

4

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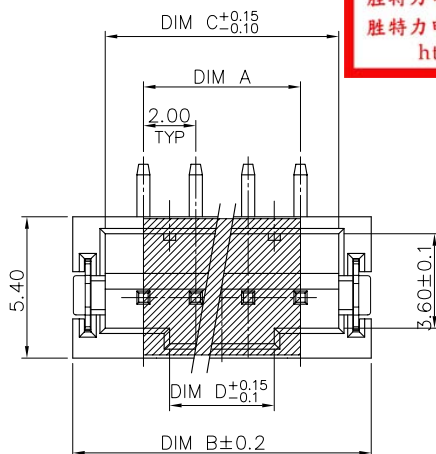
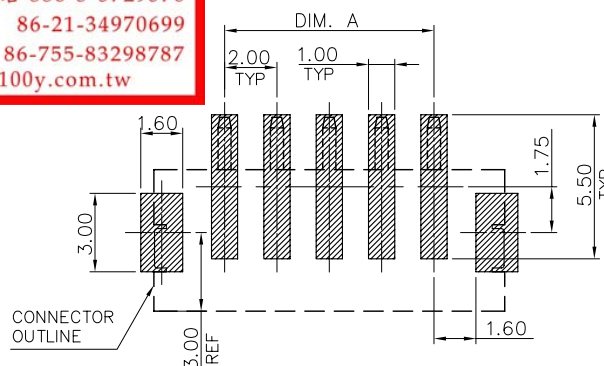
LOC
DW

DIST

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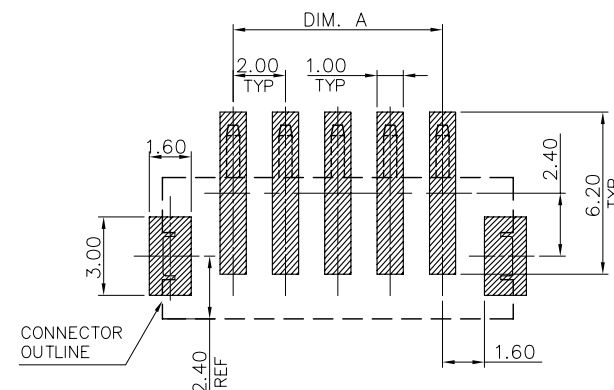
P	LTR	DESCRIPTION	DATE	DWN	APVD
B		REVISED (ECR-11-011782)	08JUN11	JL	WK

勝特力電材超市-龍山店 886-3-5773766
勝特力電材超市-光復店 886-3-5729570
勝特力电子(上海) 86-21-34970699
勝特力电子(深圳) 86-755-83298787
<http://www.100y.com.tw>



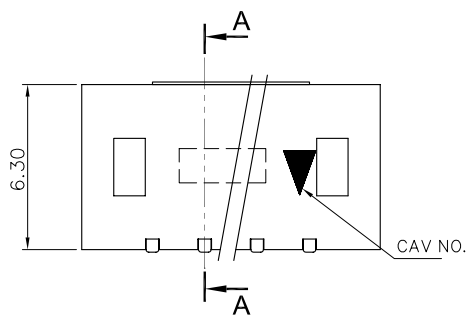
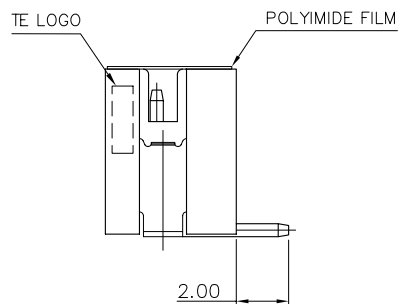
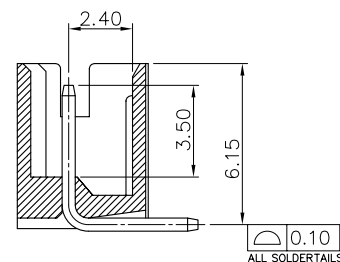
RECOMMENDED PCB LAYOUT

TOLERANCE: ±0.05



RECOMMENDED PCB LAYOUT

TOLERANCE: ±0.05



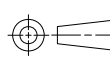
SECTION A-A

0.10
ALL SOLDER TAILS

NOTE:

- MATERIAL :
HOUSING : PA9T, UL 94V-0, COLOR: NATURAL.
CONTACT : BRASS, THICKNESS=0.50mm.
SOLDER PEG : BRASS
- FINISH:
CONTACT : $\Delta 2\mu\text{m}$ [80 μ] MIN. MATTE TIN PLATED OVER
1.27 μm [50 μ] MIN. NICKEL UNDERPLATED ALL OVER.
 Δ GOLD FLASH OVER 1.27 μm [50 μ] MIN. NICKEL UNDERPLATED ALL OVER.
PEG : 2 μm [80 μ] MATTE TIN, 1.27 μm [50 μ] NICEL.
- REFLOW SOLDER CAPABLE TO 260°C PER TE CONNECTIVITY SPEC 109-201, CONDITION B.

