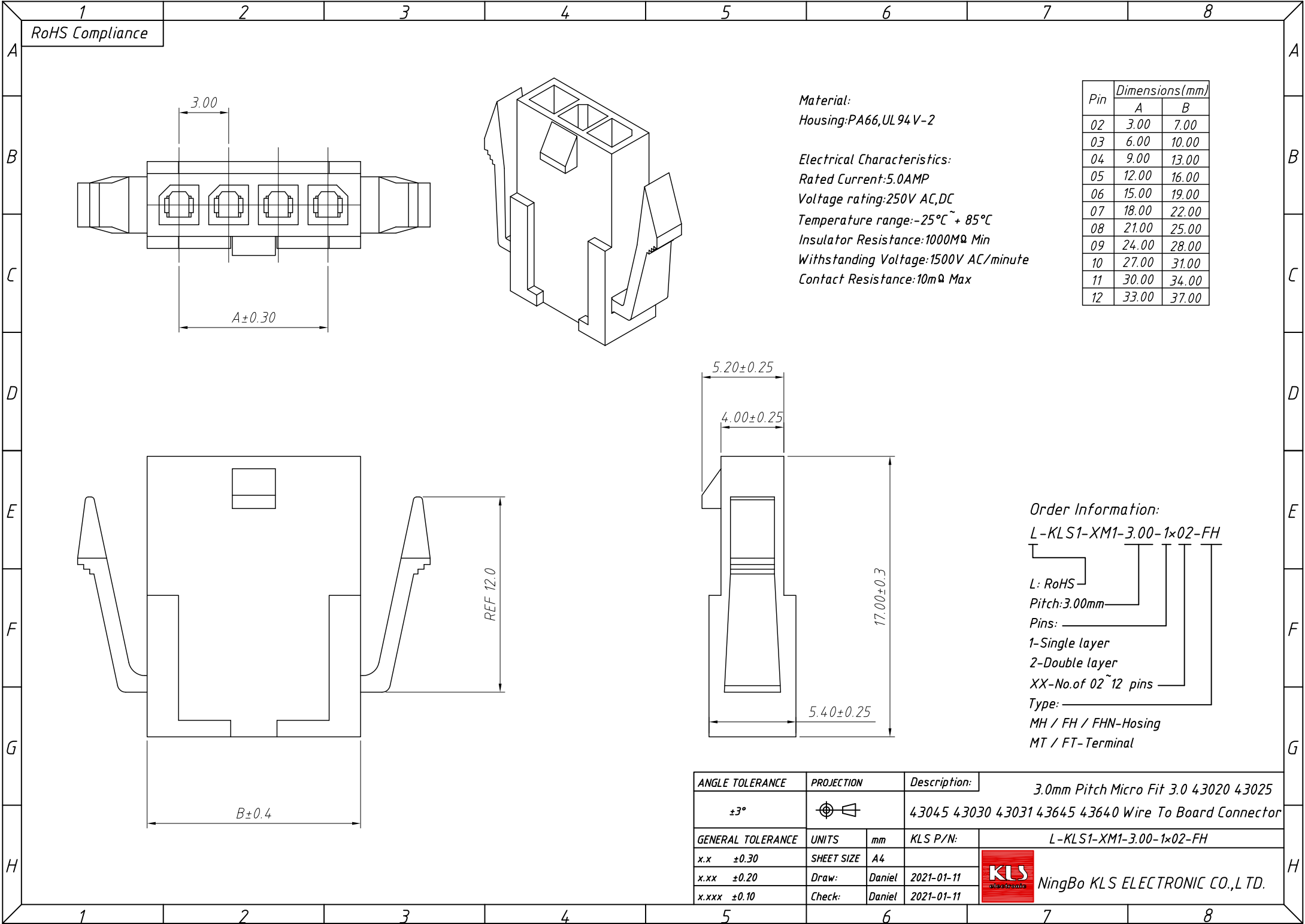




B

B

C

C

D

D

E

E

F

F

G

G

H

H

Material:
Housing:PA66,UL 94 V-2

Electrical Characteristics:
Rated Current:5.0AMP
Voltage rating:250V AC,DC
Temperature range:-25℃ ~ + 85℃
Insulator Resistance:1000MΩ Min
Withstanding Voltage:1500V AC/minute
Contact Resistance:10mΩ Max

Pin	Dimensions(mm)	
	A	B
02	3.00	7.00
03	6.00	10.00
04	9.00	13.00
05	12.00	16.00
06	15.00	19.00
07	18.00	22.00
08	21.00	25.00
09	24.00	28.00
10	27.00	31.00
11	30.00	34.00
12	33.00	37.00

Order Information:
L-KLS1-XM1-3.00-1×02-FH

L: RoHS
Pitch:3.00mm
Pins:
1-Single layer
2-Double layer
XX-No.of 02~12 pins
Type:
MH / FH / FHN-Hosing
MT / FT-Terminal

ANGLE TOLERANCE	PROJECTION	Description:	
±3°		3.0mm Pitch Micro Fit 3.0 43020 43025 43045 43030 43031 43645 43640 Wire To Board Connector	
GENERAL TOLERANCE	UNITS	mm	KLS P/N:
x.x ±0.30	SHEET SIZE	A4	L-KLS1-XM1-3.00-1×02-FH
x.xx ±0.20	Draw:	Daniel	2021-01-11
x.xxx ±0.10	Check:	Daniel	2021-01-11

NingBo KLS ELECTRONIC CO.,L TD.

1
RoHS Compliance

2

3

4

5

6

7

8

A

B

C

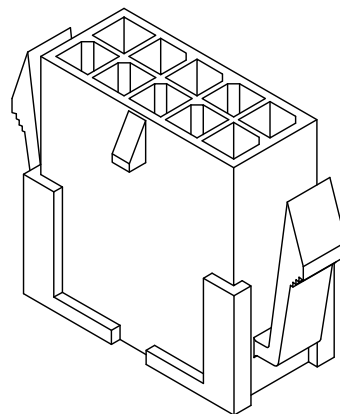
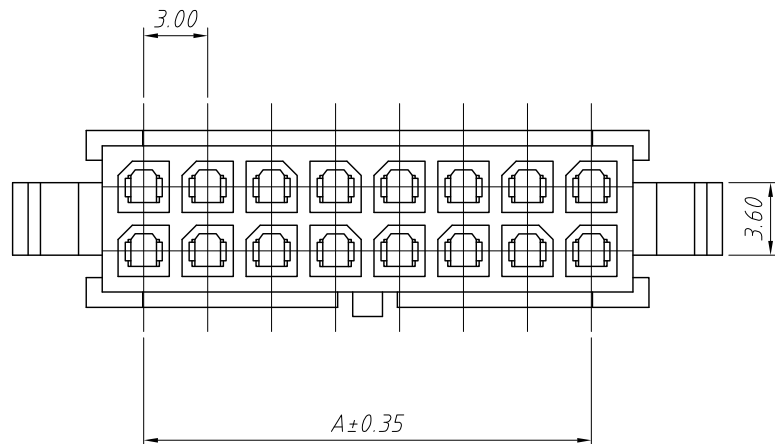
D

E

F

G

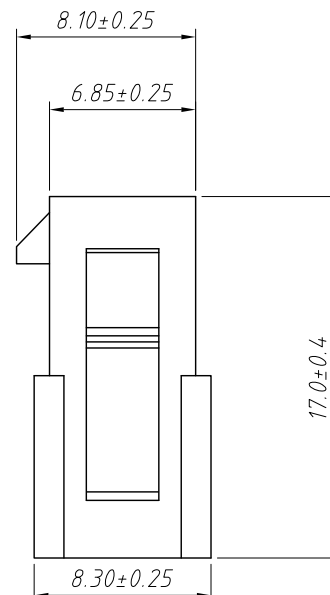
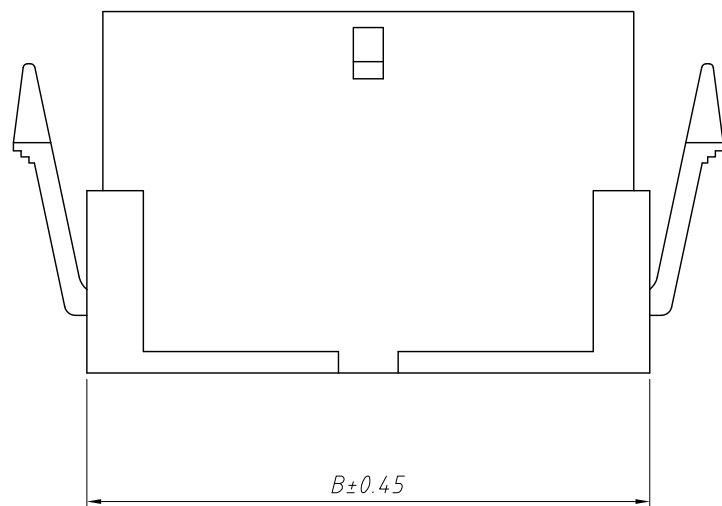
H



Material:
Housing: PA66, UL 94 V-2

Electrical Characteristics:
Rated Current: 5.0 AMP
Voltage rating: 250V AC, DC
Temperature range: $-25^{\circ}\text{C} \sim +85^{\circ}\text{C}$
Insulator Resistance: $1000\text{M}\Omega$ Min
Withstanding Voltage: 1500V AC/minute
Contact Resistance: $10\text{m}\Omega$ Max

Pin	Dimensions(mm)	
	A	B
2×01	---	5.35
2×02	3.00	8.35
2×03	6.00	11.35
2×04	9.00	14.35
2×05	12.00	17.35
2×06	15.00	20.35
2×07	18.00	23.35
2×08	21.00	26.35
2×09	24.00	29.35
2×10	27.00	32.35
2×11	30.00	35.35
2×12	33.00	38.35



Order Information:

L-KLS1-XM1-3.00-2×01-FH

L: RoHS

Pitch: 3.00mm

Pins:

1-Single layer

2-Double layer

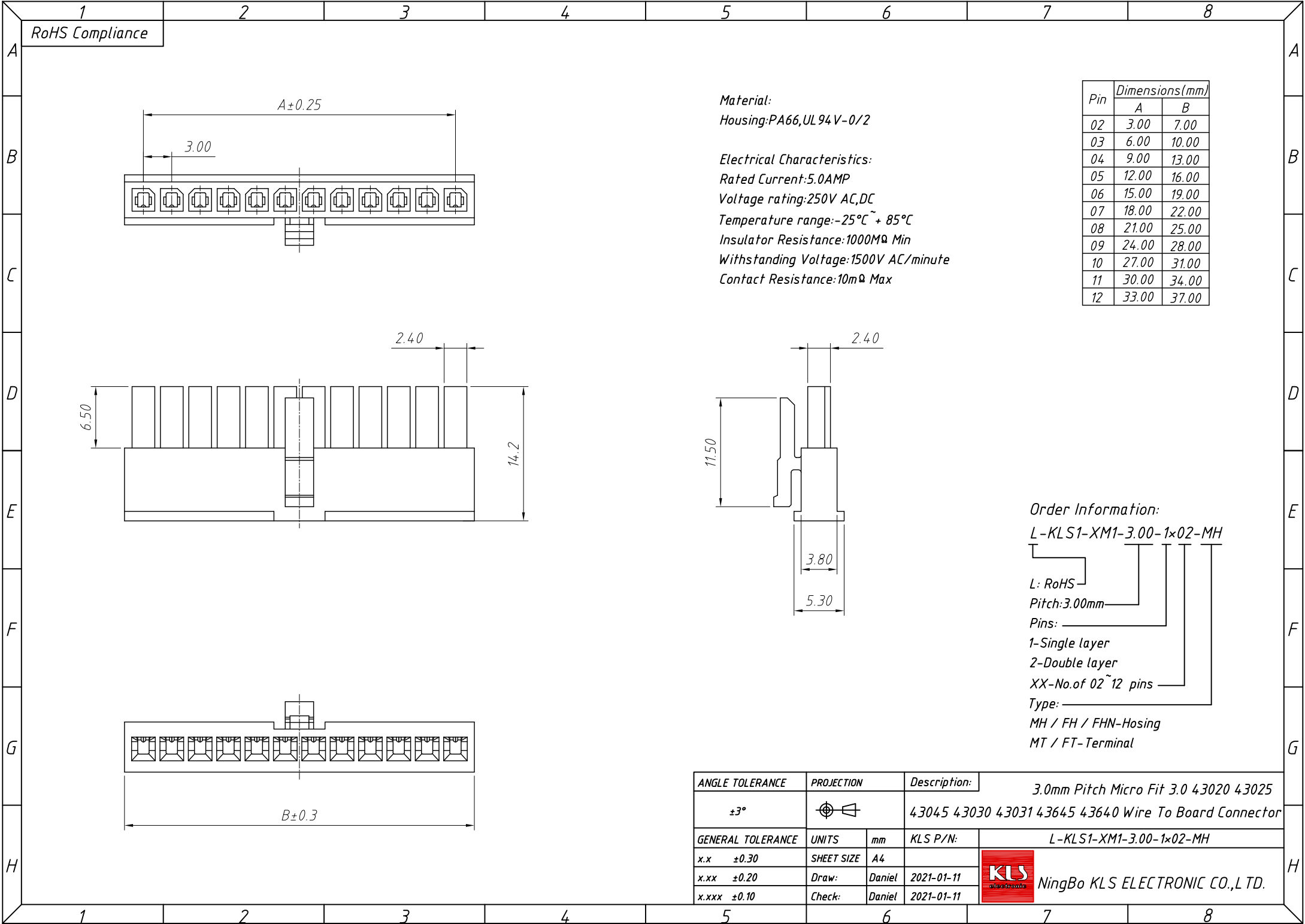
XX-No. of 01~12 pins

Type:

MH / FH / FHN-Hosing

MT / FT-Terminal

ANGLE TOLERANCE	PROJECTION	Description:
$\pm 3^{\circ}$		3.0mm Pitch Micro Fit 3.0 43020 43025 43045 43030 43031 43645 43640 Wire To Board Connector
GENERAL TOLERANCE	UNITS	mm
x.x ± 0.30	SHEET SIZE	A4
x.xx ± 0.20	Draw:	Daniel
x.xxx ± 0.10	Check:	Daniel
KLS P/N:		L-KLS1-XM1-3.00-2×01-FH
NingBo KLS ELECTRONIC CO.,LTD.		



