUT

48 V

OPERATING RANGE

200-500 kHz

TYPICAL APPLICATIONS

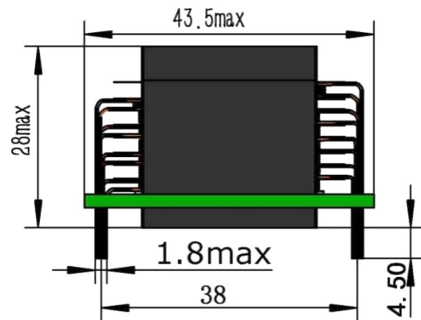
- Telecom & datacom power
- Distributed DC power
- Server auxiliary rails

Reference design; final values require project validation.

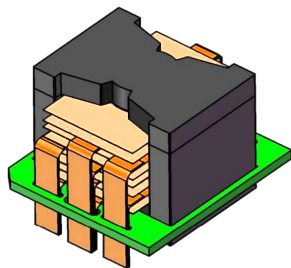
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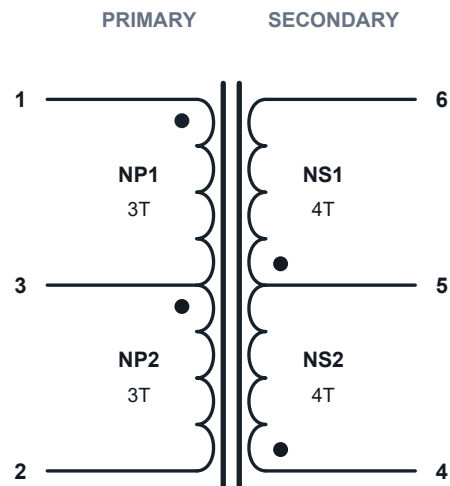
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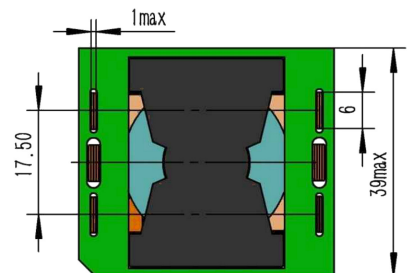
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-700W-DD07

700 W

MAIN SERIES AWHP / SUB-SERIES AWPT-DD

SERIES / SUB-SERIES
AWHP / AWPT-DD

CONVERSION
DC-DC

INPUT
28 V / 25 A

OUTPUT
48 V

OPERATING RANGE
200-500 kHz

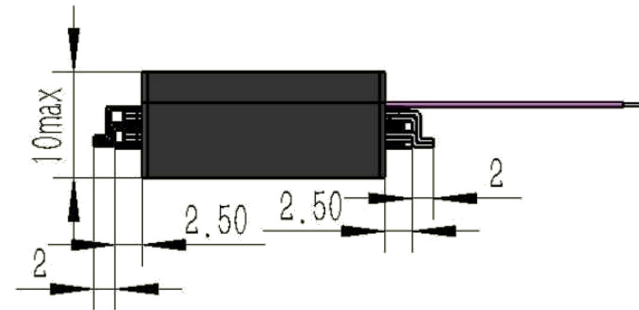
TYPICAL APPLICATIONS

- Telecom & datacom power
- Distributed DC power
- Server auxiliary rails

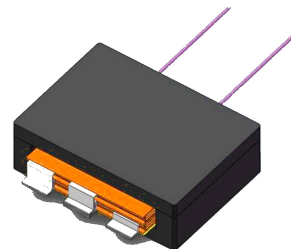
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MECHANICAL REFERENCE

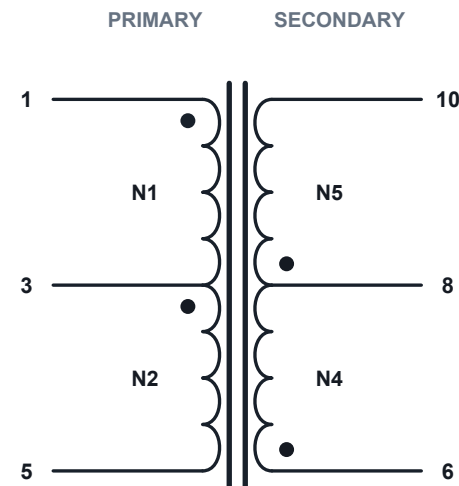
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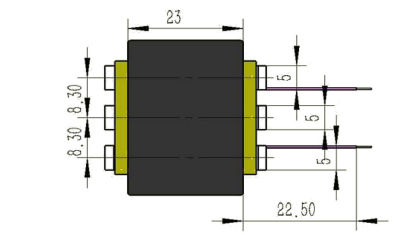
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-800W-DD08

800 W

MAIN SERIES AWHP / SUB-SERIES AWPT-DD

SERIES / SUB-SERIES
AWHP / AWPT-DD

CONVERSION
DC-DC

INPUT
28 V / 28.5 A

OUTPUT
28 V

OPERATING RANGE
200-500 kHz

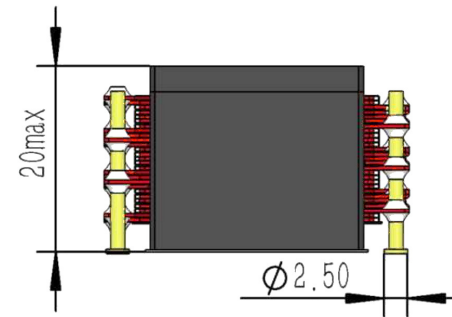
TYPICAL APPLICATIONS

- Telecom & datacom power
- Distributed DC power
- Server auxiliary rails

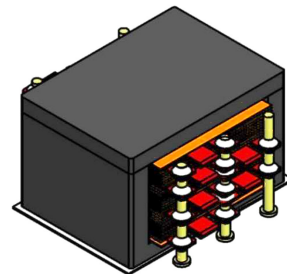
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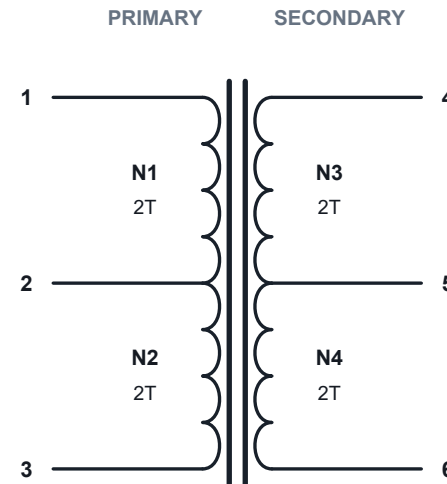
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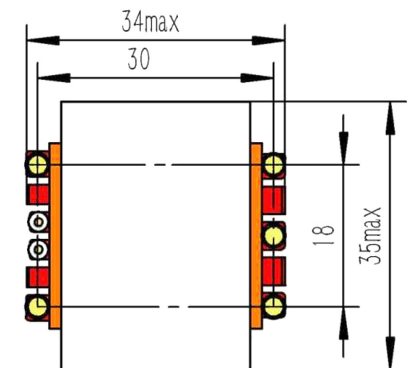
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-800W-DD09

800 W

MAIN SERIES AWHP / SUB-SERIES AWPT-DD

SERIES / SUB-SERIES
AWHP / AWPT-DD

CONVERSION
DC-DC

INPUT
48 V

OUTPUT
12 V / 70 A

OPERATING RANGE
200-500 kHz

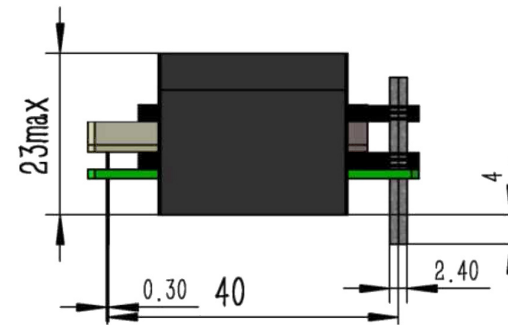
TYPICAL APPLICATIONS

- Telecom & datacom power
- Distributed DC power
- Server auxiliary rails

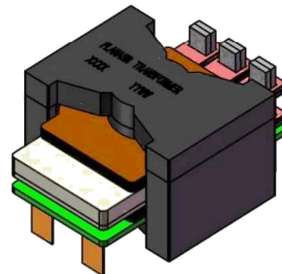
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MECHANICAL REFERENCE

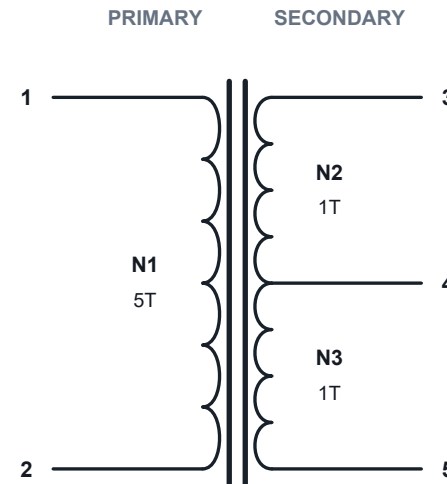
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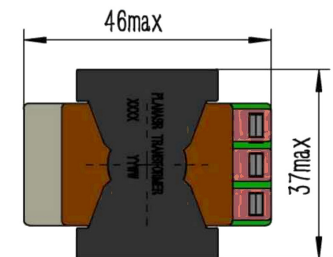
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-1K0-DD10
1 kW

MAIN SERIES AWHP / SUB-SERIES AWPT-DD

SERIES / SUB-SERIES
AWHP / AWPT-DD

CONVERSION

DC-DC

INPUT
48 V

OUTPUT
28 V / 40 A

OPERATING RANGE
200-500 kHz

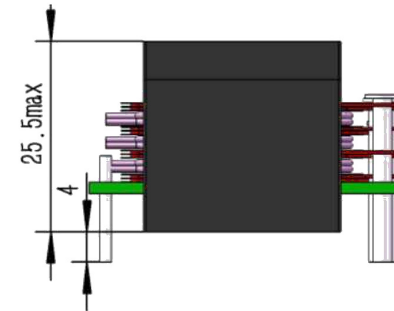
TYPICAL APPLICATIONS

- Telecom & datacom power
- Distributed DC power
- Server auxiliary rails

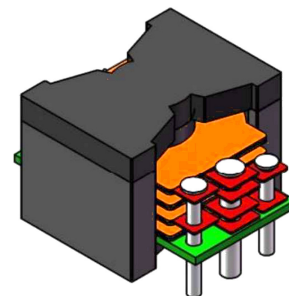
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MECHANICAL REFERENCE

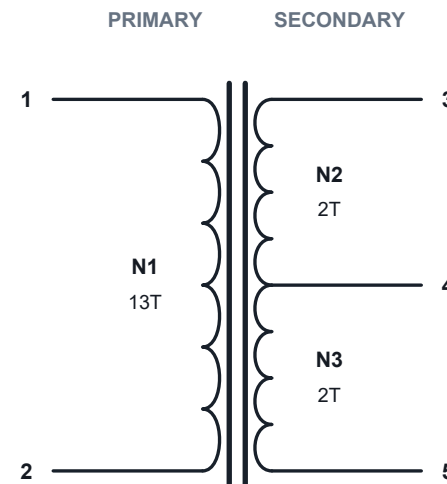
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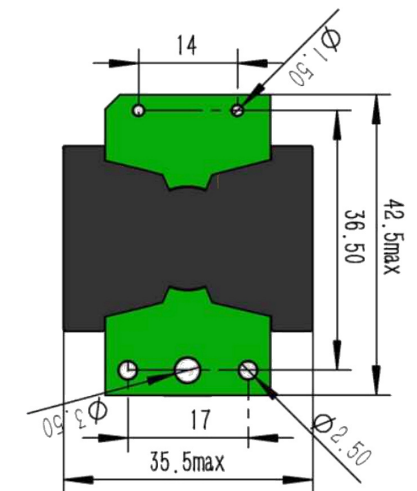
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION



TRANSFORMER

AWPT-1K2-AD11

1.2 kW

MAIN SERIES AWHP / SUB-SERIES AWPT-AD

SERIES / SUB-SERIES

AWHP / AWPT-AD

CONVERSION

AC-DC

INPUT

300 V

OUTPUT

24 V / 50 A

OPERATING RANGE

100-200 kHz

TYPICAL APPLICATIONS

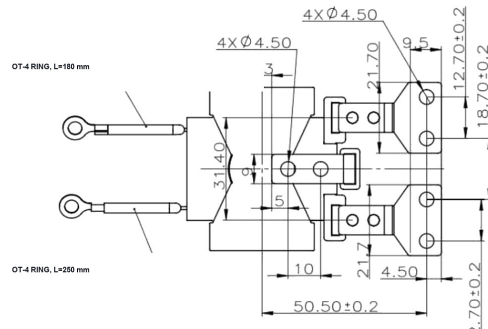
- Industrial power conversion
- Battery charging systems
- Welding / laser / test equipment

Reference design; final values require project validation.

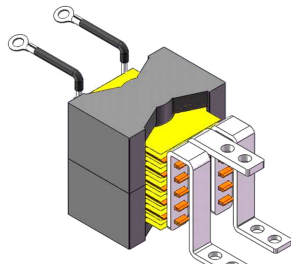
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MECHANICAL REFERENCE

DIMENSIONS: mm



PRODUCT CONCEPT

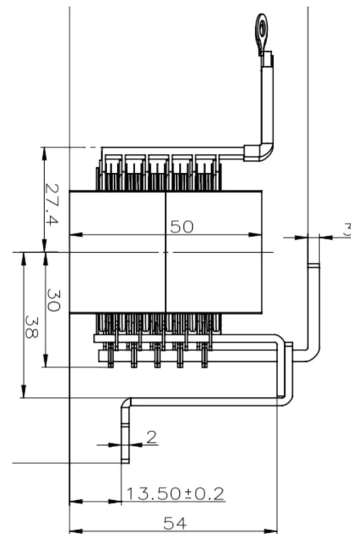


SCHEMATIC STATUS

SCHEMATIC NOT PROVIDED

WINDING DATA AVAILABLE
FOR QUALIFIED PROJECTS

PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-800W-AD12

800 W

MAIN SERIES AWHP / SUB-SERIES AWPT-AD

SERIES / SUB-SERIES
AWHP / AWPT-AD

CONVERSION
AC-DC

INPUT
300 V

OUTPUT
12 V / 70 A

OPERATING RANGE
100-200 kHz

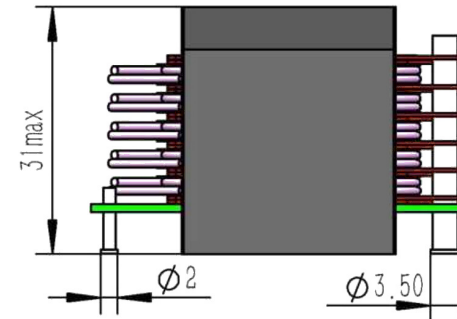
TYPICAL APPLICATIONS

- Industrial power conversion
- Battery charging systems
- Welding / laser / test equipment

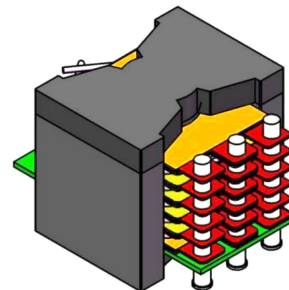
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ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