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DIMENSIONS:
MMMATERIAL
SEE NOTETOLERANCES UNLESS
OTHERWISE SPECIFIED:

0 PLC	±
1 PLC	± 0.25
2 PLC	± 0.15
3 PLC	± 0.05
4 PLC	±
ANGLES	± 3°

FINISH
SEE NOTE

DWN S. CHIEN 06JAN2009

CHK S. CHIEN 06JAN2009

APVD W. KODAMA 06JAN2009

PRODUCT SPEC

108-57100

QUALIFICATION TEST REPORT

501-57058

WEIGHT - GRAMS

CUSTOMER DRAWING

THICKNESS DIM D DIM C DIM B DIM A POS PART NUMBER



TE Connectivity

HPI CONN., 2.0MM PITCH,
V/T, SMT TYPE

SIZE CAGE CODE DRAWING NO RESTRICTED TO

A300779 C=1775470

SCALE SHEET 1 OF 4 REV B

4

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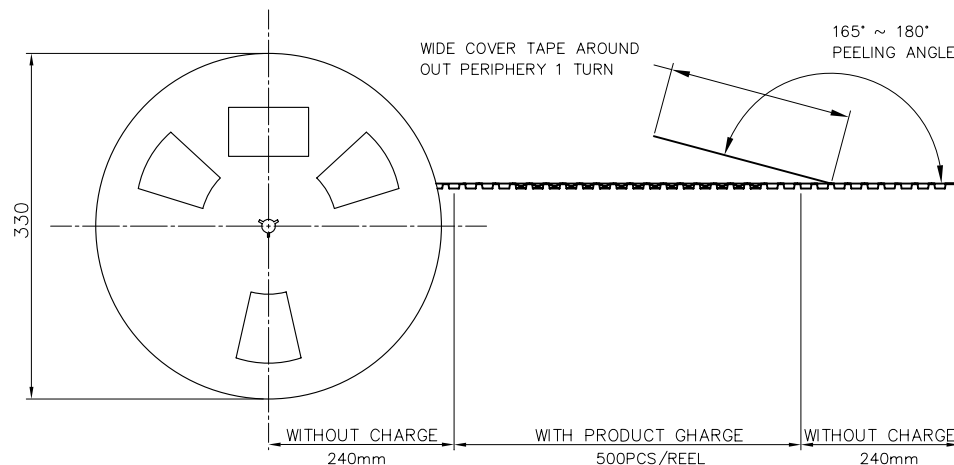
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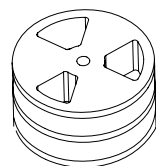
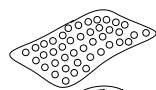
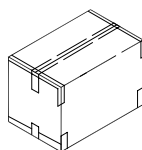
DWN

APVD

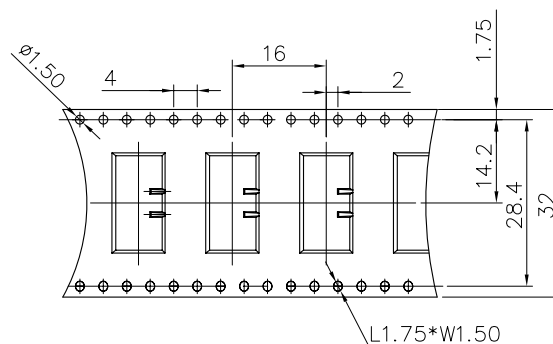
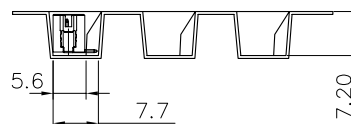
SEE SHEET 1.



FOR 2~6PIN

WITHOUT CHARGE
240mmWITH PRODUCT CHARGE
500PCS/REELWITHOUT CHARGE
240mm

341mm(L)*341mm(W)*221mm(H)



2,500	500	6P	2-1775470-6
2,500	500	5P	2-1775470-5
2,500	500	4P	2-1775470-4
2,500	500	3P	2-1775470-3
2,500	500	2P	2-1775470-2
2,500	500	6P	1775470-6
2,500	500	5P	1775470-5
2,500	500	4P	1775470-4
2,500	500	3P	1775470-3
2,500	500	2P	1775470-2
PCS/CARTON	PCS/REEL	POS	PART NUMBER

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DIMENSIONS:
MMTOLERANCES UNLESS
OTHERWISE SPECIFIED:

0 PLC	±
1 PLC	±
2 PLC	±
3 PLC	±
4 PLC	±
ANGLES	±

MATERIAL

FINISH

DWN

CHK

APVD

PRODUCT SPEC

APPLICATION SPEC

WEIGHT

CUSTOMER DRAWING



TE Connectivity

HPI CONN., 2.0MM PITCH,
V/T, SMT TYPE

NAME

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

SCALE

SHEET

REV

A300779

C=1775470

2 OF 4

B

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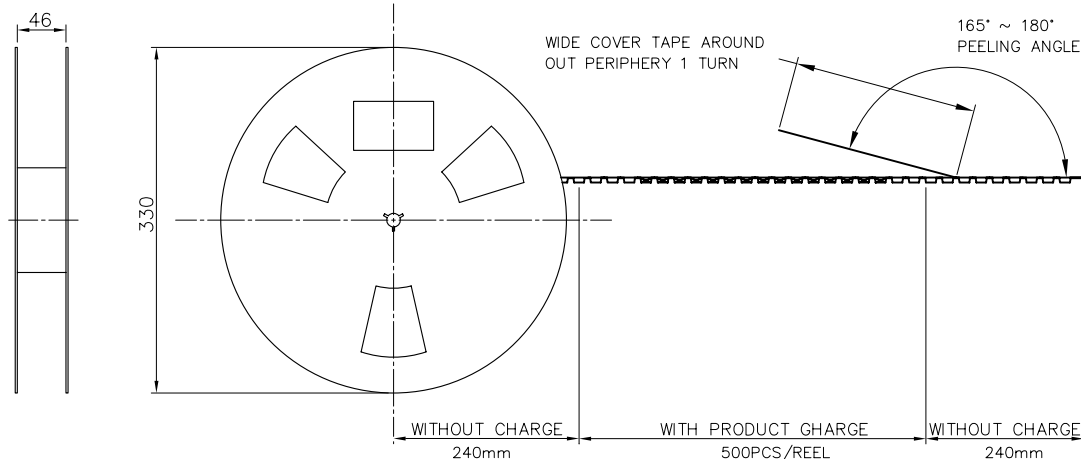
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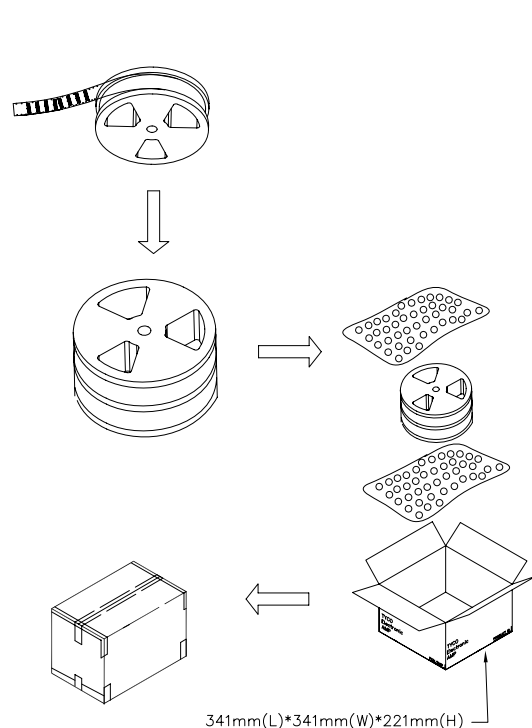
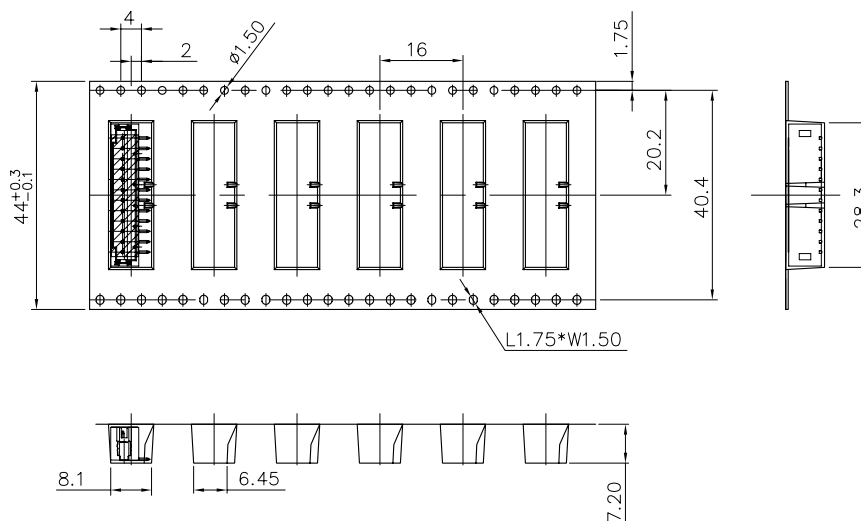
DWN

APVD

SEE SHEET 1.



FOR 7~12PIN



2,000	500	12P	3-1775470-2
2,000	500	11P	3-1775470-1
2,000	500	10P	3-1775470-0
2,000	500	9P	2-1775470-9
2,000	500	8P	2-1775470-8
2,000	500	7P	2-1775470-7
2,000	500	12P	1-1775470-2
2,000	500	11P	1-1775470-1
2,000	500	10P	1-1775470-0
2,000	500	9P	1775470-9
2,000	500	8P	1775470-8
2,000	500	7P	1775470-7
PCS/CARTON	PCS/REEL	POS	PART NUMBER

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DWN

CHK

APVD

PRODUCT SPEC

APPLICATION SPEC

WEIGHT

CUSTOMER DRAWING

DIMENSIONS:
MMTOLERANCES UNLESS
OTHERWISE SPECIFIED:

0 PLC ±

1 PLC ±

2 PLC ±

3 PLC ±

4 PLC ±

ANGLES ±

MATERIAL

FINISH



TE Connectivity

HPI CONN., 2.0MM PITCH,
V/T, SMT TYPE

NAME

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

A300779

C=1775470

SCALE

SHEET

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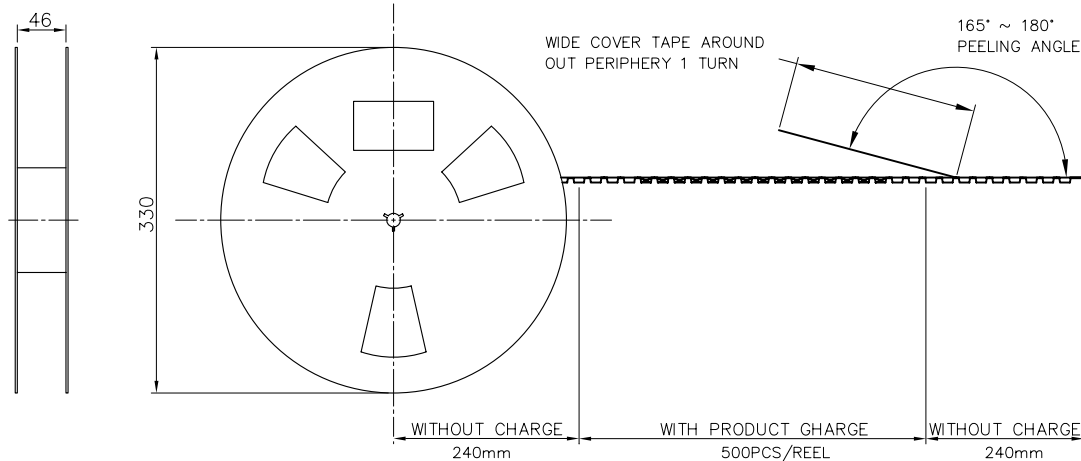
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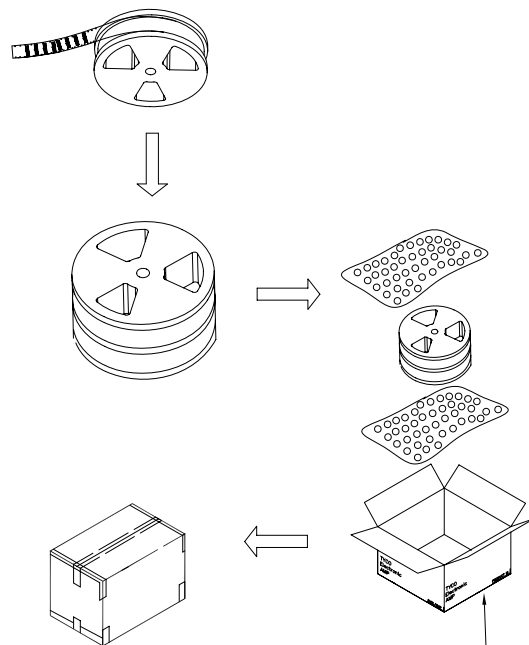
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APVD

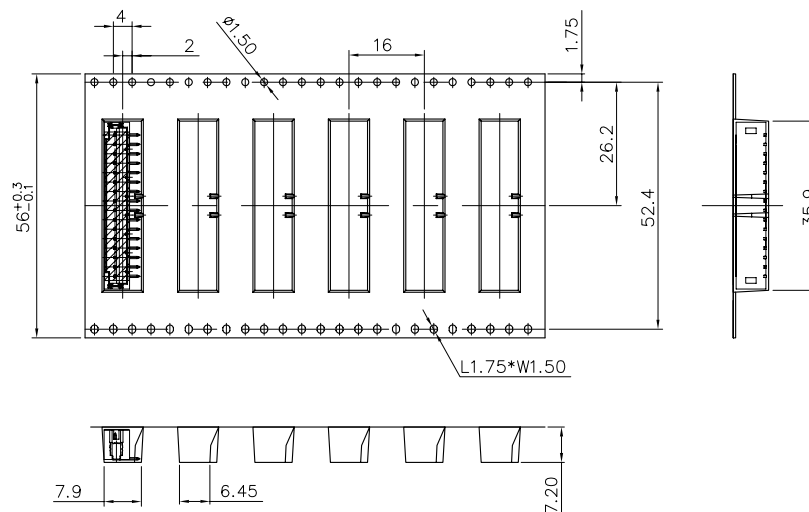
SEE SHEET 1.



FOR 13~16PIN



341mm(L)*341mm(W)*221mm(H)



1,500	500	16P	3-1775470-6
1,500	500	15P	3-1775470-5
1,500	500	14P	3-1775470-4
1,500	500	13P	3-1775470-3
1,500	500	16P	1-1775470-6
1,500	500	15P	1-1775470-5
1,500	500	14P	1-1775470-4
1,500	500	13P	1-1775470-3
PCS/CARTON	PCS/REEL	POS	PART NUMBER

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DWN

CHK

APVD

PRODUCT SPEC

APPLICATION SPEC

WEIGHT

CUSTOMER DRAWING

DIMENSIONS:
MMTOLERANCES UNLESS
OTHERWISE SPECIFIED:

0 PLC	±
1 PLC	±
2 PLC	±
3 PLC	±
4 PLC	±
ANGLES	±

MATERIAL

FINISH



TE Connectivity

HPI CONN., 2.0MM PITCH,
V/T, SMT TYPE

NAME

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

A300779

C=1775470

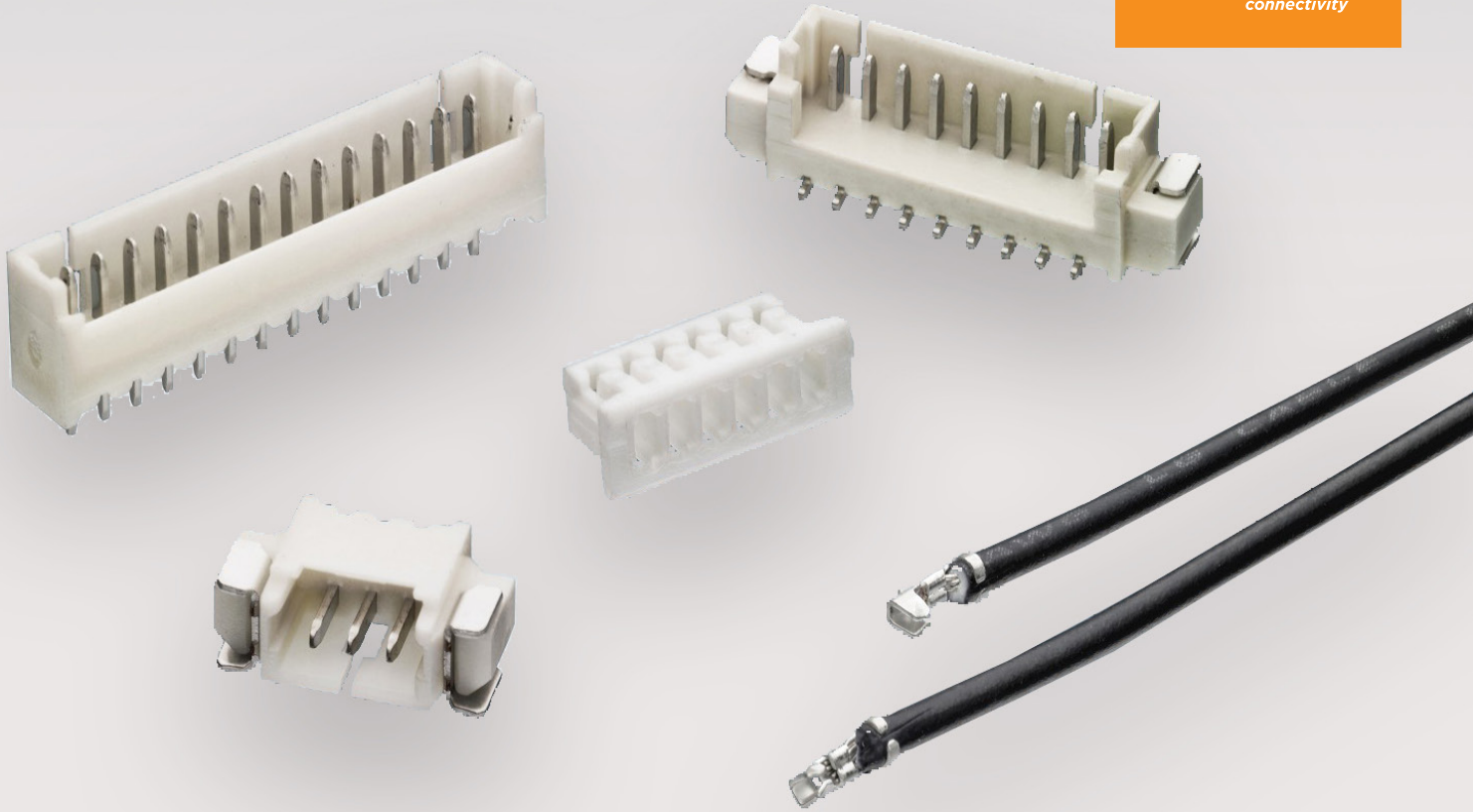
SCALE

SHEET

4 OF 4

REV

B



QUICK REFERENCE GUIDE

High Performance Interconnect (HPI) Connectors

TE Connectivity's (TE) wire-to-board High Performance Interconnect (HPI) connector system is available in 1.0mm, 1.25mm, 1.5mm, 2.0mm, and 2.5mm centerline pitch. This connector system offers vertical and horizontal (right angle) connector mounting for versatility, and the square-peg technology enables product compatibility with industry standard products. HPI products can be used anywhere a signal or low power needs to be routed through a device. If your application has more than one printed circuit board then HPI product is an option to connect the PCBs.

FEATURES

- 1.0mm – 2.5mm centerline
- Vertical and horizontal PCB mount
- Through hole (DIP) & surface mount termination (SMT)
- Polarized
- Partially and fully shrouded
- Square termination posts
- Latching and gold plating options available
- Reach up to 2A

BENEFITS

- Provides design flexibility
- Cost effective wire-to-board
- Ensures proper compatibility of both the header and the housing
- Prevents stubbing contacts
- Enables inter-changeability with industry standard designs

APPLICATIONS

- Business and retail equipment
- Consumer devices
- Industrial
- Automotive
- Medical
- Appliance

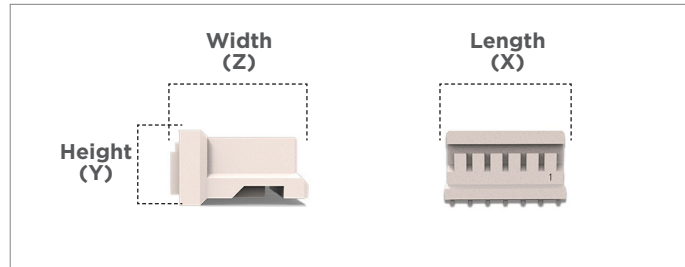
High Performance Interconnect (HPI) Connectors

Quick Reference Guide

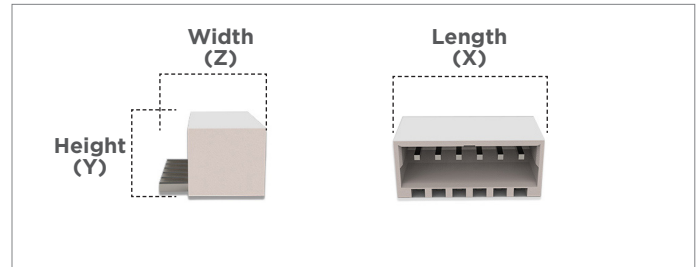
Components: How to Read Product Selector Dimensions

Understanding HPI connector's PCB footprint will help you quickly determine if the HPI product line is the correct wire-to-board solution to meet your design objectives. The part selector matrix helps you understand the PCB footprint. Note that only PCB headers have a PCB footprint, but the mating housing will also consume valuable space within a device, which is why we highlight both products' dimensions.