1 RoHS Compliance

2

3

4

5

6

7

8

A

B

C

D

E

F

G

H

A

B

C

D

E

F

G

H

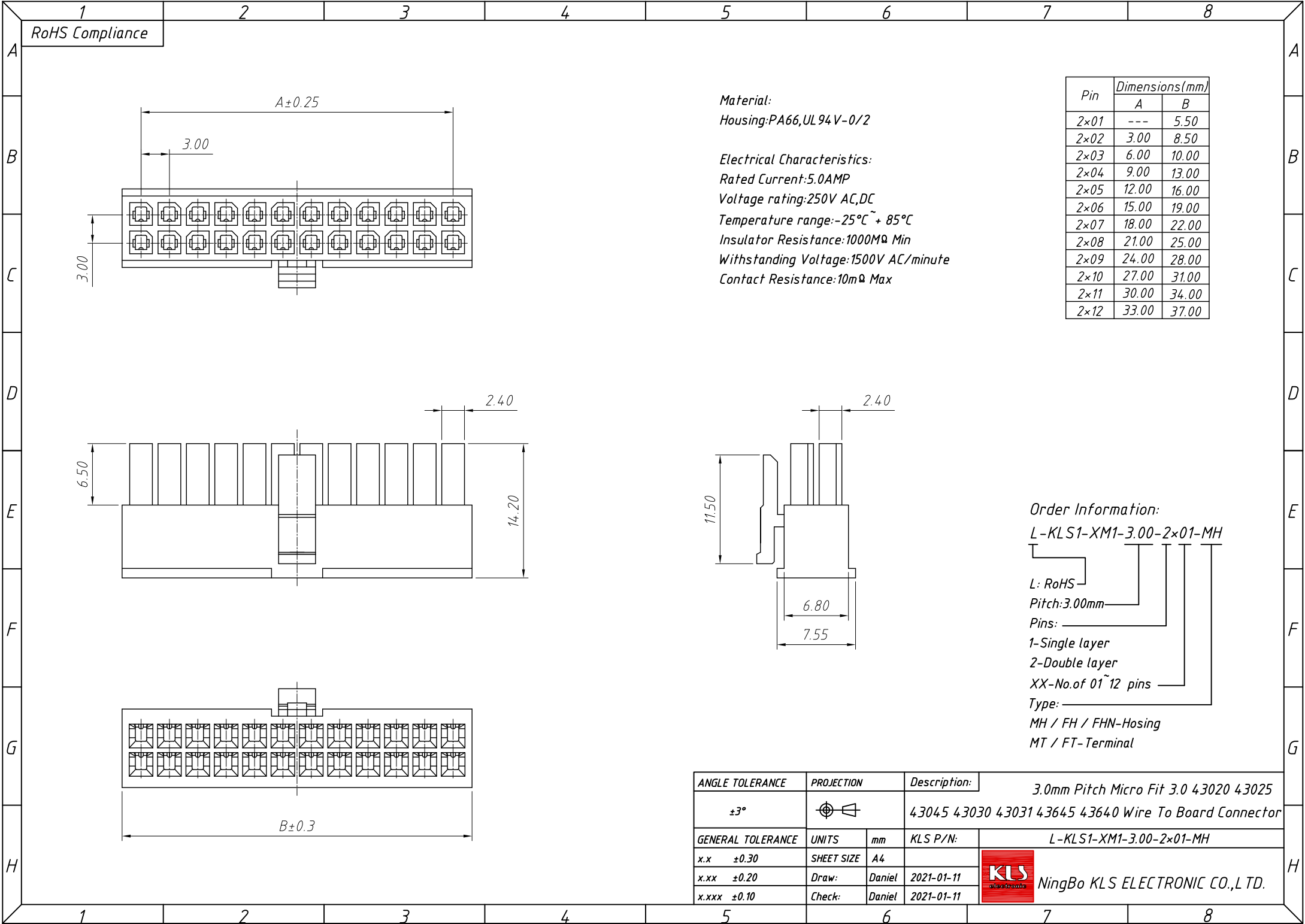
Material:
Housing:PA66,UL 94 V-0/2

Electrical Characteristics:
Rated Current:5.0AMP
Voltage rating:250V AC,DC
Temperature range:-25°C ~ + 85°C
Insulator Resistance:1000M Ω Min
Withstanding Voltage:1500V AC/minute
Contact Resistance:10m Ω Max

Order Information:
L-KLS1-XM1-3.00-1 $\times$ 02-MH

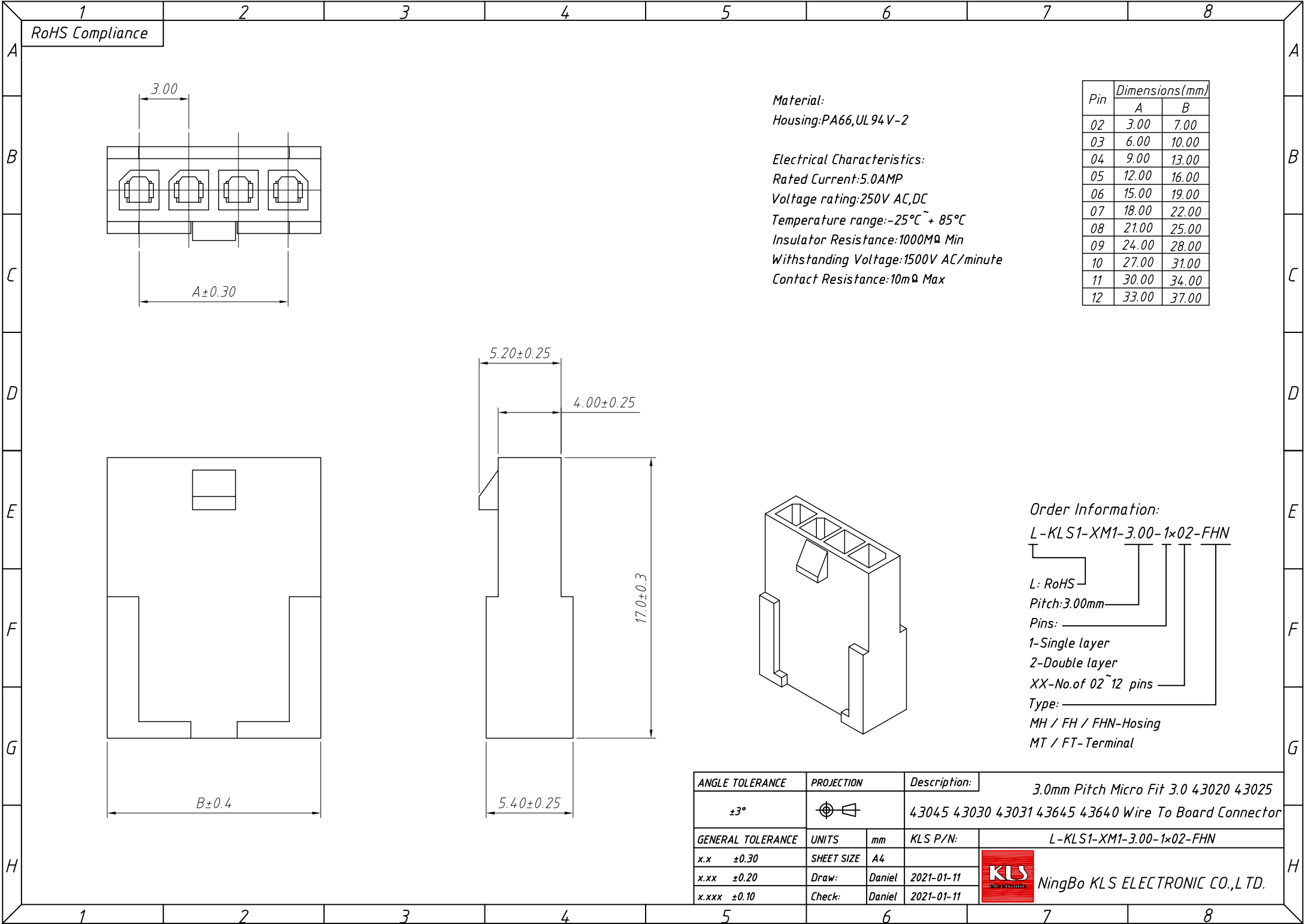
L: RoHS
Pitch:3.00mm
Pins:
1-Single layer
2-Double layer
XX-No.of 02~12 pins
Type:
MH / FH / FHN-Hosing
MT / FT-Terminal

ANGLE TOLERANCE	PROJECTION	Description:	3.0mm Pitch Micro Fit 3.0 43020 43025
$\pm 3^{\circ}$		43045 43030 43031 43645 43640 Wire To Board Connector	
GENERAL TOLERANCE	UNITS	mm	KLS P/N: L-KLS1-XM1-3.00-1 $\times$ 02-MH
x.x ± 0.30	SHEET SIZE	A4	
x.xx ± 0.20	Draw:	Daniel	2021-01-11
x.xxx ± 0.10	Check:	Daniel	2021-01-11



ANGLE TOLERANCE	PROJECTION	Description:	3.0mm Pitch Micro Fit 3.0 43020 43025
$\pm 3^{\circ}$		43045 43030 43031 43645 43640 Wire To Board Connector	
GENERAL TOLERANCE	UNITS	mm	KLS P/N: L-KLS1-XM1-3.00-2x01-MH
x.x ± 0.30	SHEET SIZE	A4	
x.xx ± 0.20	Draw:	Daniel	2021-01-11
x.xxx ± 0.10	Check:	Daniel	2021-01-11

NingBo KLS ELECTRONIC CO.,LTD.



1
RoHS Compliance

2

3

4

5

6

7

8

A

B

C

D

E

F

G

H

A

B

C

D

E

F

G

H

Material:
Housing:PA66,UL 94 V-2

Electrical Characteristics:
Rated Current:5.0AMP
Voltage rating:250V AC,DC
Temperature range:-25°C ~ + 85°C
Insulator Resistance:1000M Ω Min
Withstanding Voltage:1500V AC/minute
Contact Resistance:10m Ω Max

Pin	Dimensions(mm)	
	A	B
02	3.00	7.00
03	6.00	10.00
04	9.00	13.00
05	12.00	16.00
06	15.00	19.00
07	18.00	22.00
08	21.00	25.00
09	24.00	28.00
10	27.00	31.00
11	30.00	34.00
12	33.00	37.00

Order Information:
L-KLS1-XM1-3.00-1x02-FHN
L: RoHS
Pitch:3.00mm
Pins:
1-Single layer
2-Double layer
XX-No.of 02~12 pins
Type:
MH / FH / FHN-Hosing
MT / FT-Terminal

ANGLE TOLERANCE		PROJECTION		Description:	
$\pm 3^\circ$				3.0mm Pitch Micro Fit 3.0 43020 43025 43045 43030 43031 43645 43640 Wire To Board Connector	
GENERAL TOLERANCE		UNITS	mm	KLS P/N:	L-KLS1-XM1-3.00-1x02-FHN
x.x	± 0.30	SHEET SIZE	A4		
x.xx	± 0.20	Draw:	Daniel	2021-01-11	
x.xxx	± 0.10	Check:	Daniel	2021-01-11	



NingBo KLS ELECTRONIC CO.,L TD.