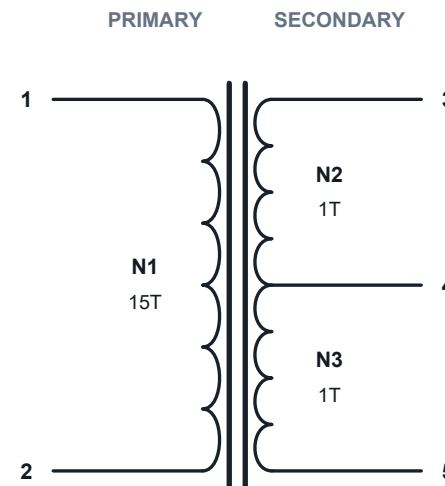
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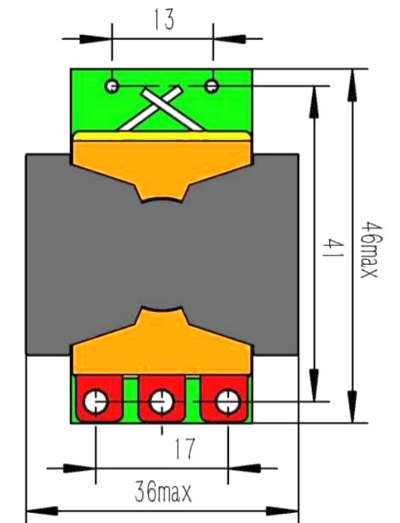
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-1K5-DD13

1.5 kW

MAIN SERIES AWHP / SUB-SERIES AWPT-DD

SERIES / SUB-SERIES

AWHP / AWPT-DD

CONVERSION

DC-DC

INPUT

300 V

OUTPUT

24 V / 62.5 A

OPERATING RANGE

100-200 kHz

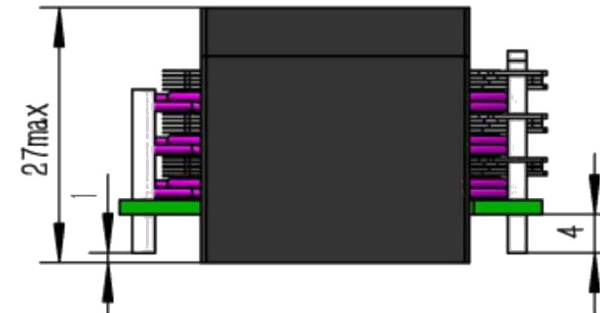
TYPICAL APPLICATIONS

- EV on-board chargers
- HV-LV DC-DC converters
- Battery power distribution

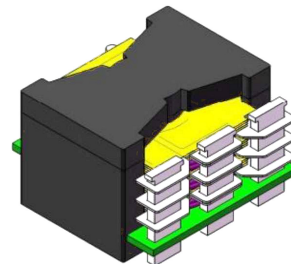
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MECHANICAL REFERENCE

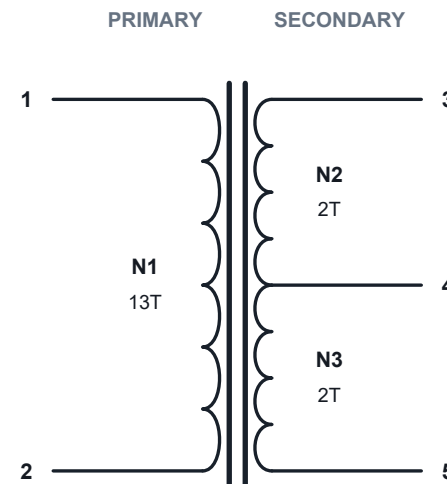
DIMENSIONS: mm



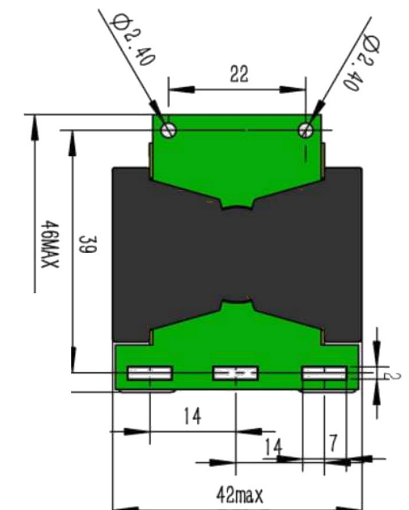
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-1K5-DD14

1.5 kW

MAIN SERIES AWHP / SUB-SERIES AWPT-DD

SERIES / SUB-SERIES
AWHP / AWPT-DD

CONVERSION
DC-DC

INPUT
300 V

OUTPUT
12 V / 125 A

OPERATING RANGE
100-200 kHz

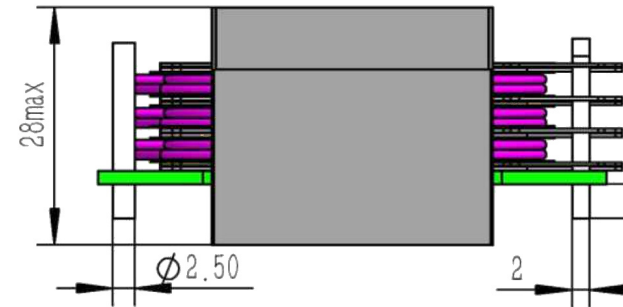
TYPICAL APPLICATIONS

- EV on-board chargers
- HV-LV DC-DC converters
- Battery power distribution

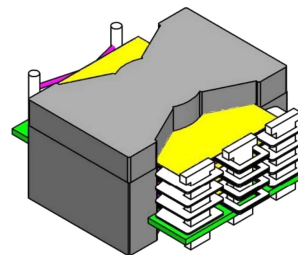
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

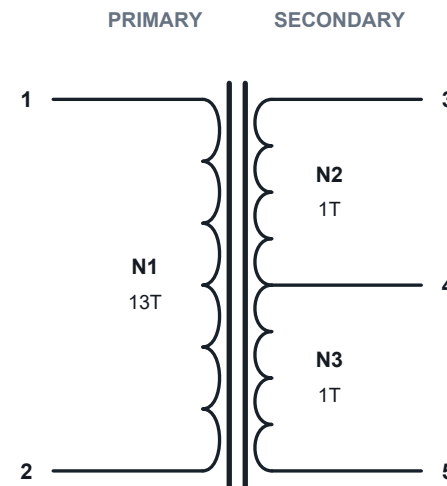
DIMENSIONS: mm



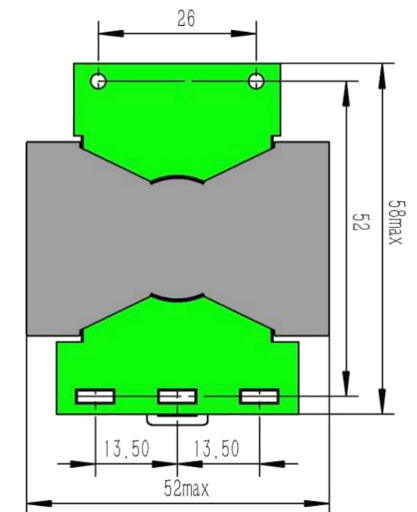
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-2K0-DD15

2 kW

MAIN SERIES AWHP / SUB-SERIES AWPT-DD

SERIES / SUB-SERIES
AWHP / AWPT-DD

CONVERSION
DC-DC

INPUT
300 V

OUTPUT
12 V / 170 A

OPERATING RANGE
100-200 kHz

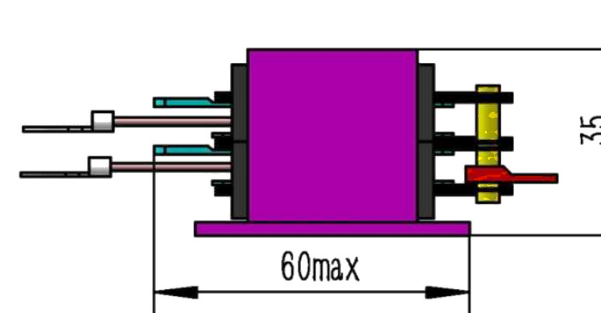
TYPICAL APPLICATIONS

- EV on-board chargers
- HV-LV DC-DC converters
- Battery power distribution

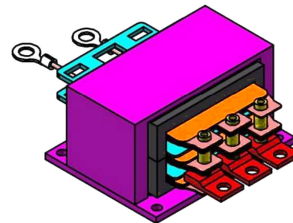
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

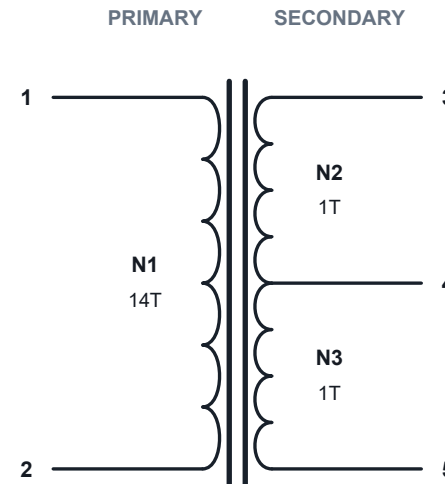
DIMENSIONS: mm



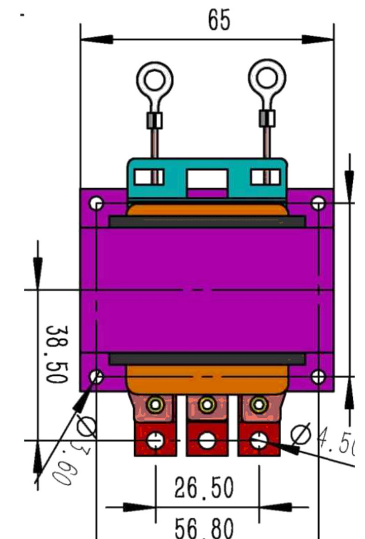
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-1K6-AD16

1.6 kW

MAIN SERIES AWHP / SUB-SERIES AWPT-AD

SERIES / SUB-SERIES
AWHP / AWPT-AD

CONVERSION
AC-DC

INPUT
300 V

OUTPUT
12 V / 130 A

OPERATING RANGE
100-300 kHz

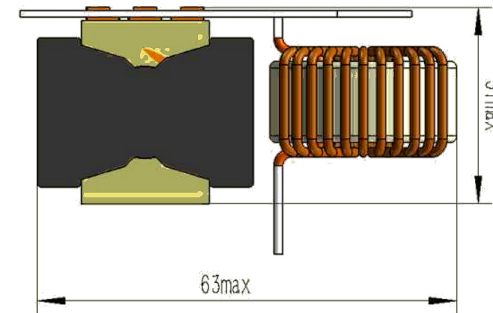
TYPICAL APPLICATIONS

- Server & data-center PSUs
- AI power shelves
- Isolated bus converters

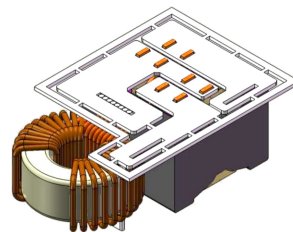
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

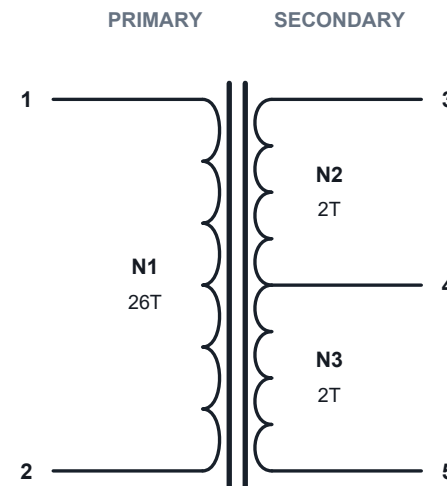
DIMENSIONS: mm



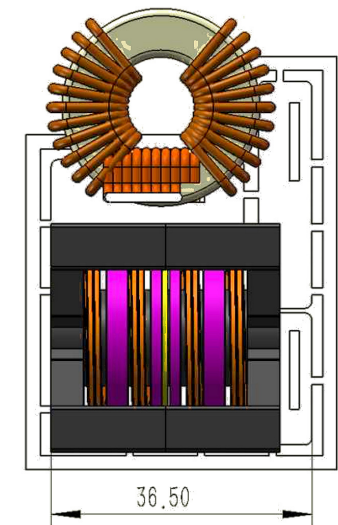
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-2K0-DD17
2 kW

MAIN SERIES AWHP / SUB-SERIES AWPT-DD

SERIES / SUB-SERIES
AWHP / AWPT-DD

CONVERSION

DC-DC

INPUT
48 V

OUTPUT
28 V / 75 A

OPERATING RANGE
200-500 kHz

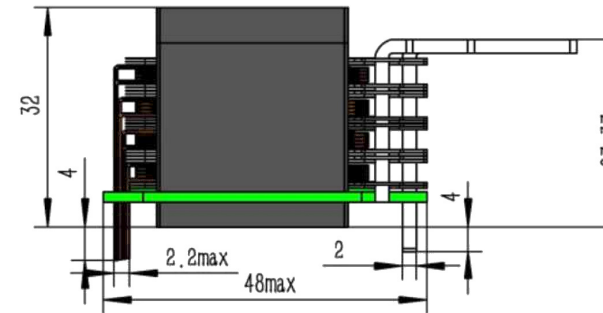
TYPICAL APPLICATIONS

- Telecom & datacom power
- Distributed DC power
- Server auxiliary rails

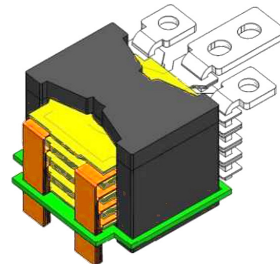
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

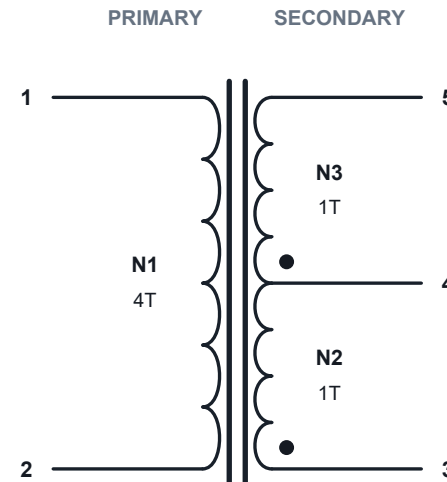
DIMENSIONS: mm



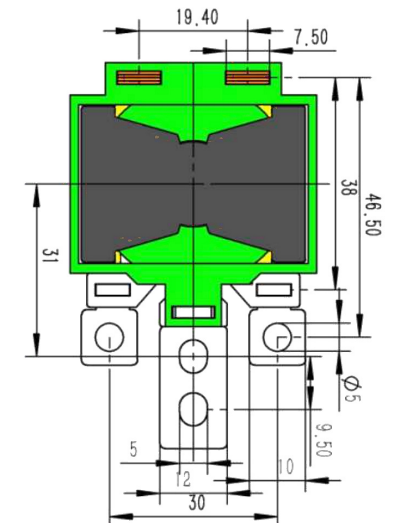
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION



TRANSFORMER

AWPT-2K5-DD18

2.5 kW

MAIN SERIES AWHP / SUB-SERIES AWPT-DD

SERIES / SUB-SERIES
AWHP / AWPT-DD

CONVERSION
DC-DC

INPUT
300 V

OUTPUT
12 V / 210 A

OPERATING RANGE
100-200 kHz

TYPICAL APPLICATIONS

- EV on-board chargers
- HV-LV DC-DC converters
- Battery power distribution

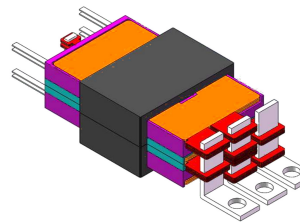
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