HOUSING DIMENSIONS



HEADER DIMENSIONS



The length (X) dimension is different for each position size, however, both the height (Y) and width (Z) are constant dimensions for each base PN. All the length dimensions are listed in the product selector table for a two position connector. The length of the connector is simply calculated. For example, If you decide that PN 1734595 is the connector that you need, then a two position connector's length is 4.3mm. However, if you need a three position connector, the length of the connector is 5.3mm, which is 4.3mm + 1.0mm. Each additional position size requires an increase of 1.0mm. For example if you need a nine position connector please refer to the following equations. (Please refer to customer drawings for tolerances.)

- 2 position length = 4.3mm
- 9 positions - 2 positions = 7 positions
- 7 positions * 1.0mm per pin increase = 7.0mm
- 9 position length = 4.3mm + 7.0mm = 11.3mm

Reading Dimensions in the Product Matrix

PIN	Product Type	AWG	PCB Termination Style	Mount Angle	Position Range	Length (X)	Height (Y)	Width (Z)
1734595	Header	28-32	SMT	Vertical	2 to 15	4.3 + 1.0 Per Pin Increase	4.30	5.10

Connector Dimensions (mm)

Product Overview, Ratings, and Specifications

In order to better understand the product capabilities and limitations, it is advised that you refer to TE's specifications. The following table is intended to be used with the product selector matrix. The product selector matrix has a column on the far right that indicates Spec. Group, which aligns with the first column on the left in the graph below.

Spec Group	Centerline (mm)	PCB Termination Style	Product Specification	Application Specification	Qualification Reports	Rated Current Amps (Max.)	Rated Voltage (Max.)	Rated Voltage (Volts)	Operating Temp.
A	1.00	SMT	108-57264	114-57020	501-57283	1.00	50	AC/DC	-55 to 105°C
B			108-115169	114-115031	501-115186	1.00	50	AC	-40 to 85°C
C	1.25	SMT & DIP	108-57225	114-57016	501-57229	1.00	100	AC	-40 to 85°C
D			108-57499	114-57016	501-57573	1.00	125	AC/DC	-25 to 85°C
E			108-57273	114-57016	501-57299	1.00	100	AC	-40 to 85°C
F	1.50	SMT	108-57631	114-57018	501-57736	3.00	250	AC	-55 to 105°C
G	2.00	SMT & DIP	108-51087	114-57011	501-51084	3.00	250	AC/DC	-25 to 85°C
H			108-57100	114-57011	501-57058	3.00	250	AC/DC	-25 to 85°C
I			108-57499	114-57011	501-57573	1.00	125	AC/DC	-25 to 85°C
J			108-57217	114-57013	501-57218	3.00	100	DC	-25 to 85°C
K	2.50	SMT & DIP	108-57099	114-57004	501-57057	3.00	250	AC/DC	-25 to 85°C
L			108-57175	114-57012	501-57195	3.00	250	AC/DC	-40 to 105°C

Connector Dimensions (mm)

High Performance Interconnect (HPI) Connectors

Quick Reference Guide

Product Matrix: How to select a HPI connector part number

The charts on this page highlight the relationship between the key product features, including AWG, PCB termination style, mount angle, position range, and dimensions to the product base number. Once you determine the correct base number, please refer to TE's website.

1.00mm HPI Connector

Base PN	Product Type	AWG	PCB Termination Style	Mount Angle	Position Range	Length (X)	Height (Y)	Width (Z)	Mating Base PN	Product Spec. Group
1734597-1	Contact	28 - 32	N/A	N/A	N/A	N/A	N/A	N/A	1470364	A
1470364	Housing	28 - 32	N/A	N/A	2 to 15	5.0 + 1.0 Per Pin Increase	2.80	5.00	1734595; 1734709	A
1734595	Header	28 - 32	SMT	Vertical	2 to 15	4.3 + 1.0 Per Pin Increase	4.30	5.10	1470364	A
1734709	Header	28 - 32	SMT	Right Angle	2 to 15	4.3 + 1.0 Per Pin Increase	2.90	4.95	1470364	A
2367199	Contact (Locking)	28 - 32	N/A	N/A	N/A	N/A	N/A	N/A	2367198	B
2367198	Housing (Locking)	28 - 32	N/A	N/A	3 to 15	6.0 + 1.0 Per Pin Increase	2.8	5	2367196; 2367197	B
2367196	Header (Locking)	28 - 32	SMT	Right Angle	3 to 15	5.0 + 1.0 Per Pin Increase	2.9	4.3	2367198	B
2367197	Header (Locking)	28 - 32	SMT	Vertical	3 to 15	5.0 + 1.0 Per Pin Increase	4.3	2.9	2367198	B

Connector Dimensions (mm)

The hand tool for terminal PN 1734597-1 is 2119536-1.