1
RoHS Compliance

2

3

4

5

6

7

8

A

B

C

D

E

F

G

H

A

B

C

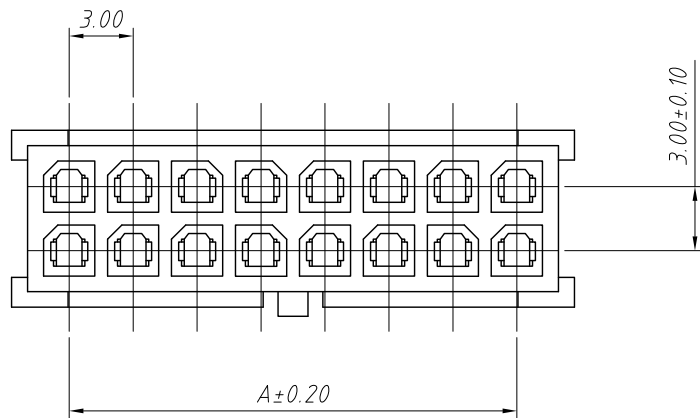
D

E

F

G

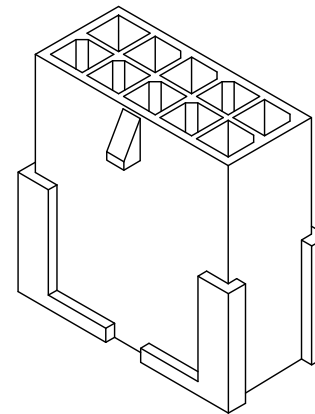
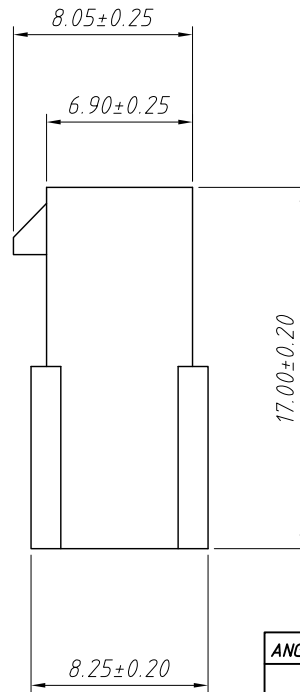
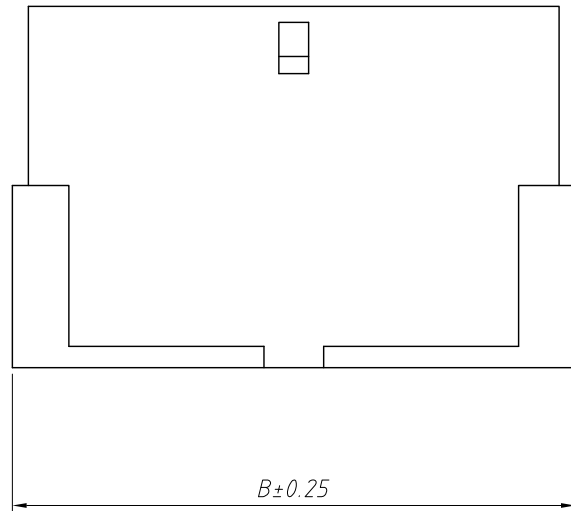
H



Material:
Housing:PA66,UL 94V-2

Electrical Characteristics:
Rated Current:5.0AMP
Voltage rating:250V AC,DC
Temperature range:-25°C ~ +85°C
Insulator Resistance:1000M Ω Min
Withstanding Voltage:1500V AC/minute
Contact Resistance:20m Ω Max

Pin	Dimensions(mm)	
	A	B
2×01	---	3.85
2×02	3.00	6.85
2×03	6.00	9.85
2×04	9.00	12.85
2×05	12.00	15.85
2×06	15.00	18.85
2×07	18.00	21.85
2×08	21.00	24.85
2×09	24.00	27.85
2×10	27.00	30.85
2×11	30.00	33.85
2×12	33.00	36.85



Order Information:
L-KLS1-XM1-3.00-2×01-FHN
L: RoHS
Pitch:3.00mm
Pins: _____
1-Single layer
2-Double layer
XX-No.of 01~12 pins
Type: _____
MH / FH / FHN-Hosing
MT / FT-Terminal

ANGLE TOLERANCE	PROJECTION		Description:	
±3°			3.0mm Pitch Micro Fit 3.0 43020 43025 43045 43030 43031 43645 43640 Wire To Board Connector	
GENERAL TOLERANCE	UNITS	mm	KLS P/N:	L-KLS1-XM1-3.00-2×01-FHN
x.x ±0.30	SHEET SIZE	A4		
x.xx ±0.20	Draw:	Daniel	2021-01-11	NingBo KLS ELECTRONIC CO.,LTD.
x.xxx ±0.10	Check:	Daniel	2021-01-11	

1
RoHS Compliance

2

3

4

5

6

7

8

A

B

C

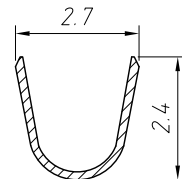
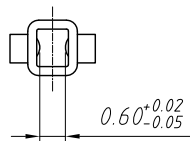
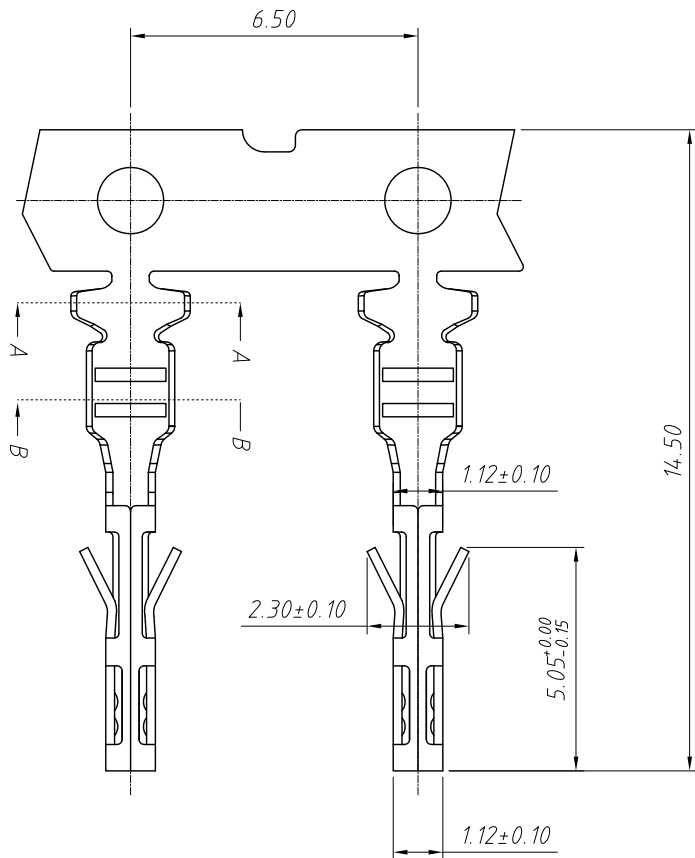
D

E

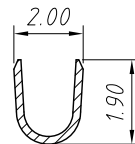
F

G

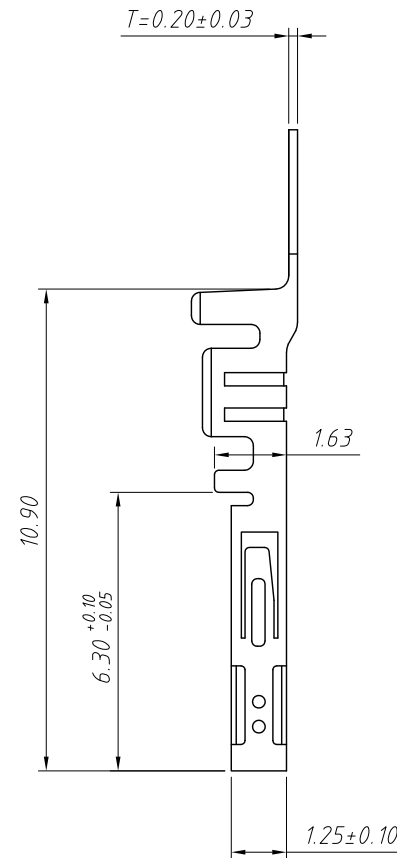
H



SECTION A-A



SECTION B-B



Material:

Terminal: Phosphor Bronze

Plating: Tin plated Over nickel

Applicable wires: AWG #20 ~ #24

Insulation O.D: 1.30 ~ 1.80mm

Qty/reel: 10000PCS

Electrical Characteristics:

Current rating: 5.0A AC,DC

Voltage rating: 250V AC,DC

Temperature range: -25°C ~ +85°C

Insulation resistance: 1000MΩ/Min.

Withstanding voltage: 1500V AC/minute

Contact resistance: 10mΩ/Max.

Order Information:

L-KLS1-XM1-3.00-FT

L: RoHS

Pitch: 3.00mm

Type:

MH / FH / FHN-Hosing

MT / FT-Terminal

ANGLE TOLERANCE	PROJECTION	Description:	3.0mm Pitch Micro Fit 3.0 43020 43025
±3°		43045 43030 43031 43645 43640 Wire to Board Connector	
GENERAL TOLERANCE	UNITS	mm	KLS P/N:
x.x ±0.30	SHEET SIZE	A4	L-KLS1-XM1-3.00-FT
x.xx ±0.20	Draw:	Daniel	2020-11-11
x.xxx ±0.10	Check:	Daniel	2020-11-11



NingBo KLS ELECTRONIC CO.,LTD.

1
RoHS Compliance

2

3

4

5

6

7

8

A

B

C

D

E

F

G

H

A

B

C

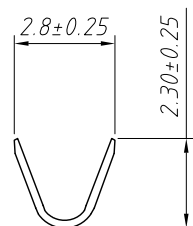
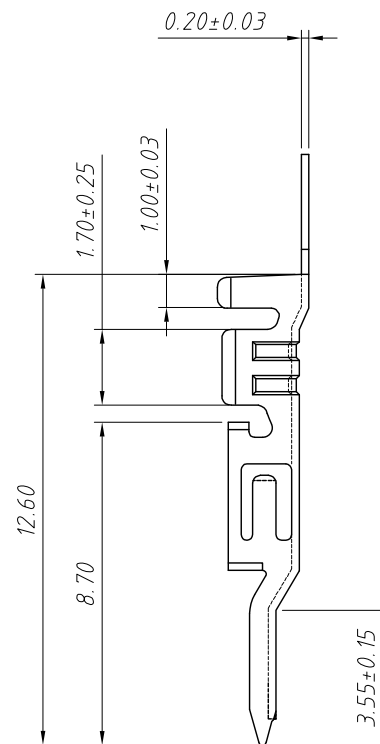
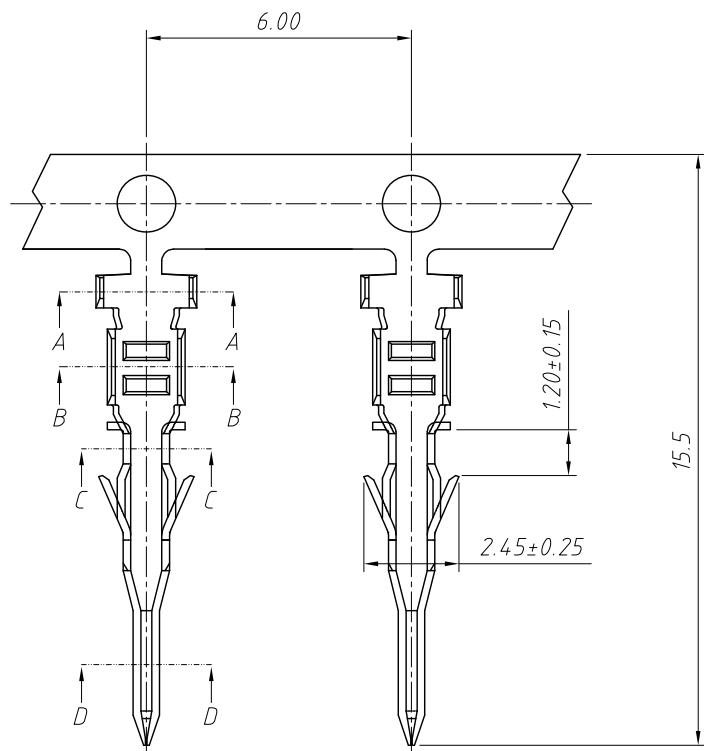
D

E

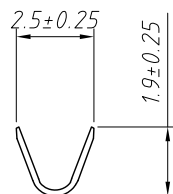
F

G

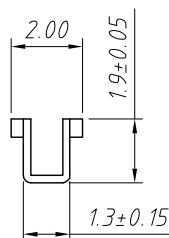
H



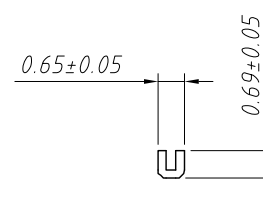
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

Material:
Terminal: Phosphor Bronze
Plating: Tin plated Over nickel
Applicable wires: AWG #22 ~ #28
Insulation O.D: 1.80mm Max.
Qty/reel: 10000PCS

Electrical Characteristics:
Current rating: 5.0A AC,DC
Voltage rating: 250V AC,DC
Temperature range: -25°C ~ +85°C
Insulation resistance: 1000MΩ/Min.
Withstanding voltage: 1500V AC/minute
Contact resistance: 10mΩ/Max.