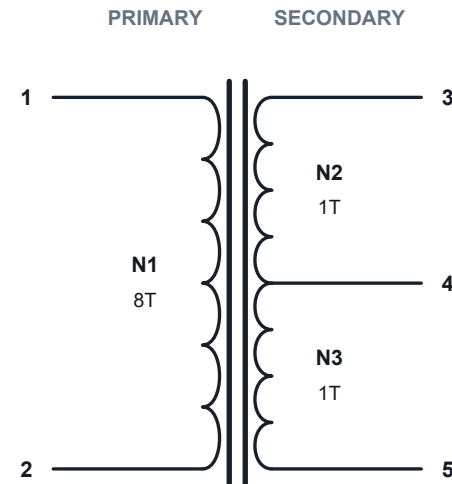
DIMENSIONS: mm



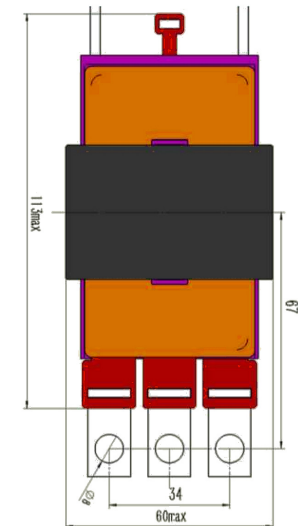
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-2K0-DD19

2 kW

MAIN SERIES AWHP / SUB-SERIES AWPT-DD

SERIES / SUB-SERIES
AWHP / AWPT-DD

CONVERSION
DC-DC

INPUT
300 V

OUTPUT
12 V / 180 A

OPERATING RANGE
100-200 kHz

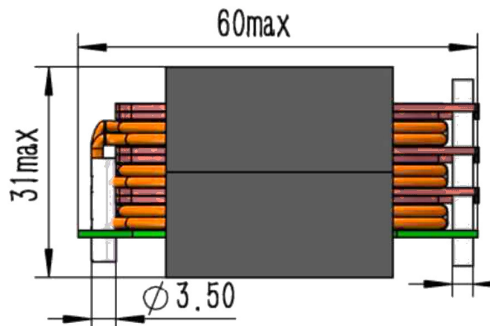
TYPICAL APPLICATIONS

- EV on-board chargers
- HV-LV DC-DC converters
- Battery power distribution

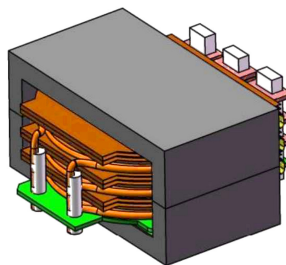
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

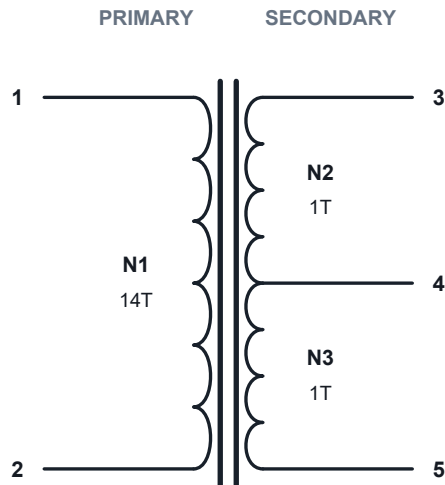
DIMENSIONS: mm



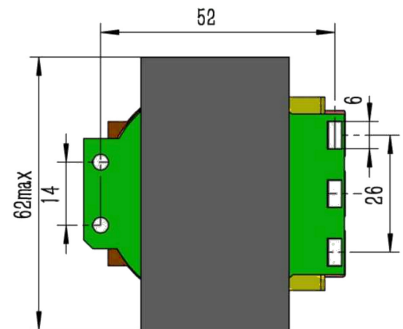
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-2K0-DD20

2 kW

MAIN SERIES AWHP / SUB-SERIES AWPT-DD

SERIES / SUB-SERIES
AWHP / AWPT-DD

CONVERSION
DC-DC

INPUT
300 V

OUTPUT
12 V / 170 A

OPERATING RANGE
100-200 kHz

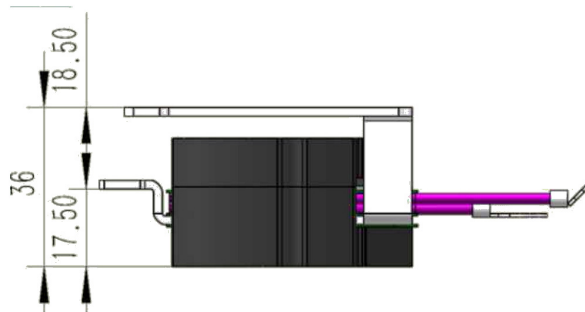
TYPICAL APPLICATIONS

- EV on-board chargers
- HV-LV DC-DC converters
- Battery power distribution

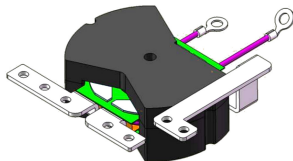
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

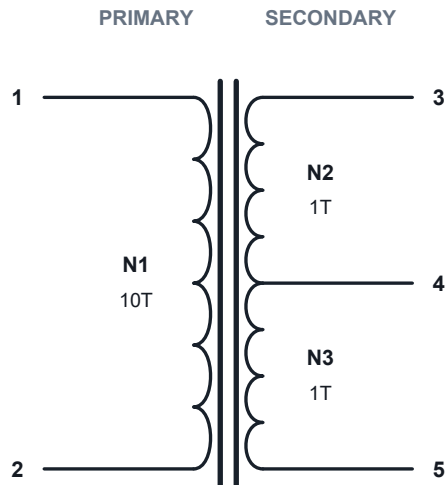
DIMENSIONS: mm



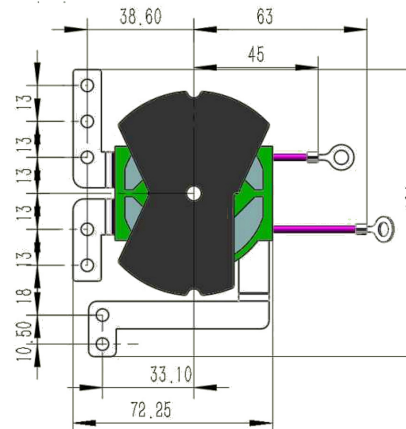
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-3K0-DD21

3 kW

MAIN SERIES AWHP / SUB-SERIES AWPT-DD

SERIES / SUB-SERIES

AWHP / AWPT-DD

CONVERSION

DC-DC

INPUT

400 V

OUTPUT

12 V / 250 A

OPERATING RANGE

80-300 kHz

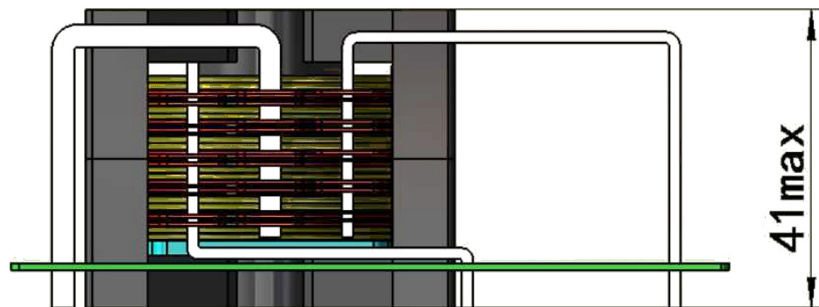
TYPICAL APPLICATIONS

- Battery precharge systems
- Energy-storage converters
- EV charging infrastructure

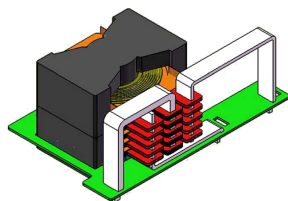
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

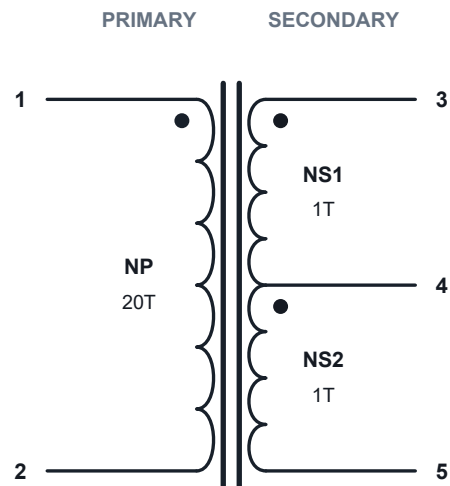
DIMENSIONS: mm



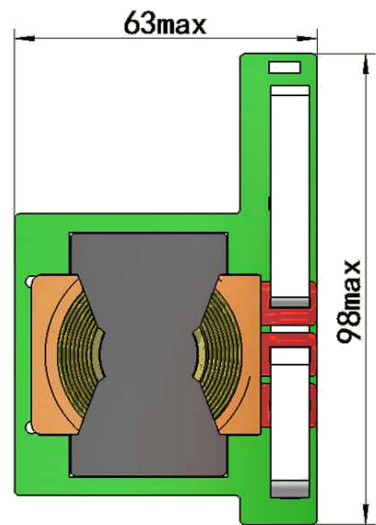
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-3K0-DD22

3 kW

MAIN SERIES AWHP / SUB-SERIES AWPT-DD

SERIES / SUB-SERIES
AWHP / AWPT-DD

CONVERSION
DC-DC

INPUT
300 V

OUTPUT
12 V / 250 A

OPERATING RANGE
100-200 kHz

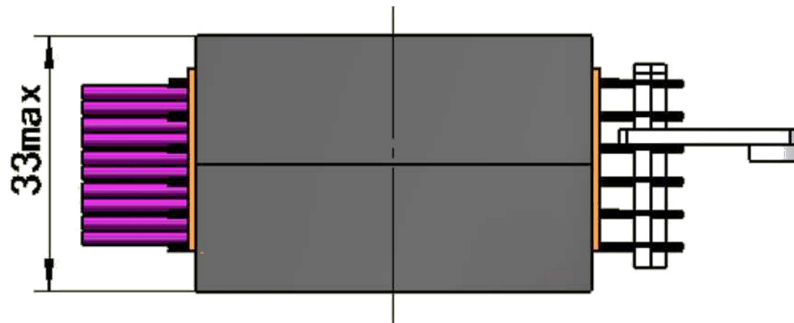
TYPICAL APPLICATIONS

- EV on-board chargers
- HV-LV DC-DC converters
- Battery power distribution

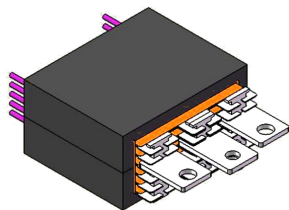
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

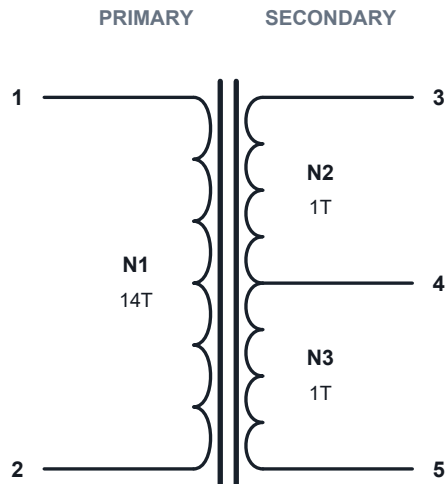
DIMENSIONS: mm



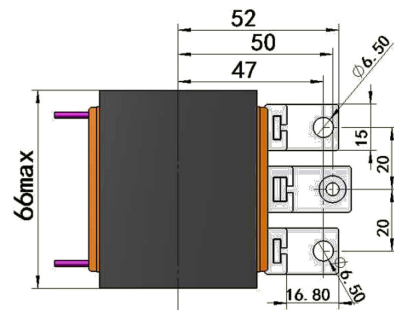
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-3K0-DD23

3 kW

MAIN SERIES AWHP / SUB-SERIES AWPT-DD

SERIES / SUB-SERIES
AWHP / AWPT-DD

CONVERSION
DC-DC

INPUT
300 V

OUTPUT
12 V / 250 A

OPERATING RANGE
100-200 kHz

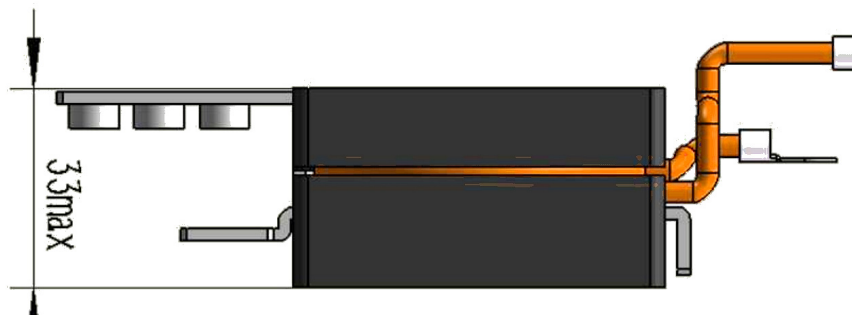
TYPICAL APPLICATIONS

- EV on-board chargers
- HV-LV DC-DC converters
- Battery power distribution

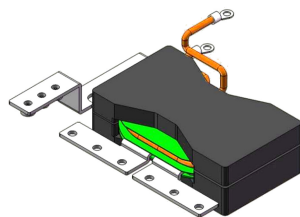
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

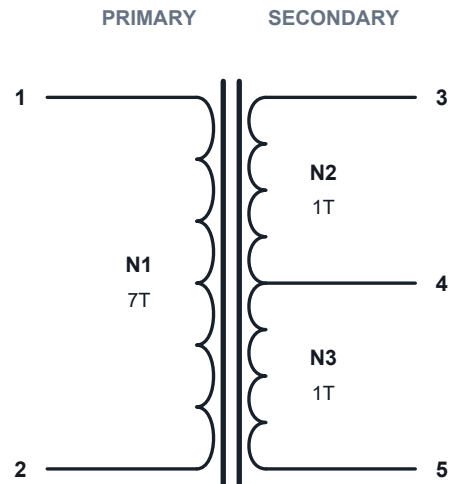
DIMENSIONS: mm



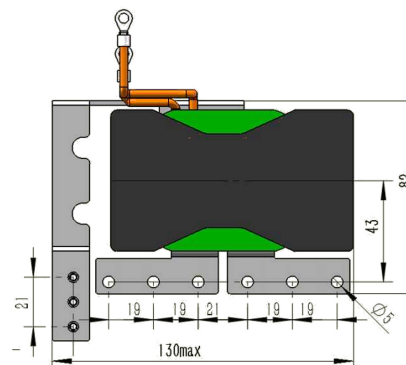
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-6K6-DD24

6.6 kW

MAIN SERIES AWHP / SUB-SERIES AWPT-DD

SERIES / SUB-SERIES
AWHP / AWPT-DD

CONVERSION
DC-DC

INPUT
400 V

OUTPUT
400 V / 17 A

OPERATING RANGE
100-200 kHz

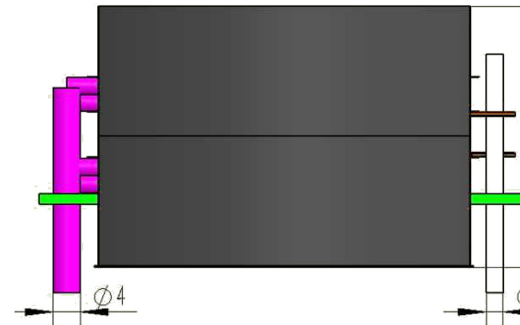
TYPICAL APPLICATIONS

- EV on-board chargers
- HV-LV DC-DC converters
- Battery power distribution

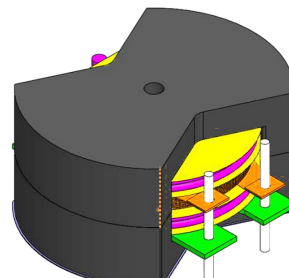
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