1.25mm HPI Connector

Base PN	Product Type	AWG	PCB Termination Style	Mount Angle	Position Range	Length (X)	Height (Y)	Width (Z)	Mating Base PN	Product Spec. Group
1734193-1	Contact	28 - 32	N/A	N/A	N/A	N/A	N/A	N/A	440146-x	B
440146	Housing	28 - 32	N/A	N/A	2 to 15	4.25 + 1.25 Per Pin Increase	3.15	3.95	1734260-x; 1734261-x; 1734829-x; 1734598-x	B
1734260	Header	28 - 32	SMT	Vertical	2 to 15	7.79 + 1.25 Per Pin Increase	4.75	4.25	440146-x	C
1734261	Header	28 - 32	SMT	Right Angle	2 to 15	7.79 + 1.25 Per Pin Increase	3.45	4.70	440146-x	D
1734829	Header	28 - 32	DIP	Right Angle	2 to 15	4.25 + 1.25 Per Pin Increase	3.20	4.70	440146-x	C
1734598	Header	28 - 32	DIP	Vertical	2 to 15	4.25 + 1.25 Per Pin Increase	4.70	3.20	440146-x	D

Connector Dimensions (mm)

The hand tool for terminal PN 1734193-1 is 2119537-1.

1.50mm HPI Connector

Base PN	Product Type	AWG	PCB Termination Style	Mount Angle	Position Range	Length (X)	Height (Y)	Width (Z)	Mating Base PN	Product Spec. Group
1775442-1	Contact	24 - 30	N/A	N/A	N/A	N/A	N/A	N/A	1775441-x	E
1775441	Housing	24 - 30	N/A	N/A	2 to 15	4.25 + 1.50 Per Pin Increase	2.70	6.15	1775443-x; 1775444-x	E
1775443	Header	24 - 30	SMT	Vertical	2 to 15	4.50 + 1.50 Per Pin Increase	5.00	6.00	1775441-x	E

Connector Dimensions (mm)

The hand tool for terminal PN 1775442-1 is 2119538-1.

High Performance Interconnect (HPI) Connectors

Quick Reference Guide

2.00mm HPI Connector

Base PN	Product Type	AWG	PCB Termination Style	Mount Angle	Position Range	Length (X)	Height (Y)	Width (Z)	Mating Base PN	Product Spec. Group
1735801-1	Contact	24 - 30	N/A	N/A	N/A	N/A	N/A	N/A	440129-x; 1735447-x	F
440129	Housing	24 - 30	N/A	N/A	2 to 16	4.7 + 2.00 Per Pin Increase	4.50	6.90	440054-x; 440055-x; 1775470-x; 1775469-x;	G
440054	Header	24 - 30	DIP	Vertical	2 to 16	6.0 + 2.00 Per Pin Increase	6.05	4.70	440129-x	G
440055	Header	24 - 30	DIP	Right Angle	2 to 16	6.0 + 2.00 Per Pin Increase	4.95	7.70	440129-x	G
1775470	Header	24 - 30	SMT	Vertical	2 to 16	7.4 + 2.00 Per Pin Increase	6.15	5.40	440129-x	G
1775469	Header	24 - 30	SMT	Right Angle	2 to 16	7.4 + 2.00 Per Pin Increase	5.50	7.60	440129-x	G
1734827	Header	24 - 30	SMT	Right Angle	2 to 15	8.0 + 2.00 Per Pin Increase	5.60	6.00	440129-x	H

1735447	Housing (Locking)	24 - 30	N/A	N/A	3 to 16	7.92 + 2.00 Per Pin Increase	6.55	9.40	1735446-x	F
1735446	Header (Locking)	24 - 30	DIP	Vertical	3 to 16	8.0 + 2.00 Per Pin Increase	6.07	5.20	1735447-x	F

1470106-1	Contact	22 - 28	N/A	N/A	N/A	N/A	N/A	N/A	1470107-x	I
1470107*	Housing	22 - 28	N/A	N/A	6 to 32	8.0 + 2.00 Per Pin Increase	5.10	7.40	1470109-x; 1470108-x	I
1470109*	Header	22 - 28	DIP	Vertical	6 to 32	8.0 + 2.00 Per Pin Increase	6.50	5.00	1470107-x	I
1470108*	Header	22 - 28	DIP	Right Angle	6 to 32	8.0 + 2.00 Per Pin Increase	5.00	9.50	1470107-x	I

* = Dual Row Connectors
Connector Dimensions (mm)

The hand tool for terminal PNs 440132-1 and 1735801-1 is 2119539-1.

2.50mm HPI Connector

Base PN	Product Type	AWG	PCB Termination Style	Mount Angle	Position Range	Length (X)	Height (Y)	Width (Z)	Mating Base PN	Product Spec. Group
440134-1	Contact	22 - 28	N/A	N/A	N/A	N/A	N/A	N/A	440133-x	J
440133	Housing	22 - 28	N/A	N/A	2 to 15	7.1 + 2.50 Per Pin Increase	4.20	7.15	440052-x; 440053-x; 1775317-x; 1775316-x	J
440052	Header	22 - 28	DIP	Vertical	2 to 15	7.5 + 2.50 Per Pin Increase	6.00	3.80	440133-x	J
440053	Header	22 - 28	DIP	Right Angle	2 to 14	7.5 + 2.50 Per Pin Increase	4.20	8.20	440133-x	J
1775317	Header	22 - 28	SMT	Vertical	2 to 15	9.5 + 2.50 Per Pin Increase	6.40	4.80	440133-x	J
1775316	Header	22 - 28	SMT	Right Angle		8.8 + 2.50 Per Pin Increase	4.80	7.70	440133-x	J

1470223-1	Contact	22 - 28	N/A	N/A	N/A	N/A	N/A	N/A	1470222-x	K
1470222	Housing	22 - 28	N/A	N/A	2 to 15	7.4 + 2.50 Per Pin Increase	4.70	8.00	1470224-x	K
1470224	Header	22 - 28	DIP	Vertical	2 to 15	7.5 + 2.50 Per Pin Increase	5.90	4.90	1470222-x	K

Connector Dimensions (mm)

There are no hand tools available for these terminals.