Order Information:
L-KLS1-XM1-3.00-MT

L: RoHS
Pitch: 3.00mm
Type: MH / FH / FHN-Hosing
MT / FT-Terminal

ANGLE TOLERANCE	PROJECTION	Description:	3.0mm Pitch Micro Fit 3.0 43020 43025
±3°		43045 43030 43031 43645 43640	Wire to Board Connector
GENERAL TOLERANCE	UNITS	mm	KLS P/N:
x.x ±0.30	SHEET SIZE	A4	L-KLS1-XM1-3.00-MT
x.xx ±0.20	Draw:	Daniel	2020-11-11
x.xxx ±0.10	Check:	Daniel	2020-11-11



NingBo KLS ELECTRONIC CO.,LTD.

1
RoHS Compliance

2

3

4

5

6

7

8

A

B

C

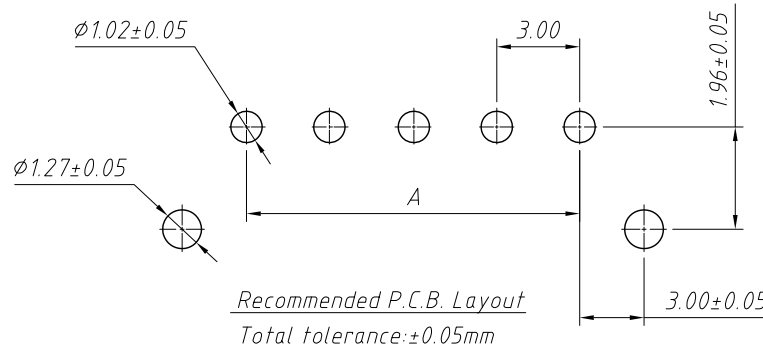
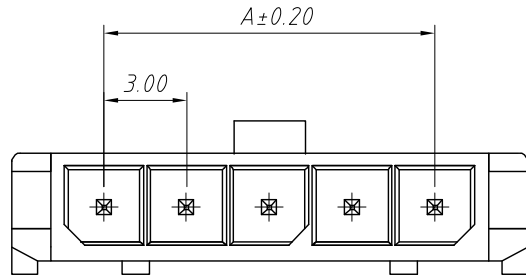
D

E

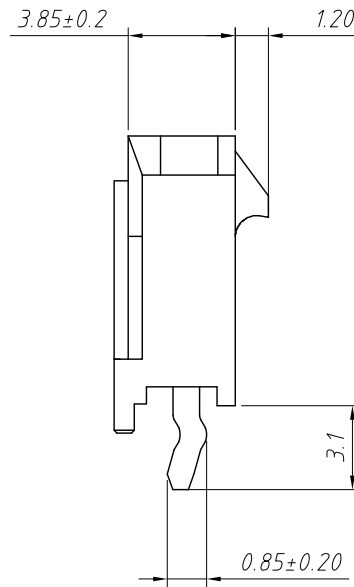
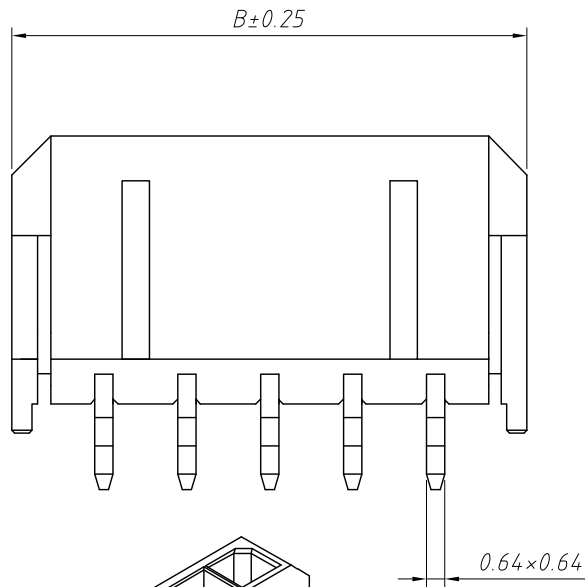
F

G

H



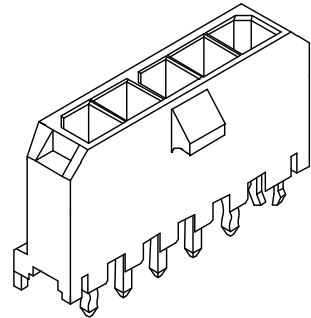
Pin	Dimensions(mm)	
	A	B
02	3.00	9.65
03	6.00	12.65
04	9.00	15.65
05	12.00	18.65
06	15.00	21.65
07	18.00	24.65
08	21.00	27.65
09	24.00	30.65
10	27.00	33.65
11	30.00	36.65
12	33.00	39.65



Material:
Insulator:PA9T , UL94V-0
Contact:Brass
Plating: Tin plated or Gold plated

Electrical Characteristics:
Rated Current:5.0AMP
Voltage rating:250V AC,DC
Temperature range:-25°C ~ +85°C
Insulator Resistance:1000M Ω Min
Withstanding Voltage:1500V AC/minute
Contact Resistance:10m Ω Max

Order Information:
L-KLS1-XM1-3.00-1×02-S
L: RoHS
Pitch:3.00mm
Pins: _____
1-Single layer
2-Double layer
XX-No.of 02~12 pins
Type: _____
S / SD-Straight male pin



ANGLE TOLERANCE	PROJECTION	Description:	3.0mm Pitch Micro Fit 3.0 43020 43025
$\pm 3^\circ$			43045 43030 43031 43645 43640 Wire To Board Connector
GENERAL TOLERANCE	UNITS	mm	KLS P/N: L-KLS1-XM1-3.00-1×02-S
x.x ± 0.30	SHEET SIZE	A4	NingBo KLS ELECTRONIC CO.,L TD.
x.xx ± 0.20	Draw:	Daniel	
x.xxx ± 0.10	Check:	Daniel	

1

2

3

4

5

6

7

8

A

B

C

D

E

F

G

H

1
RoHS Compliance

2

3

4

5

6

7

8

A

B

C

D

E

F

G

H

A

B

C

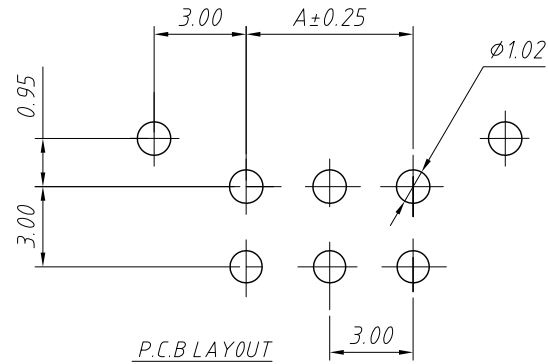
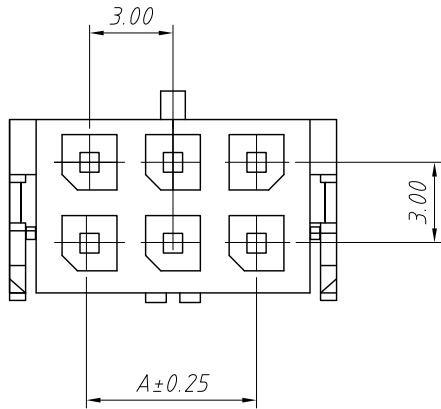
D

E

F

G

H



Material:

Insulator:PA46 , UL94 V-0

Contact:Brass

Plating: Tin plated

Electrical Characteristics:

Rated Current:5.0AMP

Voltage rating:250V AC,DC

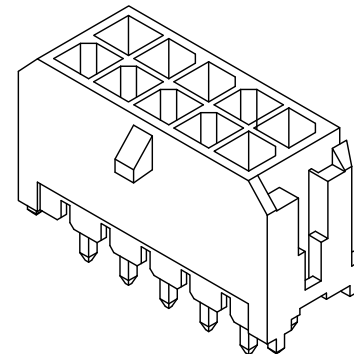
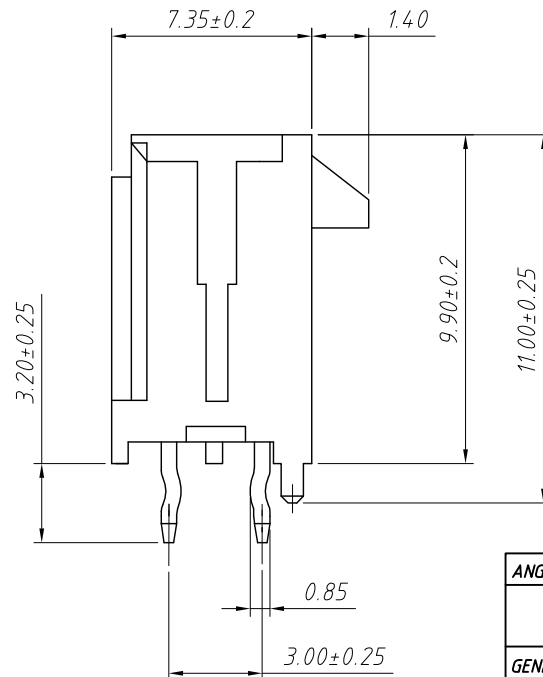
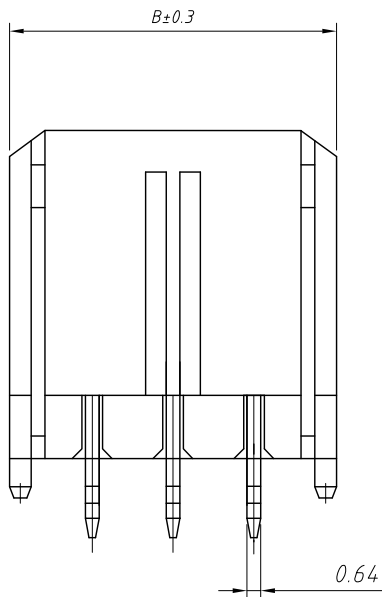
Temperature range:-25°C ~ + 85°C

Insulator Resistance:1000MΩ Min

Withstanding Voltage:1500V AC/minute

Contact Resistance:10mΩ Max

Pin	Dimensions(mm)	
	A	B
01	---	6.65
02	3.00	9.65
03	6.00	12.65
04	9.00	15.65
05	12.00	18.65
06	15.00	21.65
07	18.00	24.65
08	21.00	27.65
09	24.00	30.65
10	27.00	33.65
11	30.00	36.65
12	33.00	39.65



Order Information:

L-KLS1-XM1-3.00-2×02-S

L: RoHS

Pitch:3.00mm

Pins:

1-Single layer

2-Double layer

XX-No.of 01~12 pins

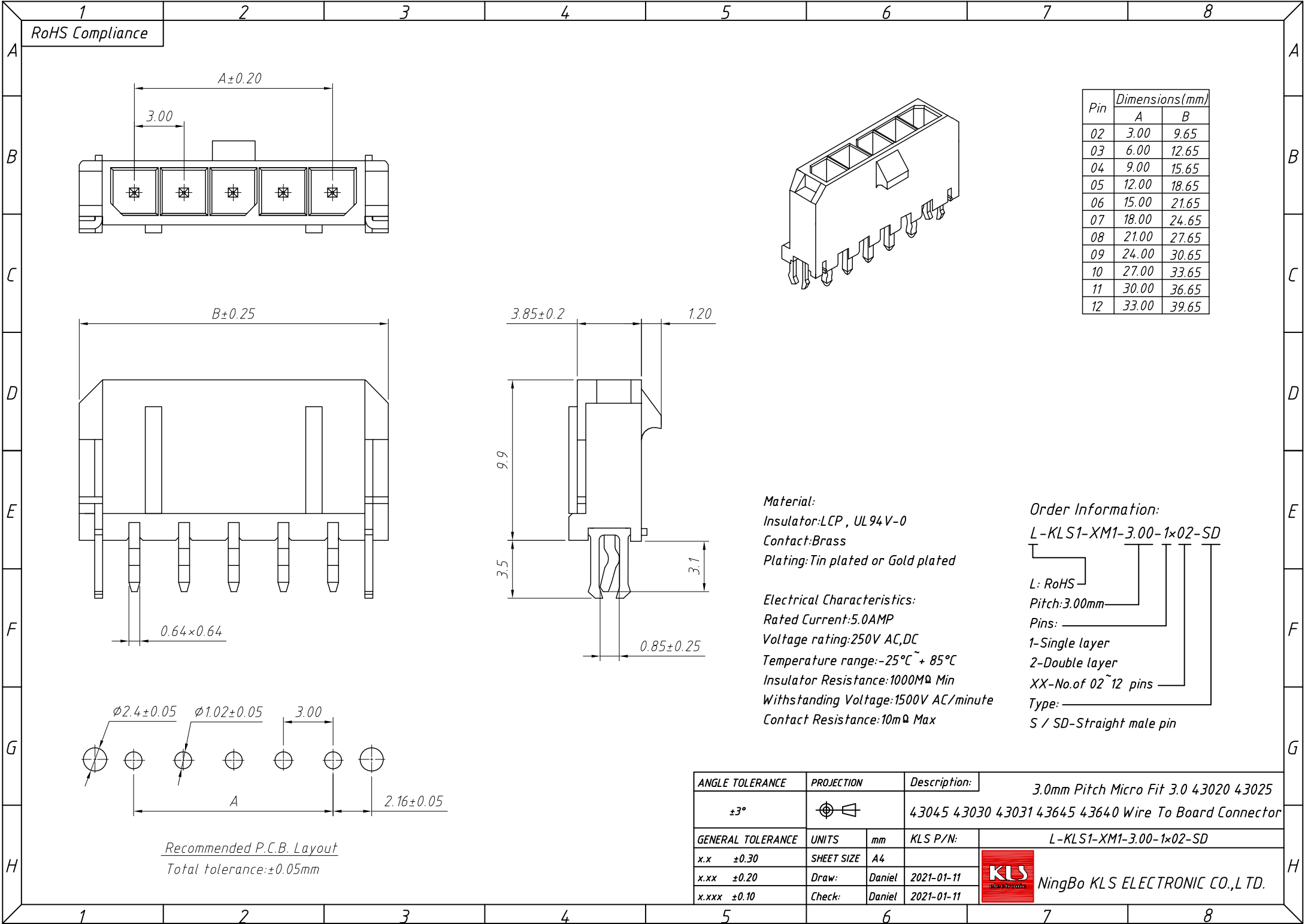
Type:

S / SD-Straight male pin

ANGLE TOLERANCE	PROJECTION	Description:	
±3°		3.0mm Pitch Micro Fit 3.0 43020 43025 43045 43030 43031 43645 43640 Wire To Board Connector	
GENERAL TOLERANCE	UNITS	mm	KLS P/N:
x.x ±0.30	SHEET SIZE	A4	L-KLS1-XM1-3.00-2×02-S
x.xx ±0.20	Draw:	Daniel	2021-01-11
x.xxx ±0.10	Check:	Daniel	2021-01-11



NingBo KLS ELECTRONIC CO.,LTD.



1 RoHS Compliance

2

3

4

5

6

7

8

A

B

C

D

E

F

G

H

A

B

C

D

E

F

G

H

Pin	Dimensions(mm)	
	A	B
02	3.00	9.65
03	6.00	12.65
04	9.00	15.65
05	12.00	18.65
06	15.00	21.65
07	18.00	24.65
08	21.00	27.65
09	24.00	30.65
10	27.00	33.65
11	30.00	36.65
12	33.00	39.65

Material:
Insulator:LCP , UL 94 V-0
Contact:Brass
Plating:Tin plated or Gold plated

Electrical Characteristics:
Rated Current:5.0AMP
Voltage rating:250V AC,DC
Temperature range:-25°C ~ + 85°C
Insulator Resistance:1000MΩ Min
Withstanding Voltage:1500V AC/minute
Contact Resistance:10mΩ Max

Order Information:
L-KLS1-XM1-3.00-1×02-SD
L: RoHS
Pitch:3.00mm
Pins:
1-Single layer
2-Double layer
XX-No.of 02~12 pins
Type:
S / SD-Straight male pin

ANGLE TOLERANCE	PROJECTION	Description:	3.0mm Pitch Micro Fit 3.0 43020 43025
±3°			43045 43030 43031 43645 43640 Wire To Board Connector
GENERAL TOLERANCE	UNITS	mm	KLS P/N:
x.x ±0.30	SHEET SIZE	A4	L-KLS1-XM1-3.00-1×02-SD
x.xx ±0.20	Draw:	Daniel	2021-01-11
x.xxx ±0.10	Check:	Daniel	2021-01-11



NingBo KLS ELECTRONIC CO.,LTD.

Recommended P.C.B. Layout
Total tolerance:±0.05mm

1
RoHS Compliance

2

3

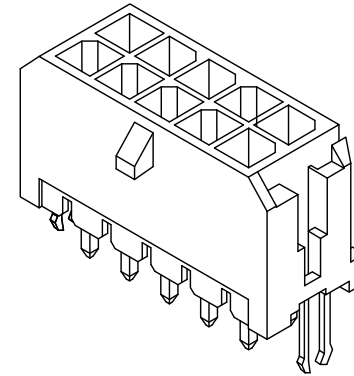
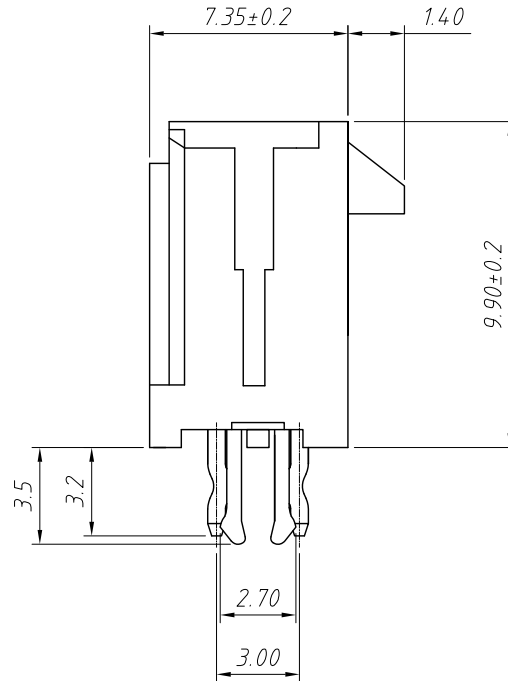
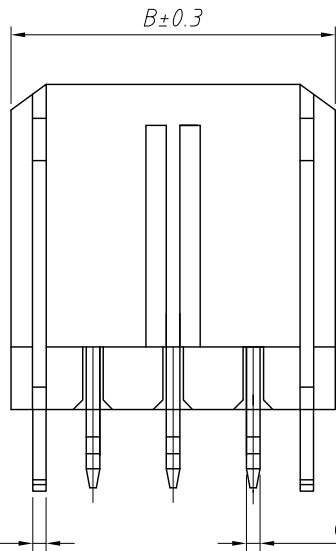
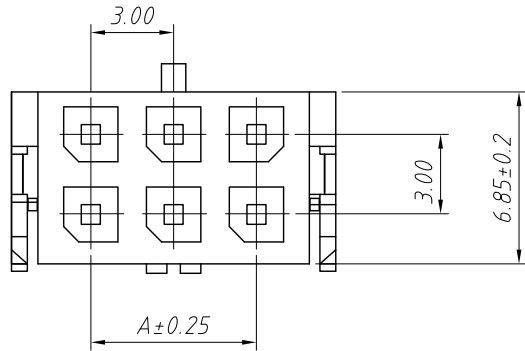
4

5

6

7

8



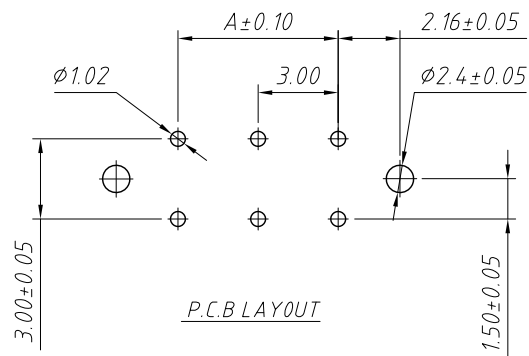
Pin	Dimensions(mm)	
	A	B
01	---	6.65
02	3.00	9.65
03	6.00	12.65
04	9.00	15.65
05	12.00	18.65
06	15.00	21.65
07	18.00	24.65
08	21.00	27.65
09	24.00	30.65
10	27.00	33.65
11	30.00	36.65
12	33.00	39.65

Material:
Insulator:LCP , UL 94 V-0
Contact:Brass
Plating:Tin plated over Ni

Electrical Characteristics:
Rated Current:5.0AMP
Voltage rating:250V AC,DC
Temperature range:-25℃ ~ + 85℃
Insulator Resistance:1000MΩ Min
Withstanding Voltage:1500V AC/minute
Contact Resistance:10mΩ Max

Order Information:
L-KLS1-XM1-3.00-2×02-SD

L: RoHS
Pitch:3.00mm
Pins: _____
1-Single layer
2-Double layer
XX-No.of 01~12 pins
Type: _____
S / SD-Straight male pin



ANGLE TOLERANCE	PROJECTION	Description: 3.0mm Pitch Micro Fit 3.0 43020 43025 43045 43030 43031 43645 43640 Wire To Board Connector	
±3°			
GENERAL TOLERANCE	UNITS	mm	KLS P/N: L-KLS1-XM1-3.00-2×02-SD
x.x ±0.30	SHEET SIZE	A4	NingBo KLS ELECTRONIC CO.,L TD.
x.xx ±0.20	Draw:	Daniel	
x.xxx ±0.10	Check:	Daniel	
		2021-01-11	
		2021-01-11	

1
RoHS Compliance

2

3

4

5

6

7

8

A

B

C

D

E

F

G

H

A

B

C

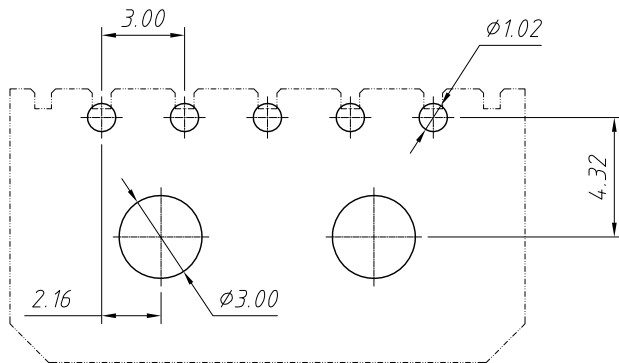
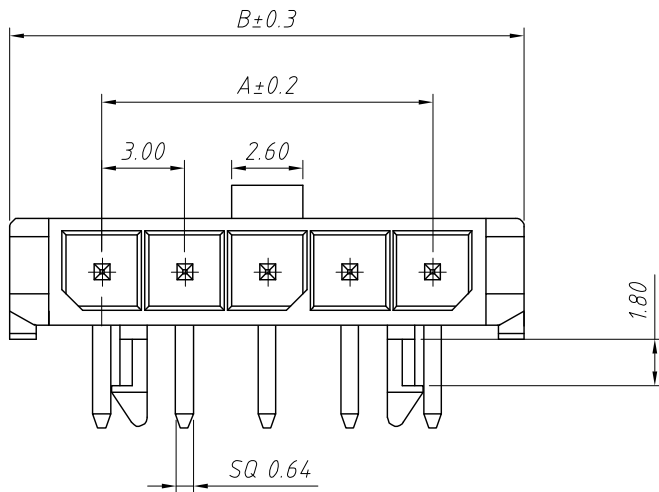
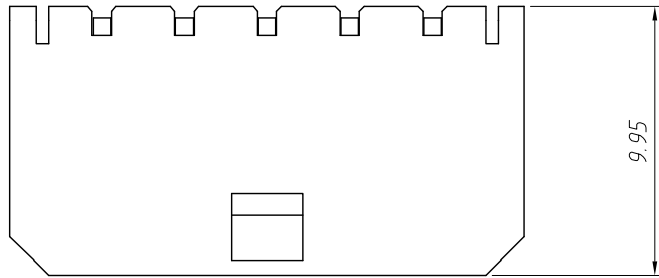
D