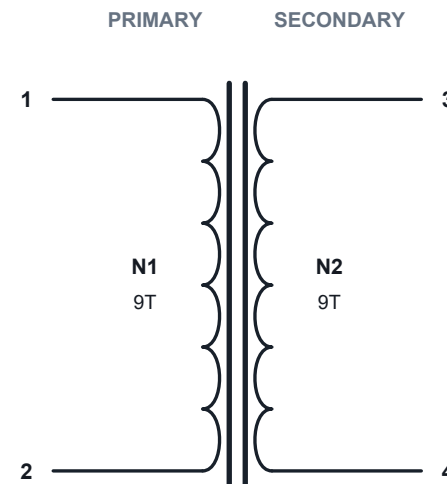
DIMENSIONS: mm



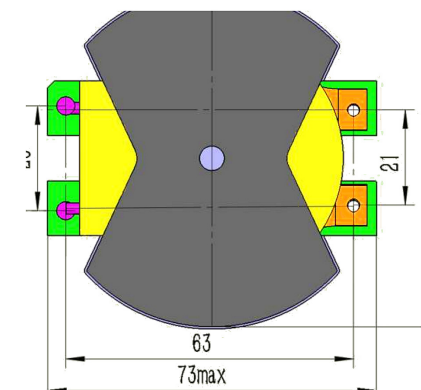
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-6K6-DD25

6.6 kW

MAIN SERIES AWHP / SUB-SERIES AWPT-DD

SERIES / SUB-SERIES
AWHP / AWPT-DD

CONVERSION
DC-DC

INPUT
390 V

OUTPUT
300 V / 22 A

OPERATING RANGE
200-500 kHz

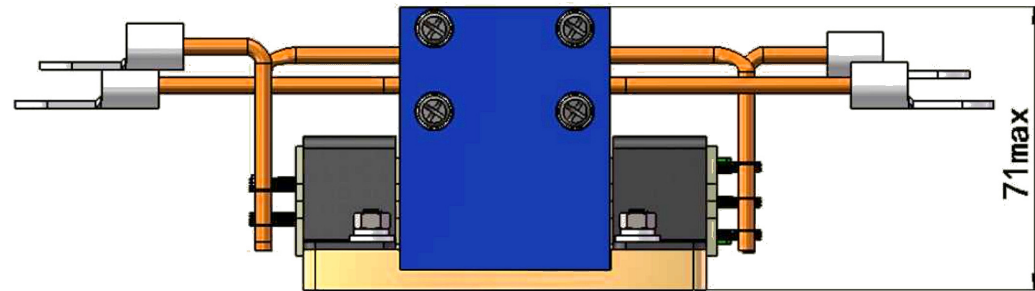
TYPICAL APPLICATIONS

- EV on-board chargers
- HV-LV DC-DC converters
- Battery power distribution

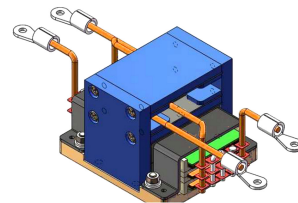
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

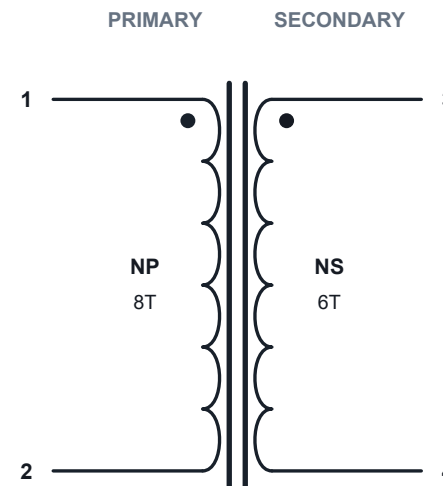
DIMENSIONS: mm



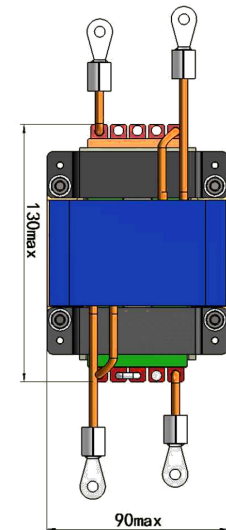
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-6K6-OB26

6.6 kW

MAIN SERIES AWHP / SUB-SERIES AWPT-OB

SERIES / SUB-SERIES
AWHP / AWPT-OB

CONVERSION
OBC + DC-DC

INPUT
300-500 V

OUTPUT
128-500 V

OPERATING RANGE
100-300 kHz

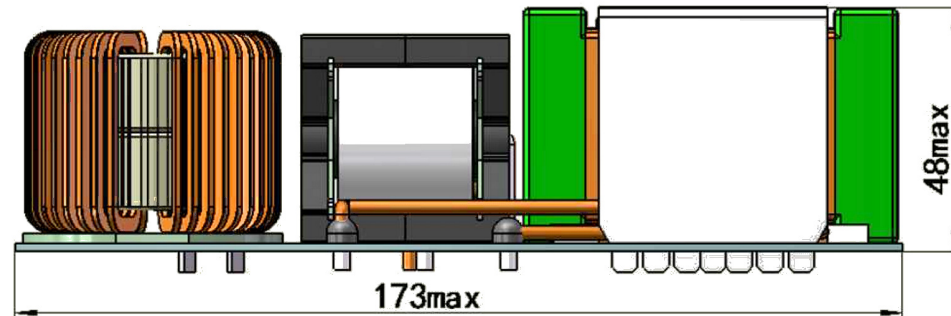
TYPICAL APPLICATIONS

- EV on-board chargers
- HV-LV DC-DC converters
- Battery power distribution

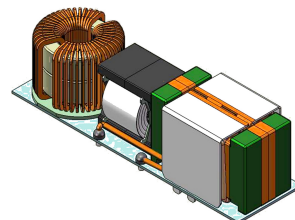
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

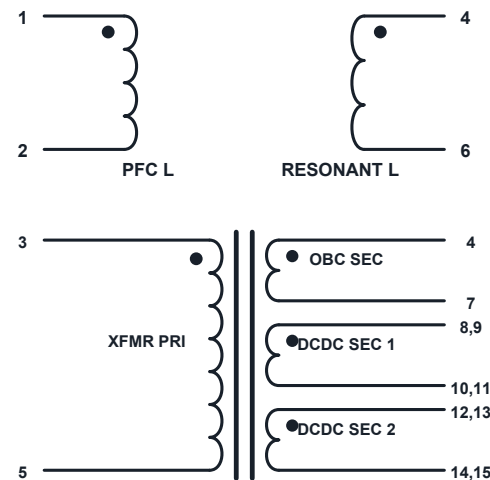
DIMENSIONS: mm



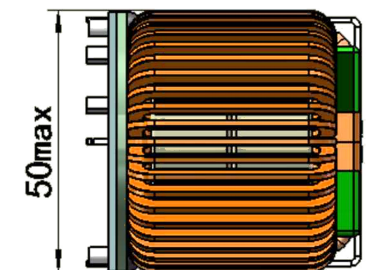
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-7K7-DD27

7.7 kW

MAIN SERIES AWHP / SUB-SERIES AWPT-DD

SERIES / SUB-SERIES
AWHP / AWPT-DD

CONVERSION
DC-DC

INPUT
300 V

OUTPUT
300 V / 26 A

OPERATING RANGE
200-500 kHz

TYPICAL APPLICATIONS

- EV on-board chargers
- HV-LV DC-DC converters
- Battery power distribution

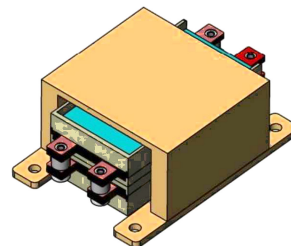
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

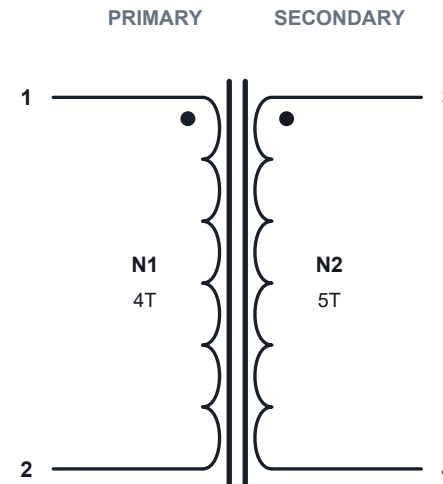
DIMENSIONS: mm



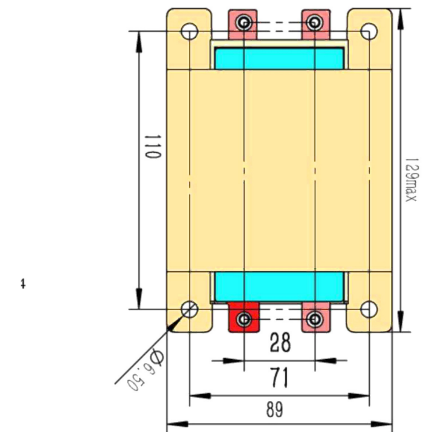
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-10K-DD28

10 kW

MAIN SERIES AWHP / SUB-SERIES AWPT-DD

SERIES / SUB-SERIES
AWHP / AWPT-DD

CONVERSION
DC-DC

INPUT
300 V

OUTPUT
72 V / 138 A

OPERATING RANGE
80-200 kHz

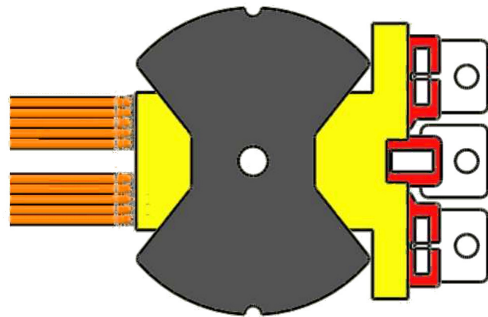
TYPICAL APPLICATIONS

- EV on-board chargers
- HV-LV DC-DC converters
- Battery power distribution

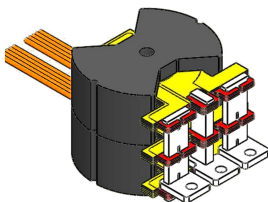
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

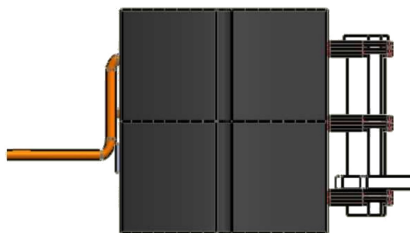
DIMENSIONS: mm



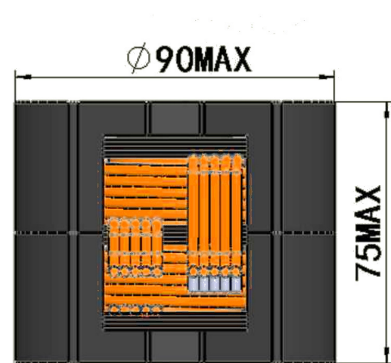
PRODUCT CONCEPT



ADDITIONAL VIEW



PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-10K-AD29

10 kW

MAIN SERIES AWHP / SUB-SERIES AWPT-AD

SERIES / SUB-SERIES
AWHP / AWPT-AD

CONVERSION
AC-DC

INPUT
300 V

OUTPUT
80 V / 125 A

OPERATING RANGE
30-80 kHz

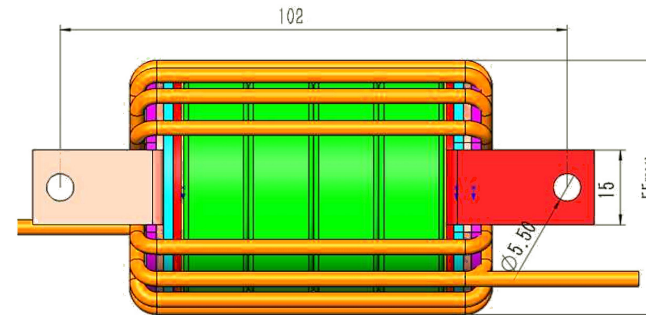
TYPICAL APPLICATIONS

- Industrial power conversion
- Battery charging systems
- Welding / laser / test equipment

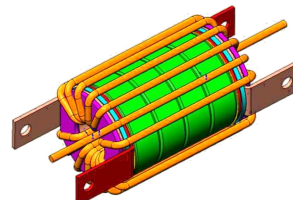
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

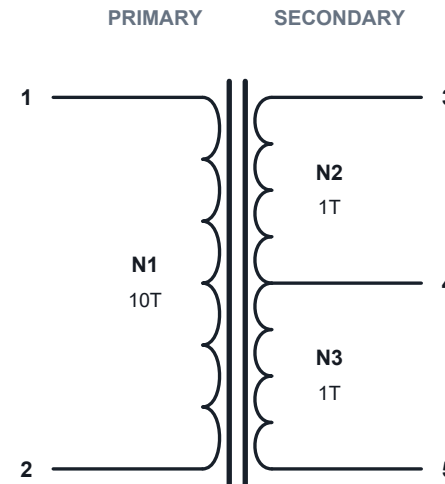
DIMENSIONS: mm



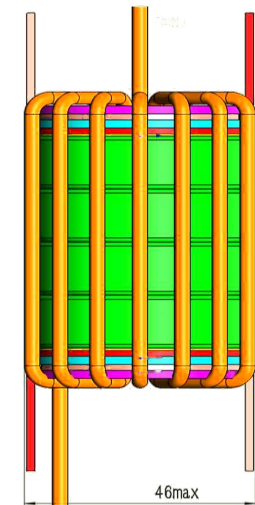
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-40K-AD30

40 kW

MAIN SERIES AWHP / SUB-SERIES AWPT-AD

SERIES / SUB-SERIES
AWHP / AWPT-AD

CONVERSION
AC-DC

INPUT
300 V

OUTPUT
60 V / 700 A

OPERATING RANGE
30-80 kHz

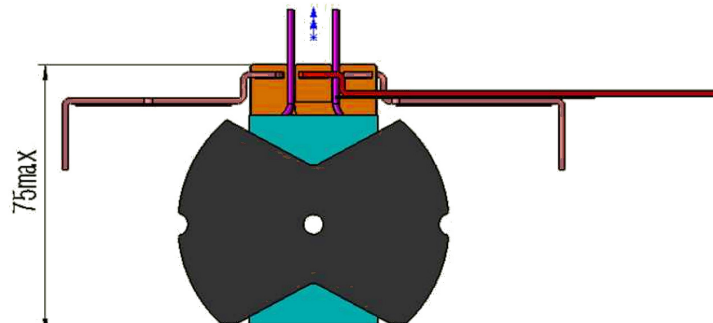
TYPICAL APPLICATIONS

- Industrial power conversion
- Battery charging systems
- Welding / laser / test equipment

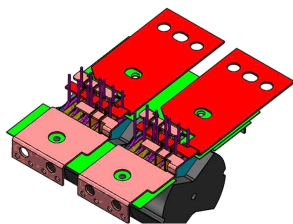
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