Applications



Business & Retail Equipment

- Copiers
- Printers
- Scanners
- Fax Machines
- Projectors
- Vending Machines
- ATMs



Industrial Industry

- Appliances
- Industrial Controls
- GPS
- Thermostats
- HVAC
- Lighting



Consumer Devices

- PCs
- Ultrabook Devices
- Game Consoles
- Set Top Boxes
- Stereo Equipment

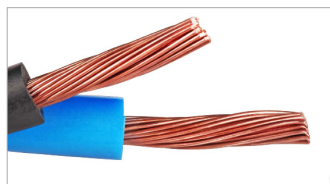


Medical Industry

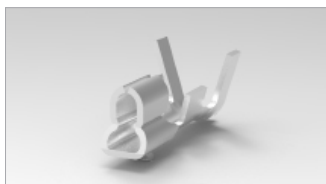
- Medical Monitors
- Imaging Systems
- Portable Stations
- Treatment Equipment

Components: A Complete Solution

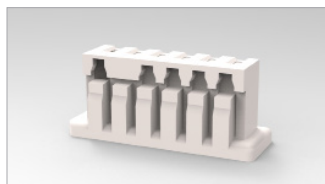
A typical crimp type wire-to-board interconnect solution requires four components. First a raw discrete wire, which is stripped, and then a crimp type contact is crimped onto the wire. The contact and wire are then inserted into an unloaded receptacle housing, which is mated with a header that is terminated to a PCB either through hole (DIP) or SMT style.



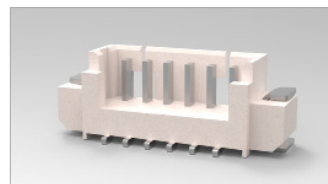
Raw Discrete Wire (Stripped)



Crimp Contact



Receptacle Housing



PCB Header

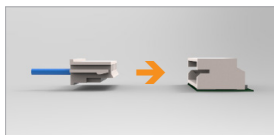
HPI Attributes

PCB MOUNT ORIENTATION

Depends on the direction that the housing mates with the PCB header.

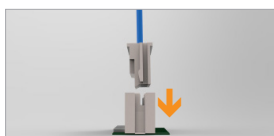
Right Angle

The housing is mated parallel to the PCB.



Vertical

The housing is mated perpendicular to the PCB.

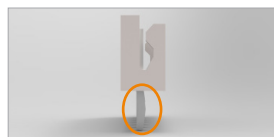


TERMINATION METHOD TO PCB

Depends on how the PCB header is applied to a PCB.

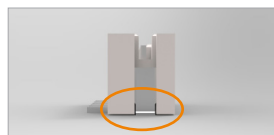
Through Hole (DIP)

Attached to PCB by inserting PCB tines into the pre-drilled holes in the PCB and then soldered on the bottom side of the board.



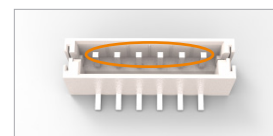
Surface Mount (SMT)

Attached to the PCB by soldering process where PCB tines are soldered to the top of a PCB.



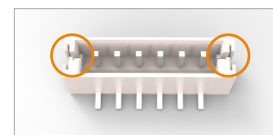
SQUARE TERMINATION POSTS

This design is an industry standard that allows TE's products to be interchanged with other industry standard products.



Polarized

Ensures that PCB headers and cable side receptacle housings properly mate.



Frequently Asked Questions

The charts on this page highlight the relationship between the key product features, including AWG, PCB termination style, mount angle, position range, and dimensions to the product base number. Once you determine the correct base number, please refer to TE's website.

Question 1

What gauge wire (AWG) will you be using?

Answer 1

TE's HPI product accepts 22-32 AWG discrete wire. Remember that the higher the AWG measurement number, the smaller the discrete wire. For example, 32 AWG is smaller than 22 AWG will likely have less current carrying capacity.

Question 2

Are you transferring signal or lower power throughout your device?

Answer 2

HPI products are simple interconnect solutions that can be used to transfer signal or lower power in multiple applications across many industries.

Question 3

Does your application have a fan, motor, switch, display, light or any other simple device?

Answer 3

HPI product may be the ideal solution to control these type of ancillary items.

Question 4

Does your application require a locking feature to strengthen the mating connection between the plug assembly and receptacle?

Answer 4

If your application requires a secure mating retention feature, TE's 1.0mm and 2.0mm HPI product line offers an external locking feature to improve the reliability of the interconnect system.

Question 5

What are the technical requirements of your application?

Answer 5

It is imperative that you ask your customer the current and voltage requirements of their application. Current, which is expressed in amps, is usually the driving factor when selecting a small pitch wire-to-board product. Other information that you should consider include operating temperature, PCB real estate, profile height limitations, material restrictions, etc.

Question 6

What tooling is available to apply TE's wire-to-board products?

Answer 6

TE's tooling divisions offers a wide range of hand tools, semi-automatic, and automatic tools. Please visit <https://www.te.com/usa-en/products/application-tooling.html> to determine the application tooling that meets your needs.

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