E

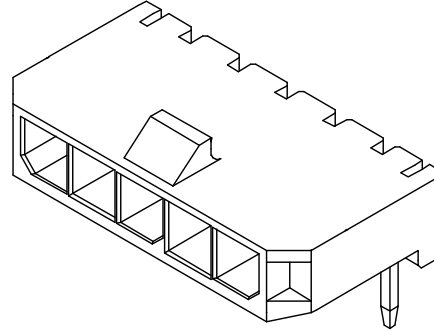
F

G

H



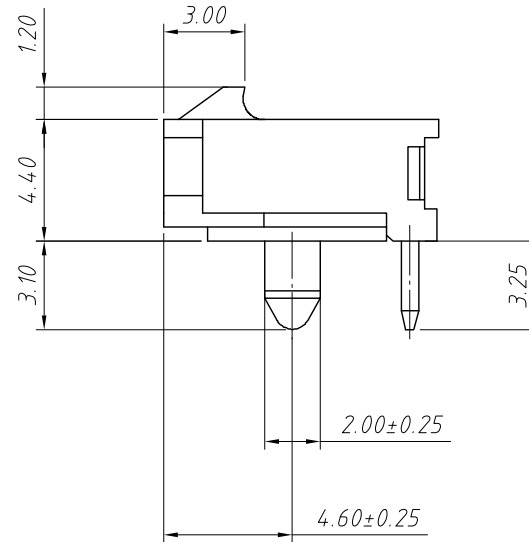
Recommended P.C.B. Layout
Total tolerance:±0.05mm



Material:
Insulator:PA9T , UL94 V-0
Contact:Brass
Plating:Tin plated or Gold plated

Electrical Characteristics:
Rated Current:5.0AMP
Voltage rating:250V AC,DC
Temperature range:-25°C ~ + 85°C
Insulator Resistance:1000M Ω Min
Withstanding Voltage:1500V AC/minute
Contact Resistance:10m Ω Max

Pin	Dimensions(mm)	
	A	B
02	3.00	9.65
03	6.00	12.65
04	9.00	15.65
05	12.00	18.65
06	15.00	21.65
07	18.00	24.65
08	21.00	27.65
09	24.00	30.65
10	27.00	33.65
11	30.00	36.65
12	33.00	39.65



Order Information:

L-KLS1-XM1-3.00-1×02-R

L: RoHS
Pitch:3.00mm
Pins:
1-Single layer
2-Double layer
XX-No.of 02~12 pins
Type:
R / RC-Right angle male pin

ANGLE TOLERANCE	PROJECTION	Description:	
±3°		3.0mm Pitch Micro Fit 3.0 43020 43025 43045 43030 43031 43645 43640 Wire To Board Connector	
GENERAL TOLERANCE	UNITS	mm	KLS P/N:
x.x ±0.30	SHEET SIZE	A4	L-KLS1-XM1-3.00-1×02-R
x.xx ±0.20	Draw:	Daniel	2021-01-11
x.xxx ±0.10	Check:	Daniel	2021-01-11



NingBo KLS ELECTRONIC CO.,LTD.

1
RoHS Compliance

2

3

4

5

6

7

8

A

B

C

D

E

F

G

H

A

B

C

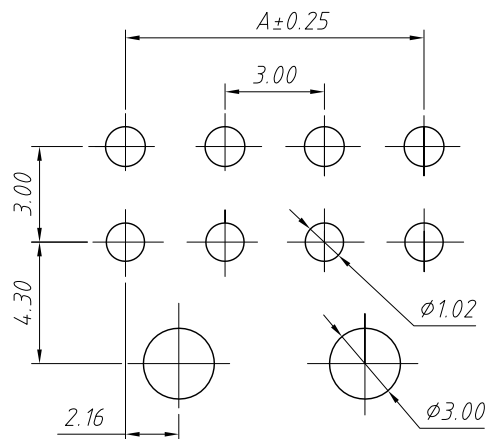
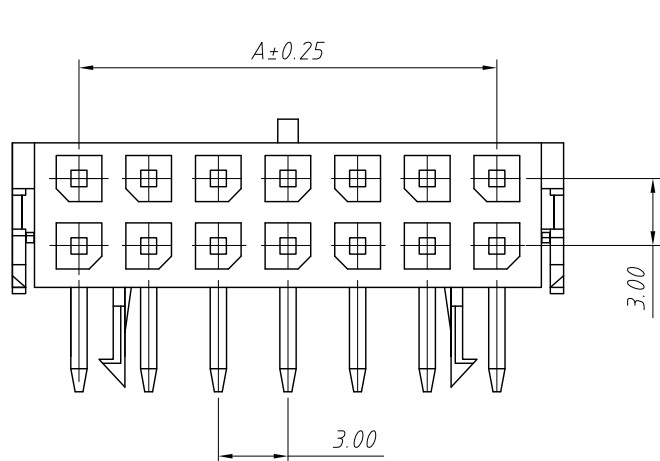
D

E

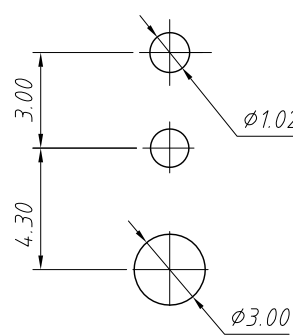
F

G

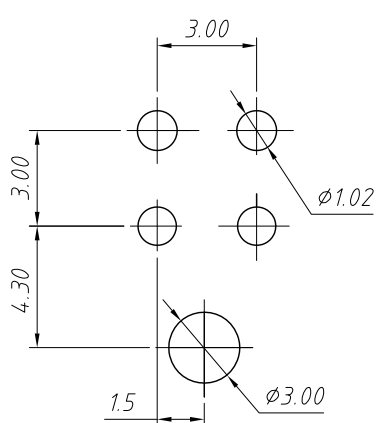
H



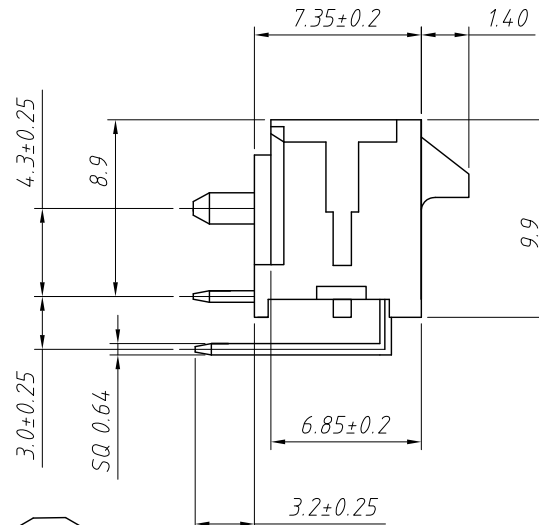
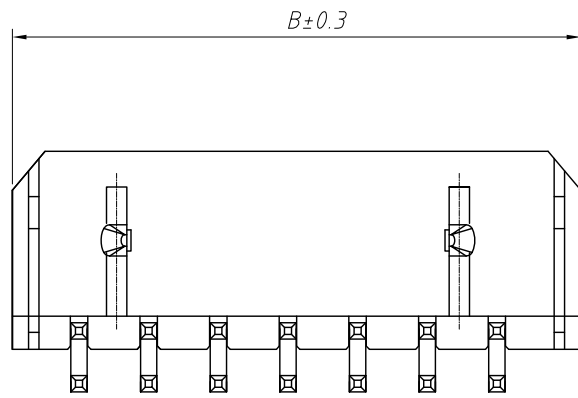
2x4P~2x12P P.C.B LAYOUT



2x1P P.C.B LAYOUT



2x2P~2x3P P.C.B LAYOUT



Pin	Dimensions(mm)	
	A	B
01	---	6.65
02	3.00	9.65
03	6.00	12.65
04	9.00	15.65
05	12.00	18.65
06	15.00	21.65
07	18.00	24.65
08	21.00	27.65
09	24.00	30.65
10	27.00	33.65
11	30.00	36.65
12	33.00	39.65

Order Information:

L-KLS1-XM1-3.00-2x02-R

L: RoHS
Pitch:3.00mm
Pins: _____
1-Single layer
2-Double layer
XX-No.of 01~12 pins _____
Type: _____
R / RC-Right angle male pin

Material:

Insulator:PA46 , UL94 V-0

Contact:Brass

Plating:Tin plated

Electrical Characteristics:

Rated Current:5.0AMP

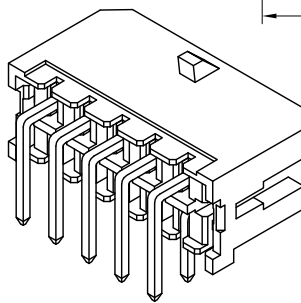
Voltage rating:250V AC,DC

Temperature range:-25℃~+ 85℃

Insulator Resistance:1000MΩ Min

Withstanding Voltage:1500V AC/minute

Contact Resistance:10mΩ Max



ANGLE TOLERANCE	PROJECTION	Description:	
±3°		3.0mm Pitch Micro Fit 3.0 43020 43025 43045 43030 43031 43645 43640 Wire To Board Connector	
GENERAL TOLERANCE	UNITS	mm	KLS P/N:
x.x ±0.30	SHEET SIZE	A4	L-KLS1-XM1-3.00-2x02-R
x.xx ±0.20	Draw:	Daniel	2021-01-11
x.xxx ±0.10	Check:	Daniel	2021-01-11



NingBo KLS ELECTRONIC CO.,L TD.

1
RoHS Compliance

2

3

4

5

6

7

8

A

B

C

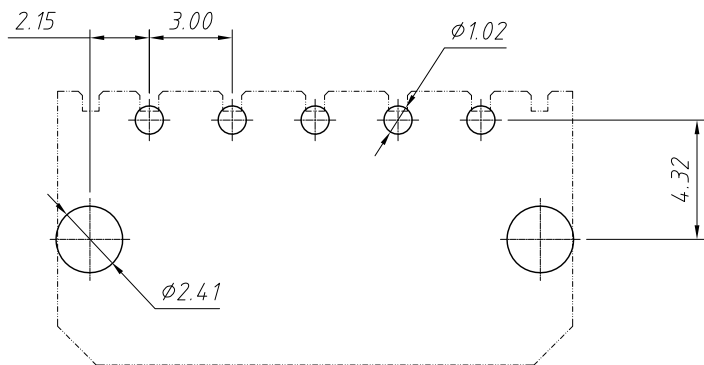
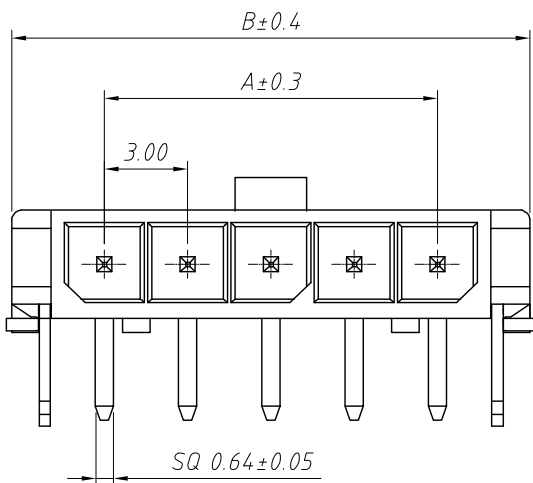
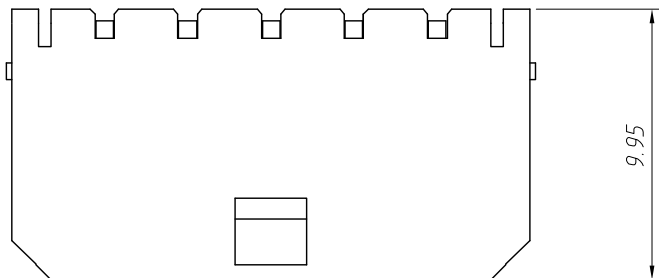
D