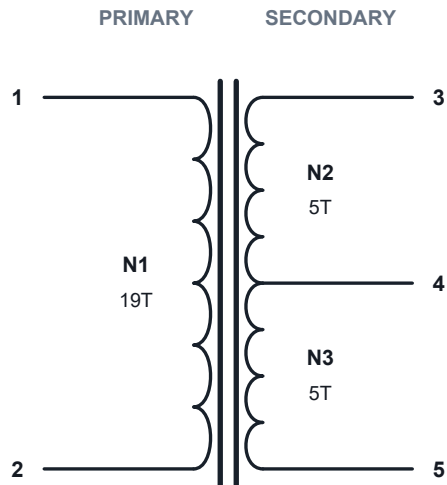
DIMENSIONS: mm



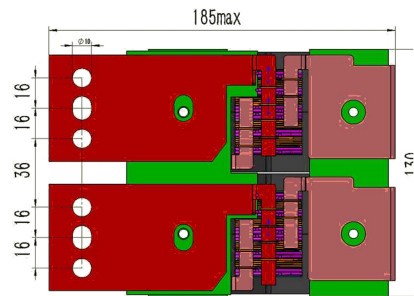
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-13K-AD31

13 kW

MAIN SERIES AWHP / SUB-SERIES AWPT-AD

SERIES / SUB-SERIES
AWHP / AWPT-AD

CONVERSION
AC-DC

INPUT
300 V

OUTPUT
60 V / 220 A

OPERATING RANGE
30-80 kHz

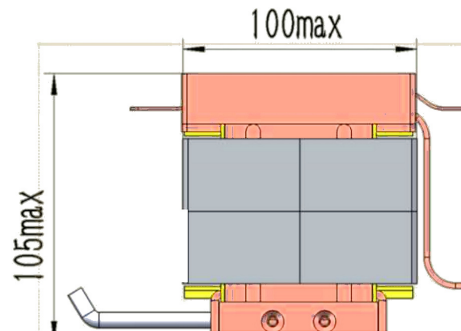
TYPICAL APPLICATIONS

- Industrial power conversion
- Battery charging systems
- Welding / laser / test equipment

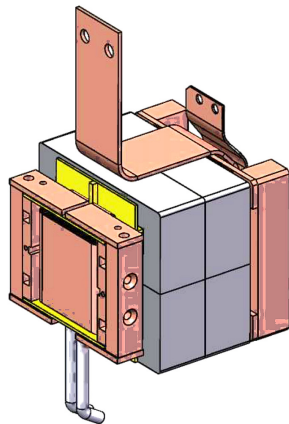
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

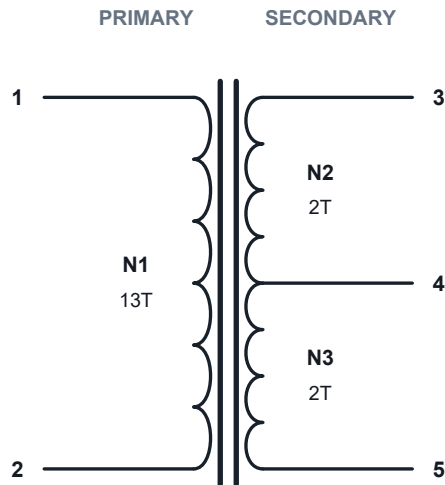
DIMENSIONS: mm



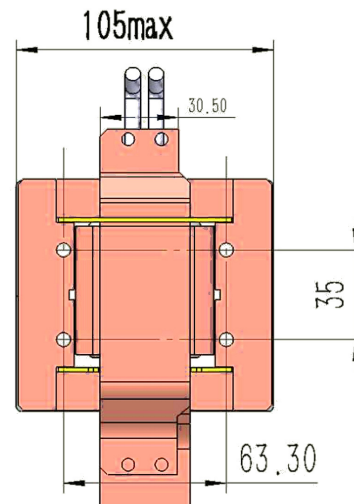
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-75K-DD32

75 kW

MAIN SERIES AWHP / SUB-SERIES AWPT-DD

SERIES / SUB-SERIES
AWHP / AWPT-DD

CONVERSION
DC-DC

INPUT
375 V

OUTPUT
600 V / 125 A

OPERATING RANGE
20-80 kHz

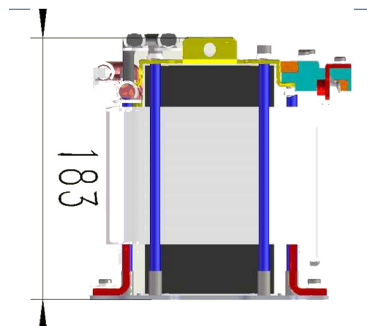
TYPICAL APPLICATIONS

- EV on-board chargers
- HV-LV DC-DC converters
- Battery power distribution

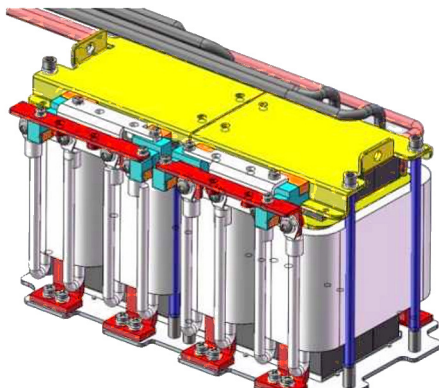
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

DIMENSIONS: mm

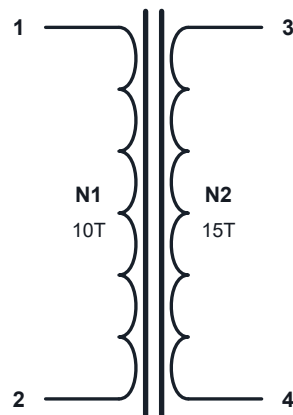


PRODUCT CONCEPT

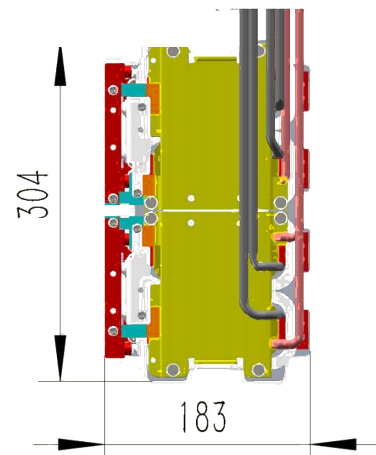


SCHEMATIC

PRIMARY SECONDARY



PACKAGE / TERMINATION mm



TRANSFORMER

AWPT-125K-AD33

125 kW

MAIN SERIES AWHP / SUB-SERIES AWPT-AD

SERIES / SUB-SERIES

AWHP / AWPT-AD

CONVERSION

AC-DC

INPUT

445 V

OUTPUT

445 V / 280 A

OPERATING RANGE

20-80 kHz

TYPICAL APPLICATIONS

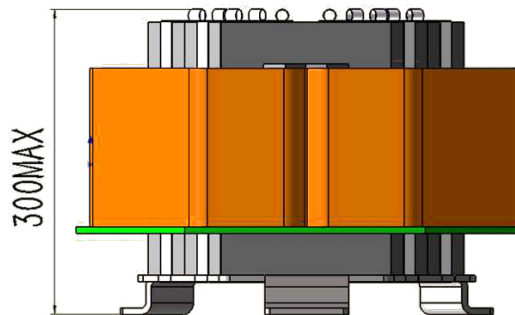
- Industrial power conversion
- Battery charging systems
- Welding / laser / test equipment

Reference design; final values require project validation.

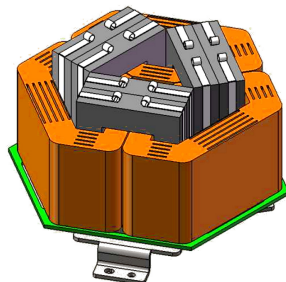
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

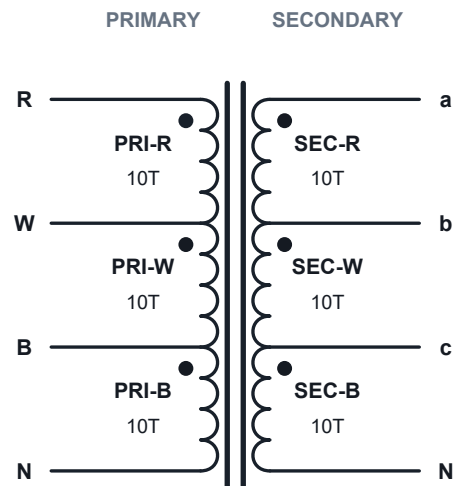
DIMENSIONS: mm



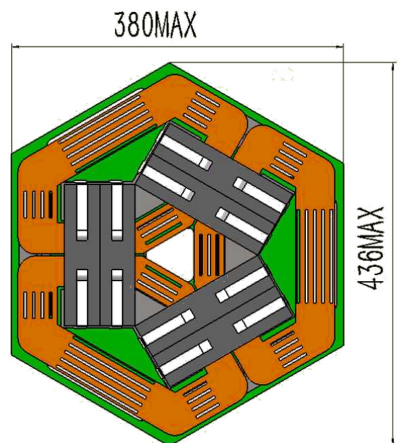
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



POWER INDUCTORS

Application-specific energy storage, boost and filter magnetics across a wide current range.

AWHP PORTFOLIO / SUB-SERIES

AWHPI-DC HIGH-CURRENT POWER INDUCTORS

22 REFERENCE DESIGNS

INDUCTOR

AWHPI-7U-020A-01

7 μ H / 20 A

MAIN SERIES AWHP / SUB-SERIES AWHPI-DC

SERIES / SUB-SERIES

AWHP / AWHPI-DC

COMPONENT

Power inductor

PLATFORM

DC-DC

DESIGN BASIS

Custom

LIMIT / NOTE

200-500 kHz

TYPICAL APPLICATIONS

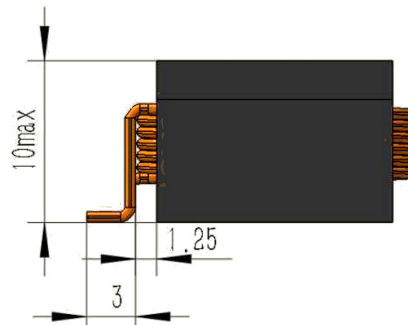
- High-frequency DC-DC
- Distributed power modules
- Industrial electronics

Reference design; final values require project validation.

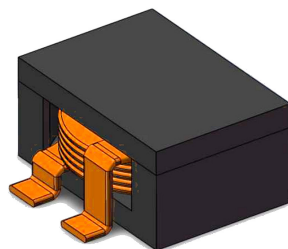
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

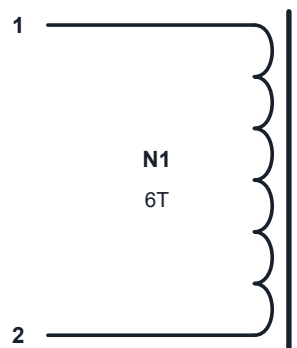
DIMENSIONS: mm



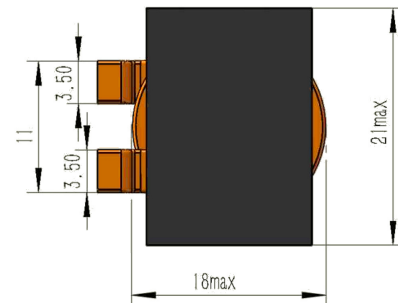
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



INDUCTOR

AWHPI-1U-180A-02 1 μ H / 180 A

MAIN SERIES AWHP / SUB-SERIES AWHPI-DC

SERIES / SUB-SERIES

AWHP / AWHPI-DC

COMPONENT

Power inductor

PLATFORM

DC-DC

DESIGN BASIS

Custom

LIMIT / NOTE

Custom

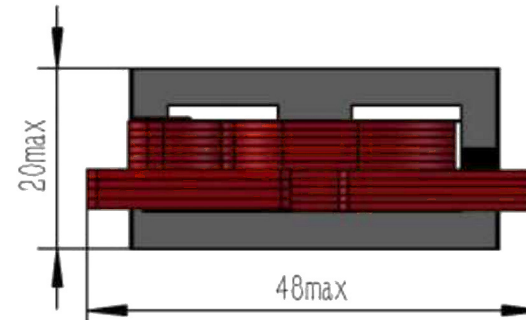
TYPICAL APPLICATIONS

- EV on-board chargers
- HV-LV DC-DC converters
- Battery power distribution

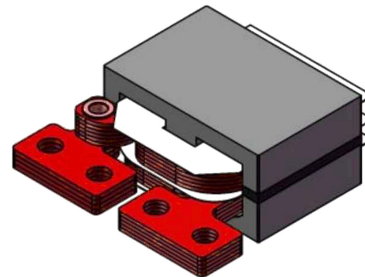
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

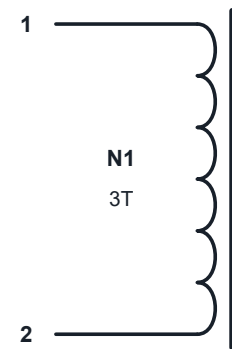
DIMENSIONS: mm



PRODUCT CONCEPT

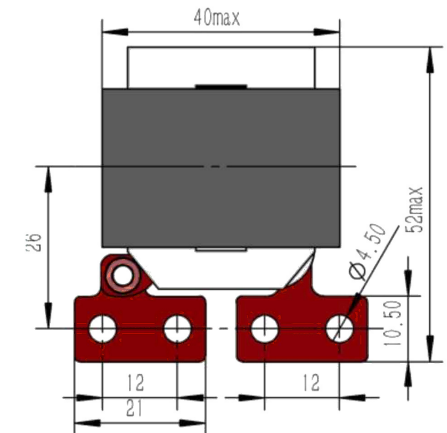


SCHEMATIC



PACKAGE / TERMINATION

mm



INDUCTOR

AWHPI-10U-035A-03

10 μ H / 35 A

MAIN SERIES AWHP / SUB-SERIES AWHPI-DC

SERIES / SUB-SERIES

AWHP / AWHPI-DC

COMPONENT

Power inductor

PLATFORM

DC-DC

DESIGN BASIS

Custom

LIMIT / NOTE

Custom

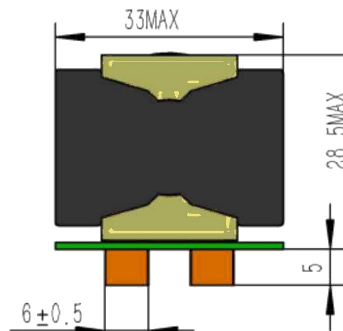
TYPICAL APPLICATIONS

- Telecom & datacom power
- Distributed DC power
- Server auxiliary rails

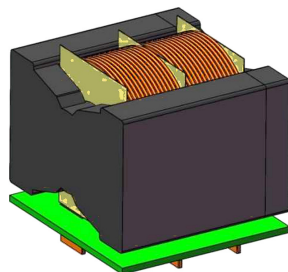
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

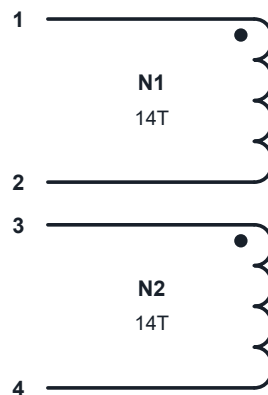
DIMENSIONS: mm



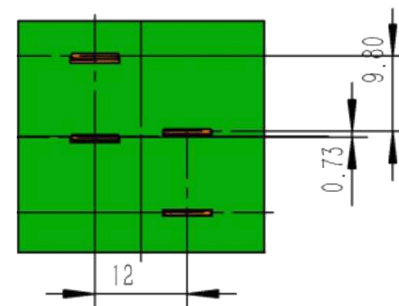
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



INDUCTOR

AWHPI-2U-130A-04

2 μ H / 130 A

MAIN SERIES AWHP / SUB-SERIES AWHPI-DC

SERIES / SUB-SERIES

AWHP / AWHPI-DC

COMPONENT

Power inductor

PLATFORM

DC-DC

DESIGN BASIS

Custom

LIMIT / NOTE

Custom

TYPICAL APPLICATIONS

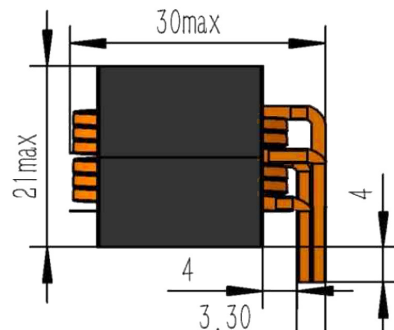
- EV on-board chargers
- HV-LV DC-DC converters
- Battery power distribution

Reference design; final values require project validation.

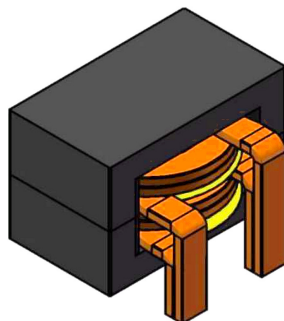
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

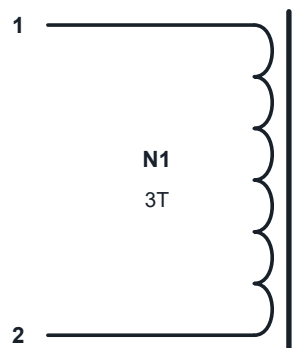
DIMENSIONS: mm



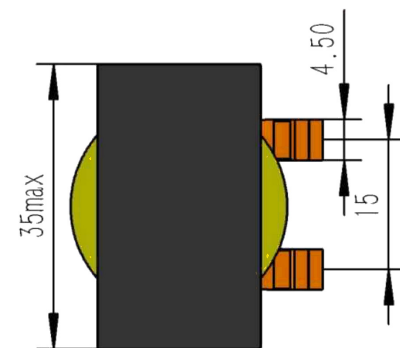
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



INDUCTOR

AWHPI-0R5U-080A-05

0.5 μ H / 80 A

MAIN SERIES AWHP / SUB-SERIES AWHPI-DC

SERIES / SUB-SERIES

AWHP / AWHPI-DC

COMPONENT

Power inductor

PLATFORM

DC-DC

DESIGN BASIS

Custom

LIMIT / NOTE

Custom

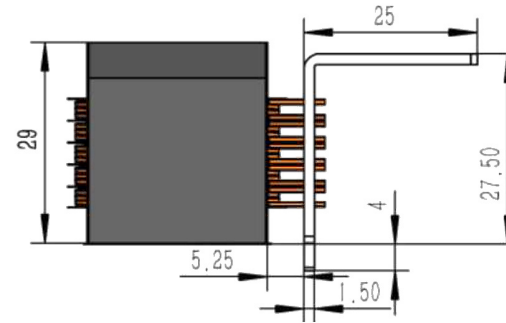
TYPICAL APPLICATIONS

- Telecom & datacom power
- Distributed DC power
- Server auxiliary rails

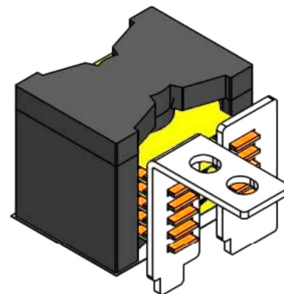
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

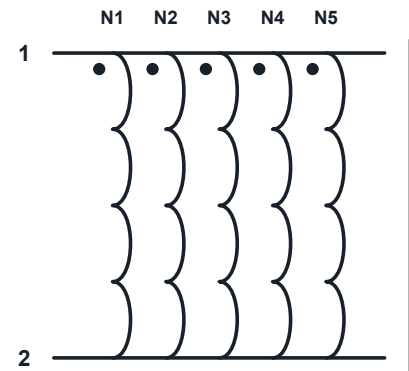
DIMENSIONS: mm



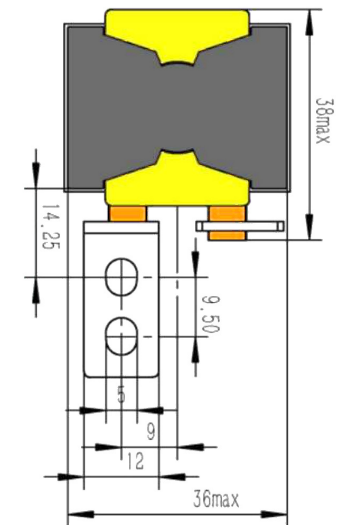
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



INDUCTOR

AWHPI-12U-025A-06 12 μ H / 25 A

MAIN SERIES AWHP / SUB-SERIES AWHPI-DC

SERIES / SUB-SERIES

AWHP / AWHPI-DC

COMPONENT

Power inductor

PLATFORM

DC-DC

DESIGN BASIS

Custom

LIMIT / NOTE

Custom

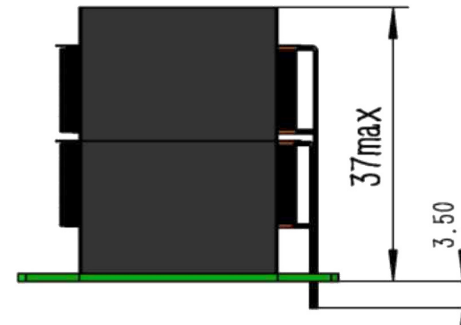
TYPICAL APPLICATIONS

- Telecom & datacom power
- Distributed DC power
- Server auxiliary rails

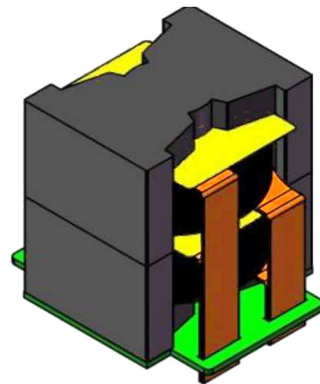
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

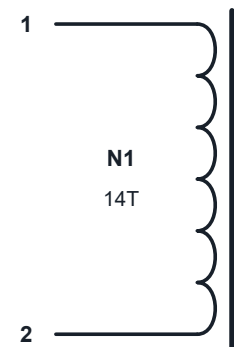
DIMENSIONS: mm



PRODUCT CONCEPT

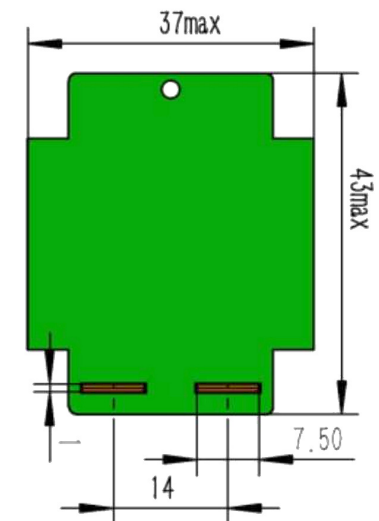


SCHEMATIC



PACKAGE / TERMINATION

mm



INDUCTOR

AWHPI-2U-040A-07

2 μ H / 40 A

MAIN SERIES AWHP / SUB-SERIES AWHPI-DC

SERIES / SUB-SERIES

AWHP / AWHPI-DC

COMPONENT

Power inductor

PLATFORM

DC-DC

DESIGN BASIS

Custom

LIMIT / NOTE

Custom

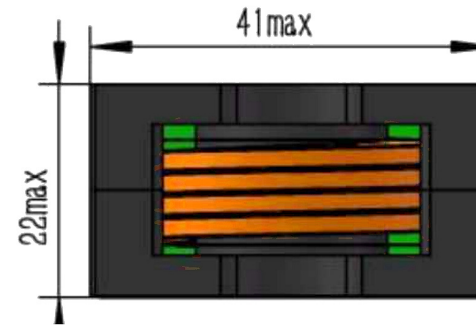
TYPICAL APPLICATIONS

- Telecom & datacom power
- Distributed DC power
- Server auxiliary rails

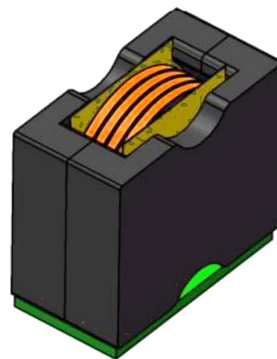
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

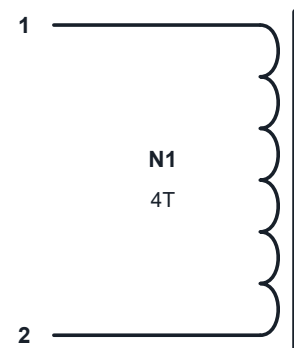
DIMENSIONS: mm



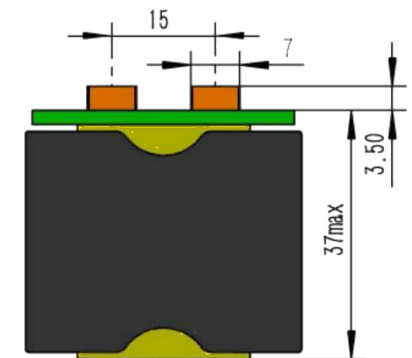
PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION mm



INDUCTOR

AWHPI-1R5U-015A-08

1.5 μ H / 15 A

MAIN SERIES AWHP / SUB-SERIES AWHPI-DC

SERIES / SUB-SERIES

AWHP / AWHPI-DC

COMPONENT

Power inductor

PLATFORM

DC-DC

DESIGN BASIS

Custom

LIMIT / NOTE

Custom

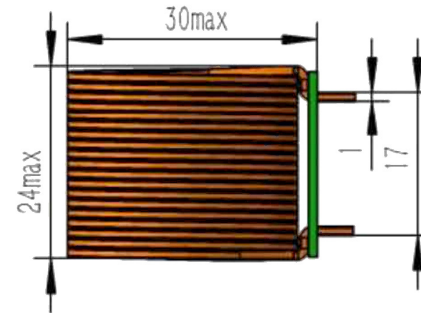
TYPICAL APPLICATIONS

- Telecom & datacom power
- Distributed DC power
- Server auxiliary rails

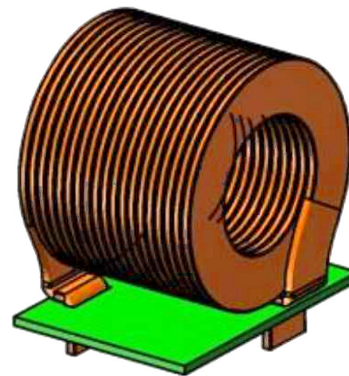
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

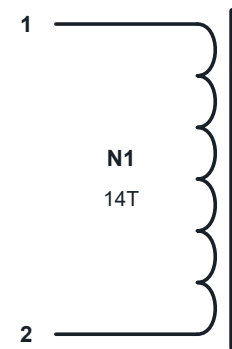
DIMENSIONS: mm



PRODUCT CONCEPT

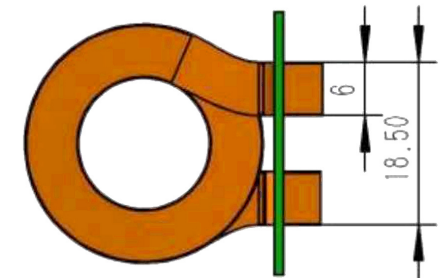


SCHEMATIC



PACKAGE / TERMINATION

mm



INDUCTOR

AWHPI-5U-035A-09

5 μ H / 35 A

MAIN SERIES AWHP / SUB-SERIES AWHPI-DC

SERIES / SUB-SERIES

AWHP / AWHPI-DC

COMPONENT

Power inductor

PLATFORM

DC-DC

DESIGN BASIS

Custom

LIMIT / NOTE

Custom

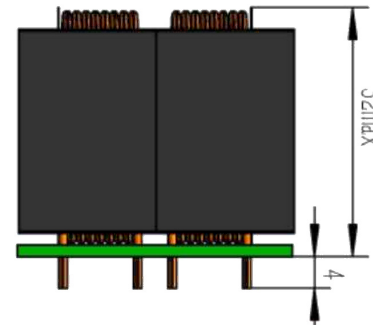
TYPICAL APPLICATIONS

- EV on-board chargers
- HV-LV DC-DC converters
- Battery power distribution

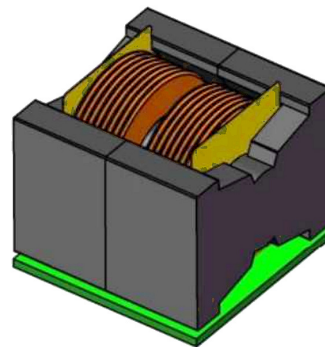
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

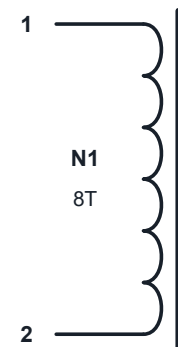
DIMENSIONS: mm



PRODUCT CONCEPT

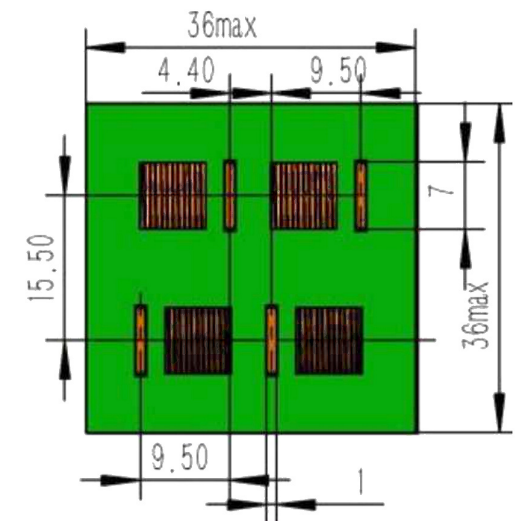


SCHEMATIC



PACKAGE / TERMINATION

mm



INDUCTOR

AWHPI-800U-050A-10

800 μ H / 50 A

MAIN SERIES AWHP / SUB-SERIES AWHPI-DC

SERIES / SUB-SERIES

AWHP / AWHPI-DC

COMPONENT

Boost inductor

PLATFORM

DC-DC

DESIGN BASIS

Custom

LIMIT / NOTE

Custom

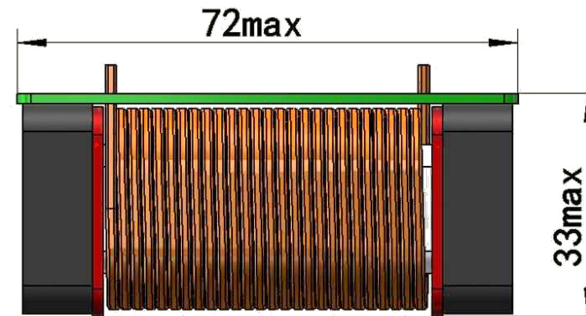
TYPICAL APPLICATIONS

- EV charging cabinets
- Boost / PFC stages
- Energy-storage converters

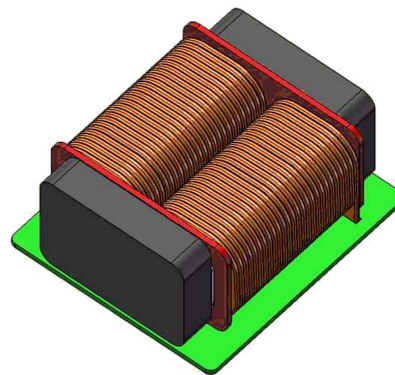
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