E

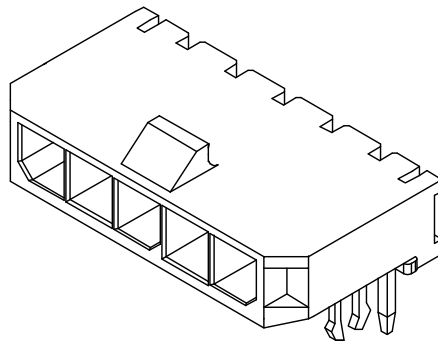
F

G

H



Recommended P.C.B. Layout
Total tolerance:±0.05mm



Material:

Insulator:LCP , UL94 V-0

Contact:Brass

Plating:Tin plated or Gold plated

Electrical Characteristics:

Rated Current:5.0AMP

Voltage rating:250V AC,DC

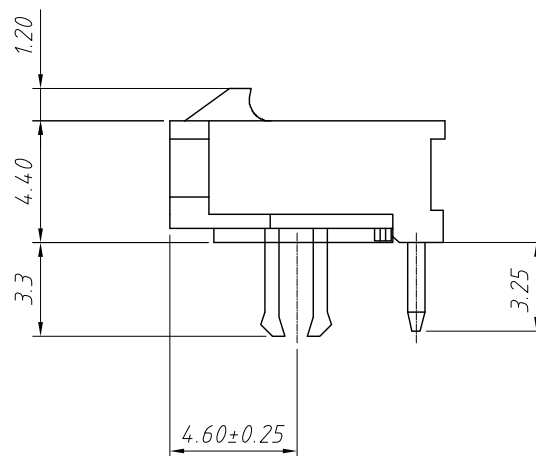
Temperature range:-25°C ~ + 85°C

Insulator Resistance:1000MΩ Min

Withstanding Voltage:1500V AC/minute

Contact Resistance:10mΩ Max

Pin	Dimensions(mm)	
	A	B
02	3.00	9.65
03	6.00	12.65
04	9.00	15.65
05	12.00	18.65
06	15.00	21.65
07	18.00	24.65
08	21.00	27.65
09	24.00	30.65
10	27.00	33.65
11	30.00	36.65
12	33.00	39.65



Order Information:

L-KLS1-XM1-3.00-1×02-RC

L: RoHS

Pitch:3.00mm

Pins:

1-Single layer

2-Double layer

XX-No.of 02~12 pins

Type:

R / RC-Right angle male pin

ANGLE TOLERANCE	PROJECTION		Description:	
±3°			3.0mm Pitch Micro Fit 3.0 43020 43025 43045 43030 43031 43645 43640 Wire To Board Connector	
GENERAL TOLERANCE	UNITS	mm	KLS P/N:	L-KLS1-XM1-3.00-1×02-RC
x.x ±0.30	SHEET SIZE	A4		
x.xx ±0.20	Draw:	Daniel	2021-01-11	NingBo KLS ELECTRONIC CO.,L TD.
x.xxx ±0.10	Check:	Daniel	2021-01-11	

1

2

3

4

5

6

7

8

A

B

C

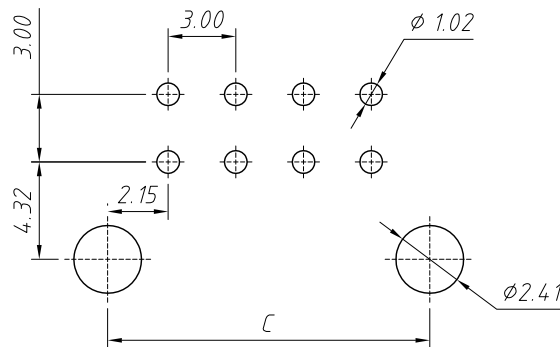
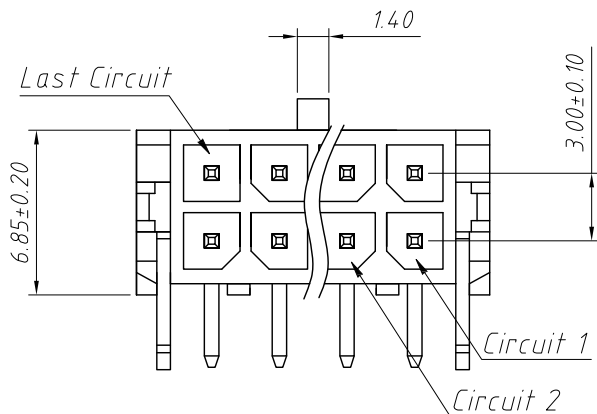
D

E

F

G

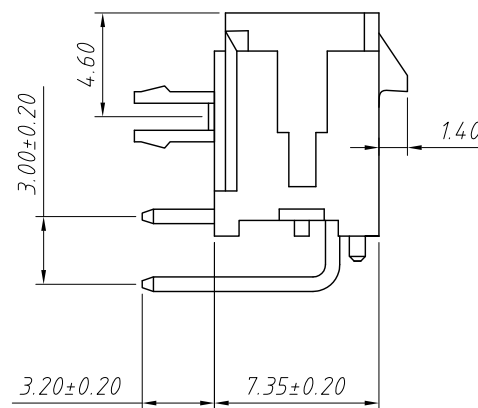
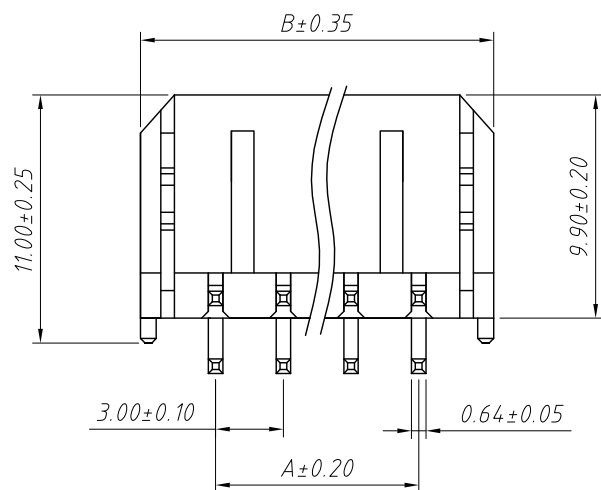
H



Recommended P.C.B. Layout

Total tolerance:±0.05mm

Pin	Dimensions(mm)		
	A	B	C
01	---	6.65	4.30
02	3.00	9.65	7.30
03	6.00	12.65	10.30
04	9.00	15.65	13.30
05	12.00	18.65	16.30
06	15.00	21.65	19.30
07	18.00	24.65	22.30
08	21.00	27.65	25.30
09	24.00	30.65	28.30
10	27.00	33.65	31.30
11	30.00	36.65	34.30
12	33.00	39.65	37.30



Material:

Insulator:PA46 , UL94V-0

Contact:Brass,Tin plated

Electrical Characteristics:

Rated Current:5.0AMP

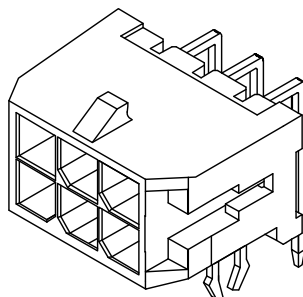
Voltage rating:250V AC,DC

Temperature range:-25℃ ~ + 85℃

Insulator Resistance:1000M Ω Min

Withstanding Voltage:1500V AC/minute

Contact Resistance:10m Ω Max



Order Information:

L-KLS1-XM1-3.00-2×02-RC

L: RoHS

Pitch:3.00mm

Pins:

1-Single layer

2-Double layer

XX-No.of 01~12 pins

Type:

R / RC-Right angle male pin

ANGLE TOLERANCE	PROJECTION		Description:	3.0mm Pitch Micro Fit 3.0 43020 43025 43045 43030 43031 43645 43640 Wire To Board Connector	
±3°					
GENERAL TOLERANCE	UNITS	mm	KLS P/N:	L-KLS1-XM1-3.00-2×02-RC	
x.x ±0.30	SHEET SIZE	A4			NingBo KLS ELECTRONIC CO.,L TD.
x.xx ±0.20	Draw:	Daniel	2021-01-11		
x.xxx ±0.10	Check:	Daniel	2021-01-11		

1
RoHS Compliance

2

3

4

5

6

7

8

A

B

C

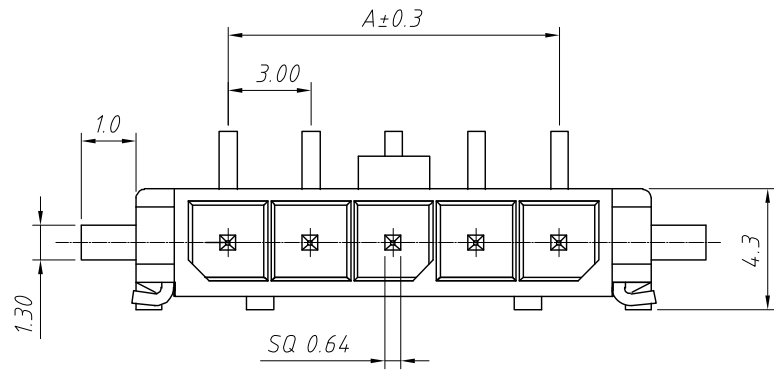
D

E

F

G

H



Order Information:

L-KLS1-XM1-3.00-1×02-VT

L: RoHS

Pitch: 3.00mm

Pins:

1-Single layer

2-Double layer

XX-No. of 02~12 pins

Type:

VT / VMT-Vertical SMT Pin

RT / RMT-Horizontal SMT Pin

Material:

Insulator: LCP, UL94V-0

Contact: Brass

Plating: Tin plated

Electrical Characteristics:

Rated Current: 5.0AMP

Voltage rating: 250V AC, DC

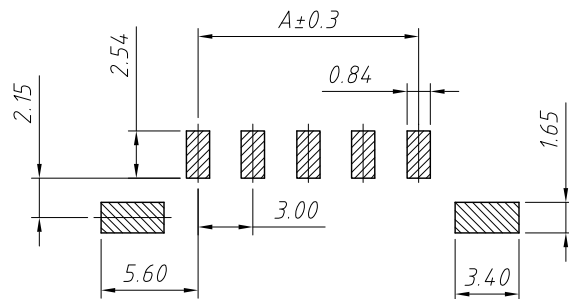
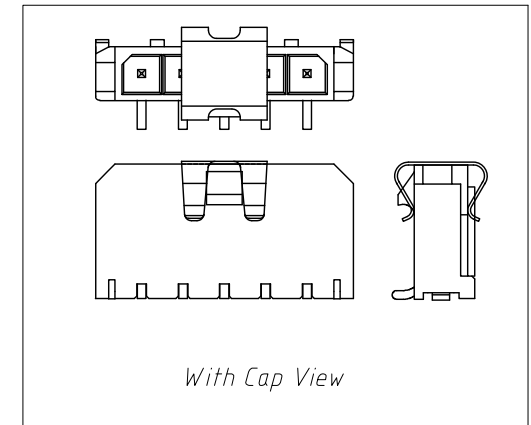
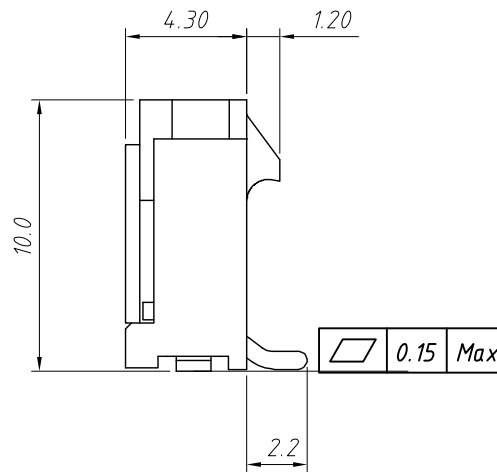
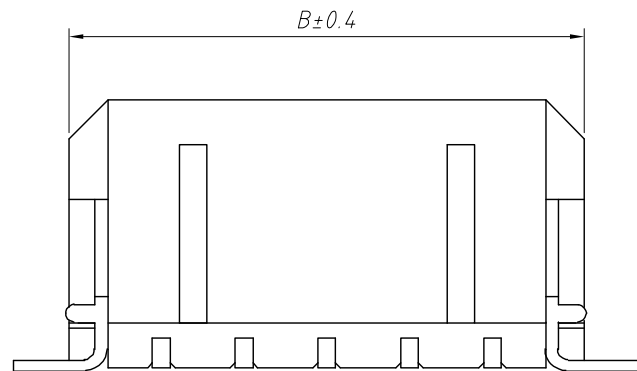
Temperature range: -25°C ~ +85°C

Insulator Resistance: 1000MΩ Min

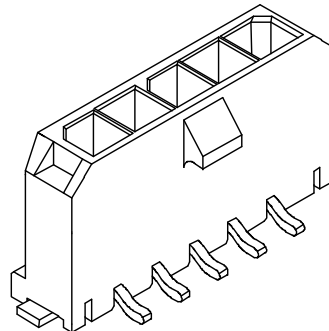
Withstanding Voltage: 1500V AC/minute

Contact Resistance: 10mΩ Max

Pin	Dimensions(mm)	
	A	B
02	3.00	9.70
03	6.00	12.70
04	9.00	15.70
05	12.00	18.70
06	15.00	21.70
07	18.00	24.70
08	21.00	27.70
09	24.00	30.70
10	27.00	33.70
11	30.00	36.70
12	33.00	39.70



PCB LAYOUT



ANGLE TOLERANCE	PROJECTION	Description:	3.0mm Pitch Micro Fit 3.0 43020 43025
±3°			43045 43030 43031 43645 43640 Wire To Board Connector
GENERAL TOLERANCE	UNITS	mm	KLS P/N: L-KLS1-XM1-3.00-1×02-VT
x.x ±0.30	SHEET SIZE	A4	
x.xx ±0.20	Draw:	Daniel	2021-01-11
x.xxx ±0.10	Check:	Daniel	2021-01-11



NingBo KLS ELECTRONIC CO.,LTD.