DIMENSIONS: mm



PRODUCT CONCEPT



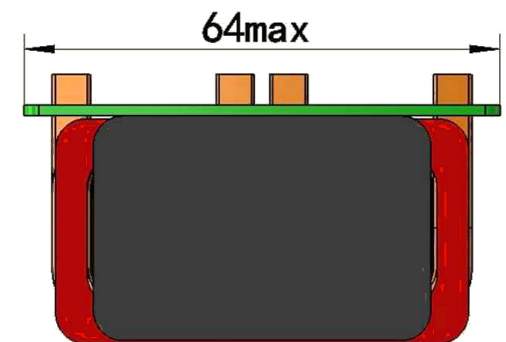
SCHEMATIC STATUS

SCHEMATIC NOT PROVIDED

WINDING DATA AVAILABLE
FOR QUALIFIED PROJECTS

PACKAGE / TERMINATION

mm



INDUCTOR

AWHPI-8U-100A-11

8 μ H / 100 A

MAIN SERIES AWHP / SUB-SERIES AWHPI-DC

SERIES / SUB-SERIES

AWHP / AWHPI-DC

COMPONENT

Power inductor

PLATFORM

DC-DC

DESIGN BASIS

Custom

LIMIT / NOTE

Custom

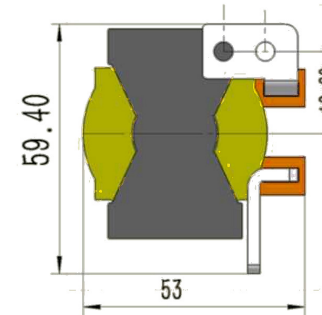
TYPICAL APPLICATIONS

- Industrial power conversion
- Battery charging systems
- Welding / laser / test equipment

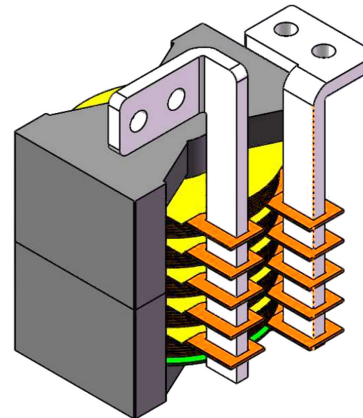
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

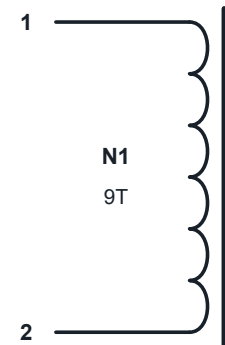
DIMENSIONS: mm



PRODUCT CONCEPT

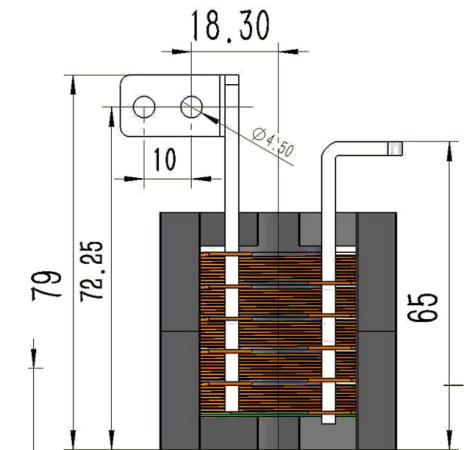


SCHEMATIC



PACKAGE / TERMINATION

mm



INDUCTOR

AWHPI-200U-150A-12

200 μ H / 150 A

MAIN SERIES AWHP / SUB-SERIES AWHPI-DC

SERIES / SUB-SERIES

AWHP / AWHPI-DC

COMPONENT

Power inductor

PLATFORM

DC-DC

DESIGN BASIS

Custom

LIMIT / NOTE

Custom

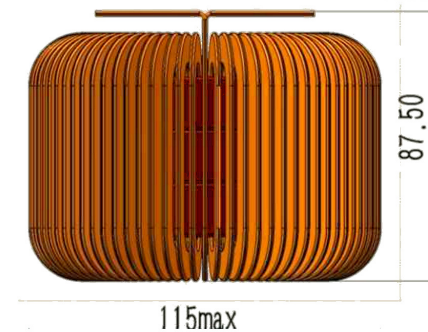
TYPICAL APPLICATIONS

- Solar & storage inverters
- UPS / battery systems
- Grid-tied power conversion

Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

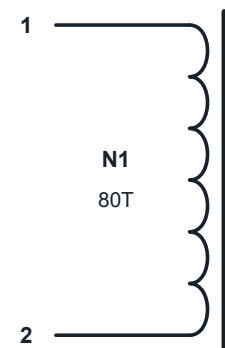
DIMENSIONS: mm



PRODUCT CONCEPT

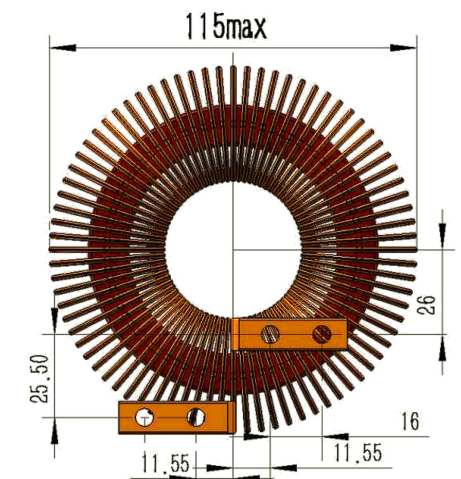


SCHEMATIC



PACKAGE / TERMINATION

mm



INDUCTOR

AWHPI-23U-045A-13

23 μ H / 45 A

MAIN SERIES AWHP / SUB-SERIES AWHPI-DC

SERIES / SUB-SERIES

AWHP / AWHPI-DC

COMPONENT

Power inductor

PLATFORM

DC-DC

DESIGN BASIS

Custom

LIMIT / NOTE

$R < 3 \text{ m}\Omega$

TYPICAL APPLICATIONS

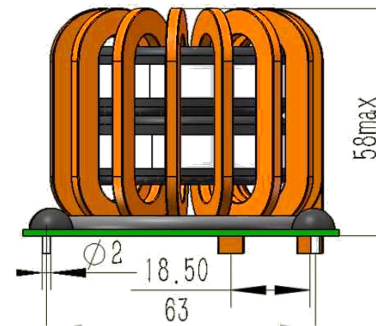
- Solar & storage inverters
- UPS / battery systems
- Grid-tied power conversion

Reference design; final values require project validation.

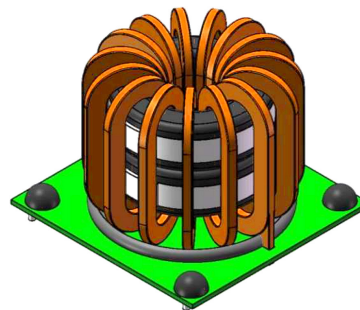
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

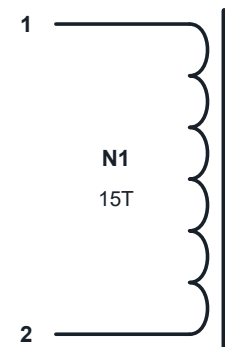
DIMENSIONS: mm



PRODUCT CONCEPT

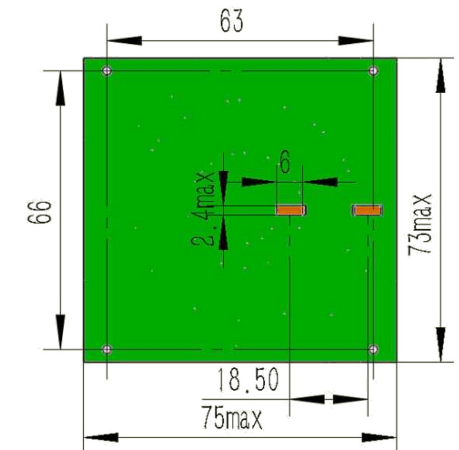


SCHEMATIC



PACKAGE / TERMINATION

mm



INDUCTOR

AWHPI-500U-064A-14

500 μ H / 64 A

MAIN SERIES AWHP / SUB-SERIES AWHPI-DC

SERIES / SUB-SERIES

AWHP / AWHPI-DC

COMPONENT

Power inductor

PLATFORM

DC-DC

DESIGN BASIS

Custom

LIMIT / NOTE

11 mOhm max

TYPICAL APPLICATIONS

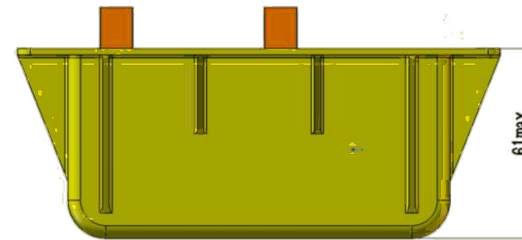
- Solar & storage inverters
- UPS / battery systems
- Grid-tied power conversion

Reference design; final values require project validation.

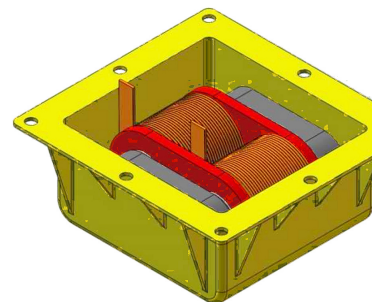
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

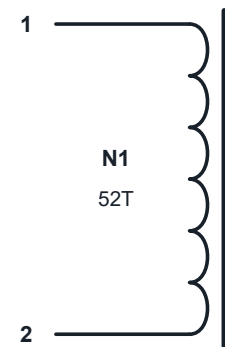
DIMENSIONS: mm



PRODUCT CONCEPT

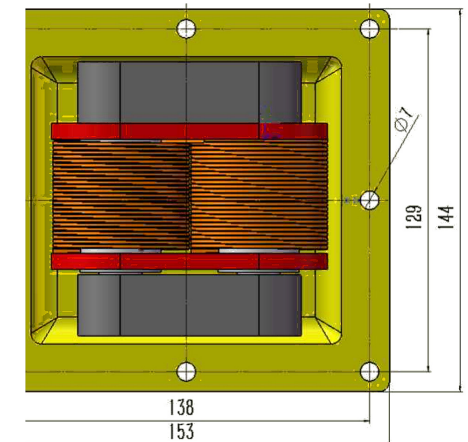


SCHEMATIC



PACKAGE / TERMINATION

mm



INDUCTOR

AWHPI-600U-010A-15

600 μ H / 10 A

MAIN SERIES AWHP / SUB-SERIES AWHPI-DC

SERIES / SUB-SERIES

AWHP / AWHPI-DC

COMPONENT

Power inductor

PLATFORM

DC-DC

DESIGN BASIS

Custom

LIMIT / NOTE

Custom

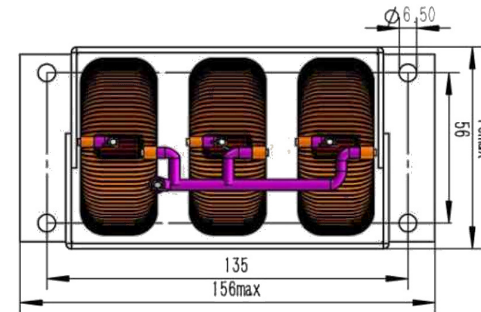
TYPICAL APPLICATIONS

- Solar & storage inverters
- UPS / battery systems
- Grid-tied power conversion

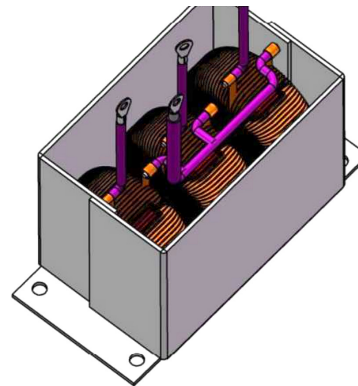
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

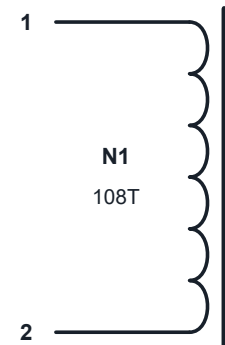
DIMENSIONS: mm



PRODUCT CONCEPT

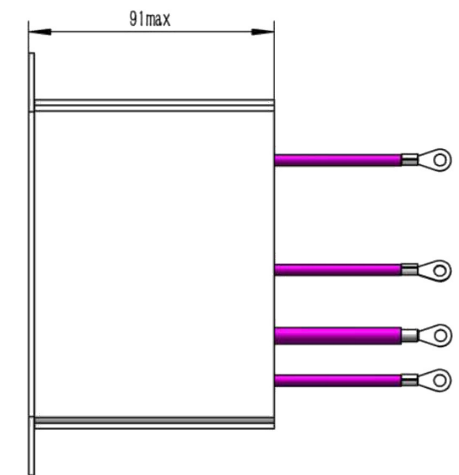


SCHEMATIC



PACKAGE / TERMINATION

mm



INDUCTOR

AWHPI-1M-007A-16

1 mH / 7 A

MAIN SERIES AWHP / SUB-SERIES AWHPI-DC

SERIES / SUB-SERIES

AWHP / AWHPI-DC

COMPONENT

Power inductor

PLATFORM

DC-DC

DESIGN BASIS

Custom

LIMIT / NOTE

Custom

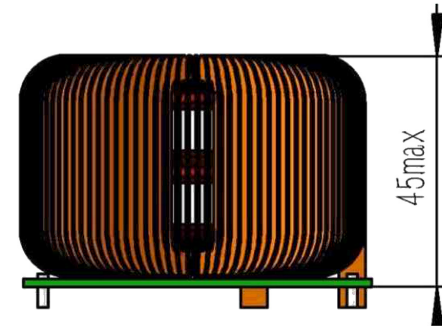
TYPICAL APPLICATIONS

- Solar & storage inverters
- UPS / battery systems
- Grid-tied power conversion

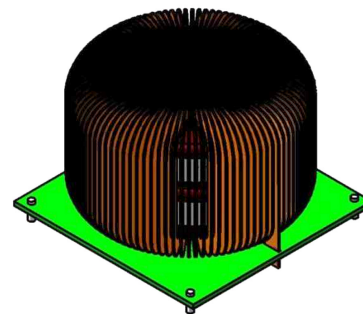
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ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

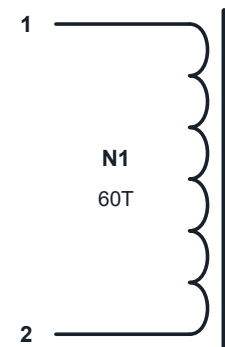
DIMENSIONS: mm



PRODUCT CONCEPT

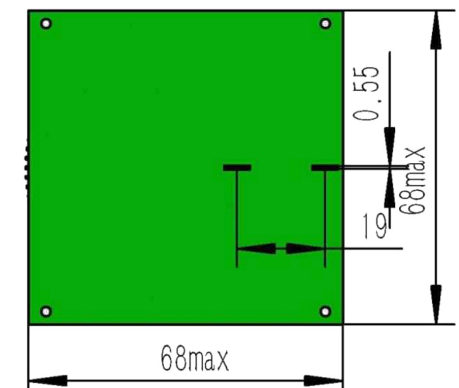


SCHEMATIC



PACKAGE / TERMINATION

mm



INDUCTOR

AWHPI-80U-100A-17 80 μ H / 100 A

MAIN SERIES AWHP / SUB-SERIES AWHPI-DC

SERIES / SUB-SERIES

AWHP / AWHPI-DC

COMPONENT

Power inductor

PLATFORM

DC-DC

DESIGN BASIS

Custom

LIMIT / NOTE

Custom

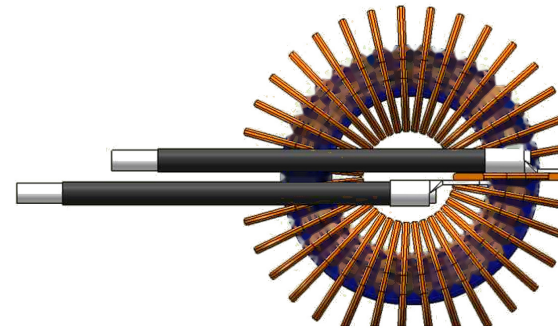
TYPICAL APPLICATIONS

- Solar & storage inverters
- UPS / battery systems
- Grid-tied power conversion

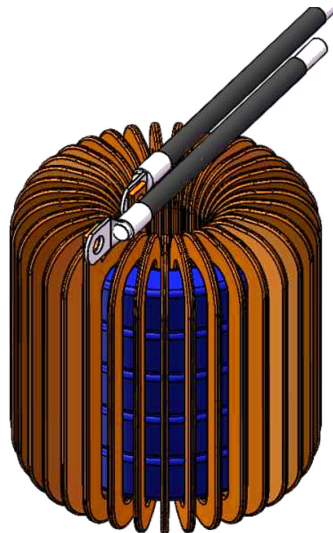
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

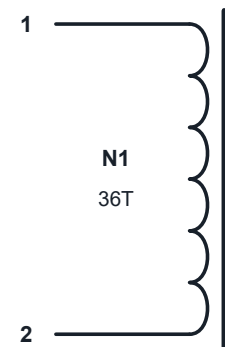
DIMENSIONS: mm



PRODUCT CONCEPT

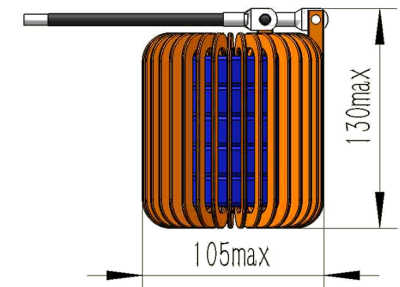


SCHEMATIC



PACKAGE / TERMINATION

mm



INDUCTOR

AWHPI-620U-060A-18

620 μ H / 60 A

MAIN SERIES AWHP / SUB-SERIES AWHPI-DC

SERIES / SUB-SERIES

AWHP / AWHPI-DC

COMPONENT

Power inductor

PLATFORM

DC-DC

DESIGN BASIS

Custom

LIMIT / NOTE

Custom

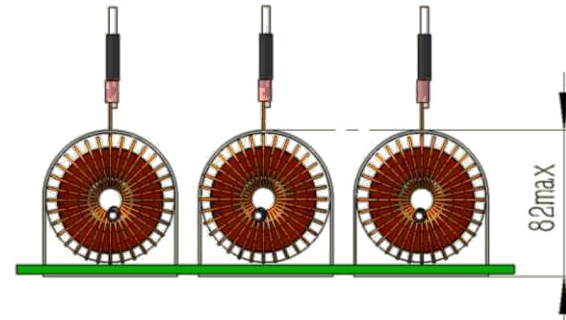
TYPICAL APPLICATIONS

- Solar & storage inverters
- UPS / battery systems
- Grid-tied power conversion

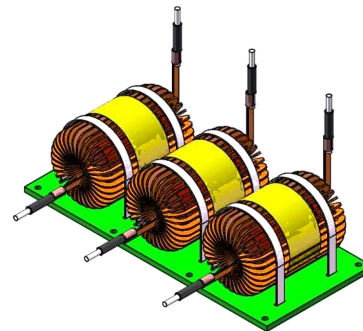
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

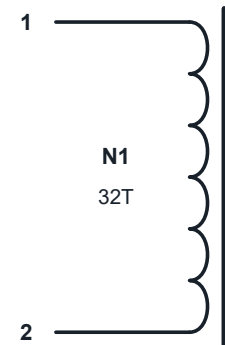
DIMENSIONS: mm



PRODUCT CONCEPT

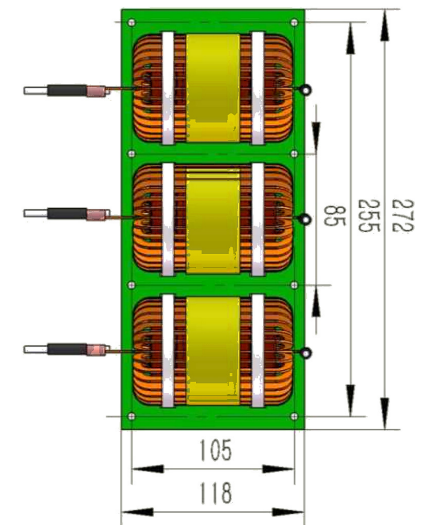


SCHEMATIC



PACKAGE / TERMINATION

mm



INDUCTOR

AWHPI-400U-060A-19

400 μ H / 60 A

MAIN SERIES AWHP / SUB-SERIES AWHPI-DC

SERIES / SUB-SERIES

AWHP / AWHPI-DC

COMPONENT

Power inductor

PLATFORM

DC-DC

DESIGN BASIS

Custom

LIMIT / NOTE

Custom

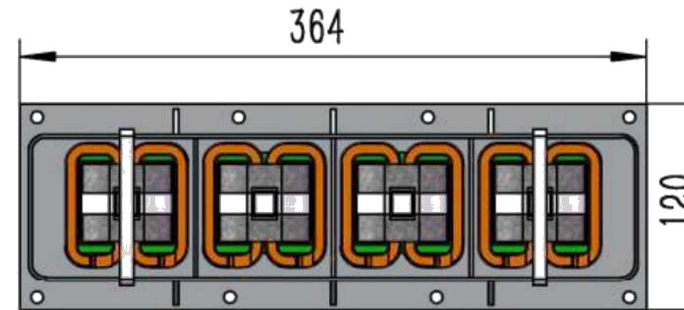
TYPICAL APPLICATIONS

- EV on-board chargers
- HV-LV DC-DC converters
- Battery power distribution

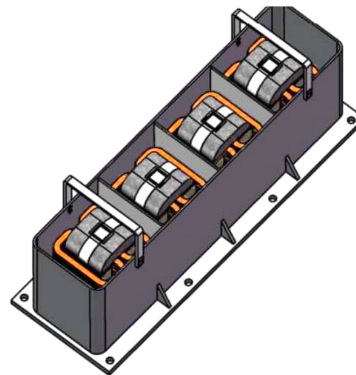
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

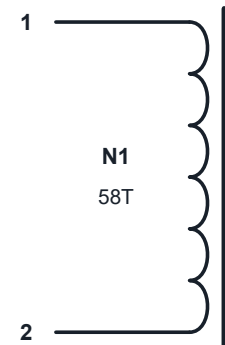
DIMENSIONS: mm



PRODUCT CONCEPT

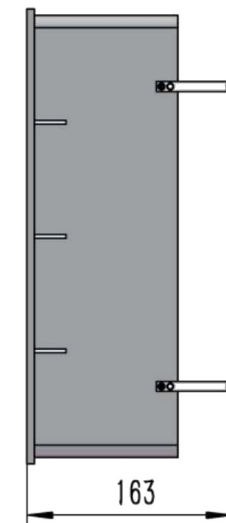


SCHEMATIC



PACKAGE / TERMINATION

mm



INDUCTOR

AWHPI-400U-060A-20

400 μ H / 60 A

MAIN SERIES AWHP / SUB-SERIES AWHPI-DC

SERIES / SUB-SERIES

AWHP / AWHPI-DC

COMPONENT

Power inductor

PLATFORM

DC-DC

DESIGN BASIS

Custom

LIMIT / NOTE

Custom

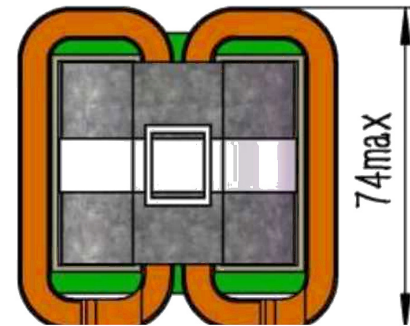
TYPICAL APPLICATIONS

- Solar & storage inverters
- UPS / battery systems
- Grid-tied power conversion

Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

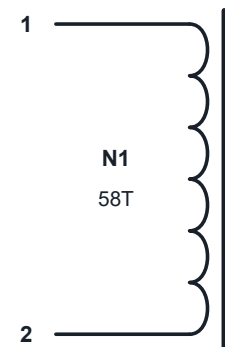
DIMENSIONS: mm



PRODUCT CONCEPT

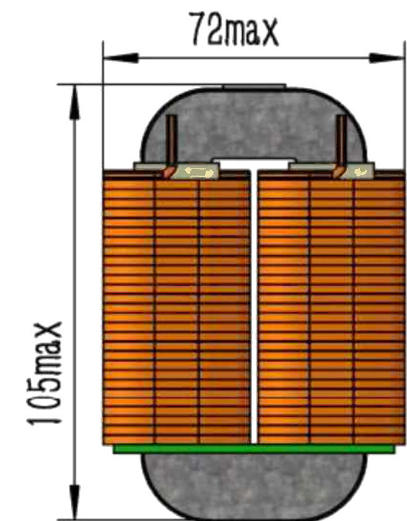


SCHEMATIC



PACKAGE / TERMINATION

mm



INDUCTOR

AWHPI-100U-025A-21

100 μ H / 25 A

MAIN SERIES AWHP / SUB-SERIES AWHPI-DC

SERIES / SUB-SERIES

AWHP / AWHPI-DC

COMPONENT

Power inductor

PLATFORM

DC-DC

DESIGN BASIS

Custom

LIMIT / NOTE

Custom

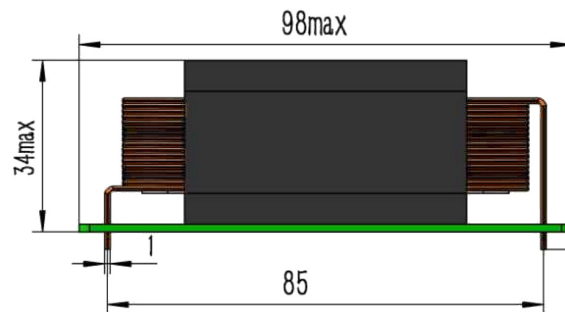
TYPICAL APPLICATIONS

- Solar & storage inverters
- UPS / battery systems
- Grid-tied power conversion

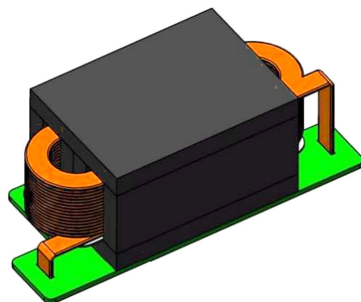
Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

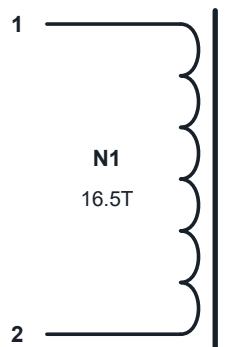
DIMENSIONS: mm



PRODUCT CONCEPT



SCHEMATIC



PACKAGE / TERMINATION

mm



INDUCTOR

AWHPI-100U-250A-22

100 μ H / 250 A

MAIN SERIES AWHP / SUB-SERIES AWHPI-DC

SERIES / SUB-SERIES

AWHP / AWHPI-DC

COMPONENT

Power inductor

PLATFORM

DC-DC

DESIGN BASIS

Custom

LIMIT / NOTE

Custom

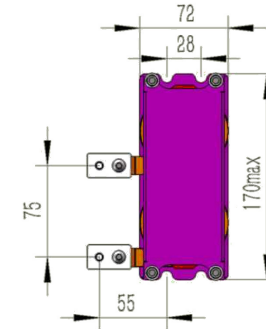
TYPICAL APPLICATIONS

- EV on-board chargers
- HV-LV DC-DC converters
- Battery power distribution

Reference design; final values require project validation.
ALL DIMENSIONS: mm, unless otherwise specified.

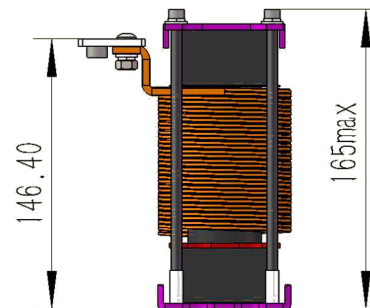
MECHANICAL REFERENCE

DIMENSIONS: mm



SIDE VIEW A

mm

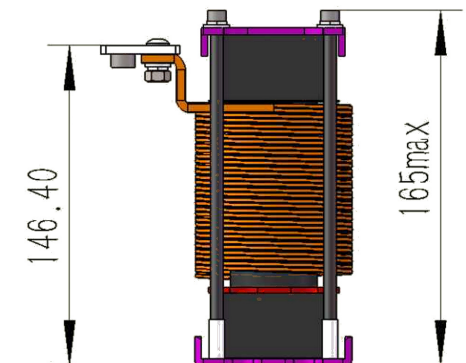


SCHEMATIC



SIDE VIEW B

mm



COMMON-MODE CHOKE

High-current filtering for renewable-energy and power-conversion systems.

AWHP PORTFOLIO / SUB-SERIES

AWCDMC-HC HIGH-CURRENT COMMON-MODE CHOKE

1 REFERENCE DESIGN

COMMON MODE CHOKE

AWCDMC-100U-100A-H01

100 μ H / 100 A

MAIN SERIES AWHP / SUB-SERIES AWCDMC-HC

SERIES / SUB-SERIES

AWHP / AWCDMC-HC

COMPONENT

Common-mode choke

PLATFORM

DC-DC

DESIGN BASIS

Custom

LIMIT / NOTE

Custom

TYPICAL APPLICATIONS

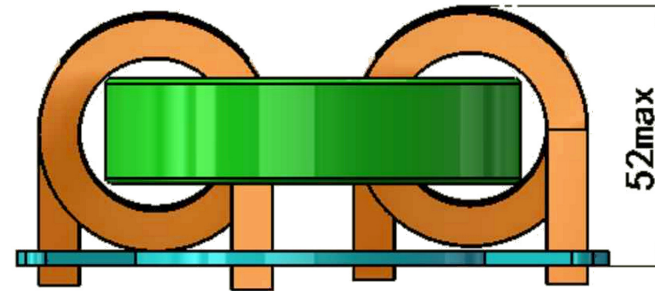
- Solar & storage inverters
- UPS / battery systems
- Grid-tied power conversion

Reference design; final values require project validation.

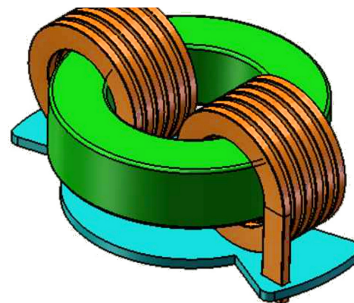
ALL DIMENSIONS: mm, unless otherwise specified.

MECHANICAL REFERENCE

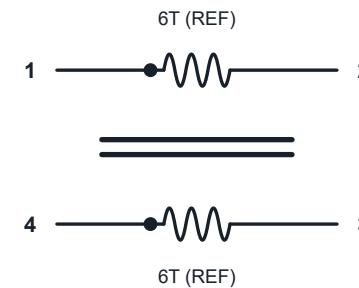
DIMENSIONS: mm



PRODUCT CONCEPT

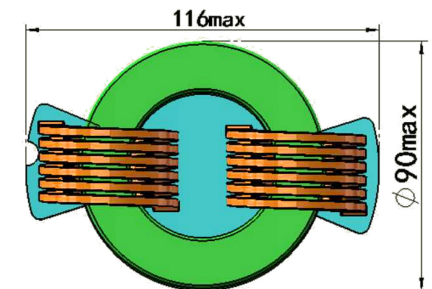


SCHEMATIC



PACKAGE / TERMINATION

mm





LET'S ENGINEER THE MAGNETICS AROUND YOUR CONVERTER.

Share the topology, power, frequency, thermal boundary and mechanical envelope.

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