1
RoHS Compliance

2

3

4

5

6

7

8

A

B

C

D

E

F

G

H

A

B

C

D

E

F

G

H

Material:

Insulator:LCP, UL94 V-0

Contact:Brass

Plating:Tin plated

Electrical Characteristics:

Rated Current:5.0AMP

Voltage rating:250V AC,DC

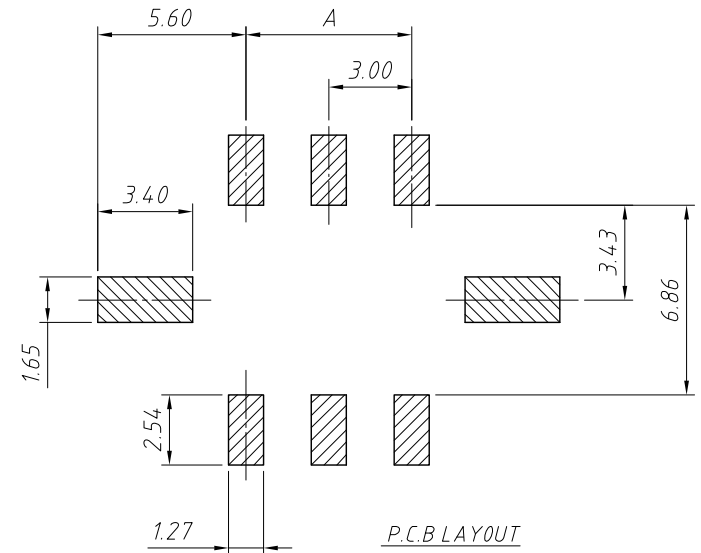
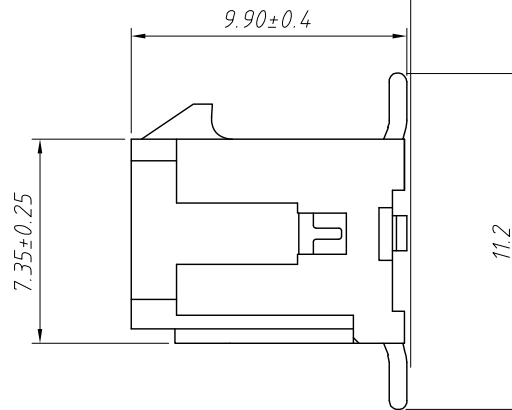
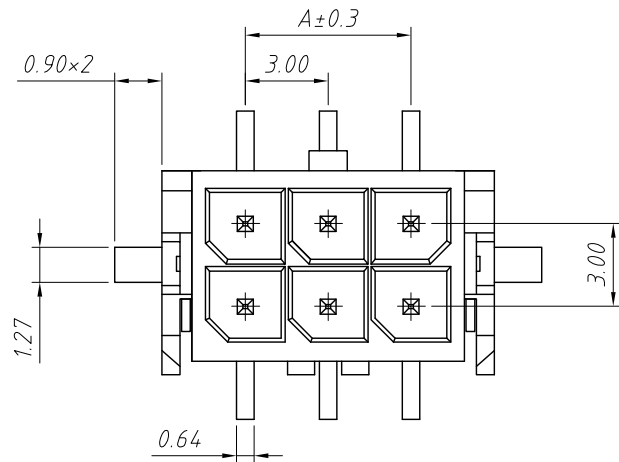
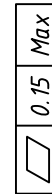
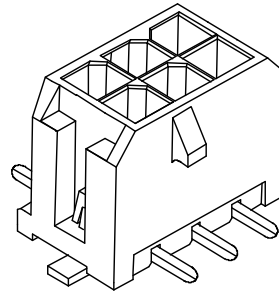
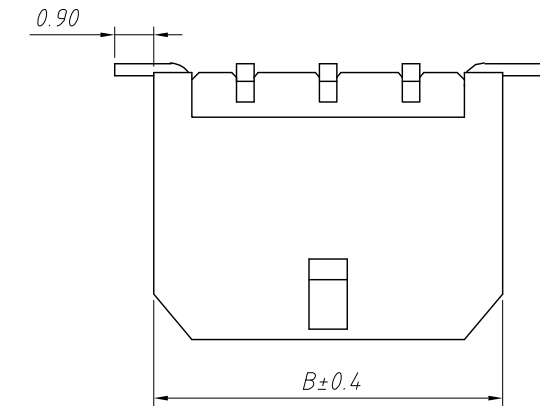
Temperature range:-25°C ~ + 85°C

Insulator Resistance:1000M Ω Min

Withstanding Voltage:1500V AC/minute

Contact Resistance:10m Ω Max

Pin	Dimensions(mm)	
	A	B
01	---	6.65
02	3.00	9.65
03	6.00	12.65
04	9.00	15.65
05	12.00	18.65
06	15.00	21.65
07	18.00	24.65
08	21.00	27.65
09	24.00	30.65
10	27.00	33.65
11	30.00	36.65
12	33.00	39.65



Order Information:

L-KLS1-XM1-3.00-2×02-VT

L: RoHS

Pitch:3.00mm

Pins:

1-Single layer

2-Double layer

XX-No. of 01~12 pins

Type:

VT / VMT-Vertical SMT Pin

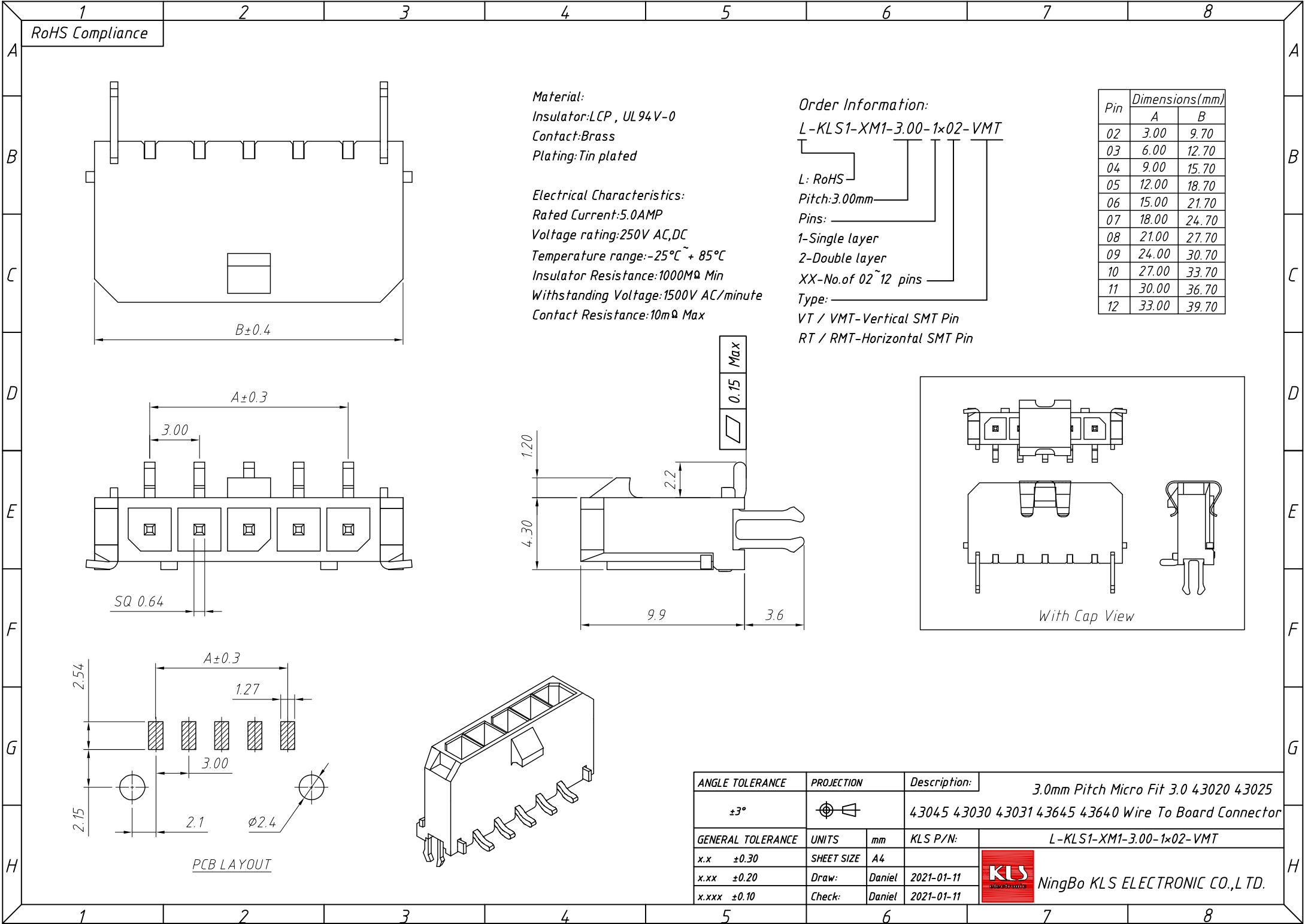
RT / RMT-Horizontal SMT Pin

WITH COVER

ANGLE TOLERANCE	PROJECTION	Description:	
±3°		3.0mm Pitch Micro Fit 3.0 43020 43025 43045 43030 43031 43645 43640 Wire To Board Connector	
GENERAL TOLERANCE	UNITS	mm	KLS P/N:
x.x ±0.30	SHEET SIZE	A4	L-KLS1-XM1-3.00-2×02-VT
x.xx ±0.20	Draw:	Daniel	2021-01-11
x.xxx ±0.10	Check:	Daniel	2021-01-11



NingBo KLS ELECTRONIC CO.,LTD.



RoHS Compliance

Material:
Insulator:LCP , UL94V-0
Contact:Brass
Plating: Tin plated

Electrical Characteristics:
Rated Current:5.0AMP
Voltage rating:250V AC,DC
Temperature range:-25°C ~ + 85°C
Insulator Resistance:1000MΩ Min
Withstanding Voltage:1500V AC/minute
Contact Resistance:10mΩ Max

Order Information:

L-KLS1-XM1-3.00-1×02-VMT

L: RoHS

Pitch:3.00mm

Pins:

1-Single layer

2-Double layer

XX-No.of 02~12 pins

Type:

VT / VMT-Vertical SMT Pin

RT / RMT-Horizontal SMT Pin

Pin	Dimensions(mm)	
	A	B
02	3.00	9.70
03	6.00	12.70
04	9.00	15.70
05	12.00	18.70
06	15.00	21.70
07	18.00	24.70
08	21.00	27.70
09	24.00	30.70
10	27.00	33.70
11	30.00	36.70
12	33.00	39.70

With Cap View

PCB LAYOUT

ANGLE TOLERANCE	PROJECTION	Description:	
±3°		3.0mm Pitch Micro Fit 3.0 43020 43025 43045 43030 43031 43645 43640 Wire To Board Connector	
GENERAL TOLERANCE	UNITS	mm	KLS P/N:
x.x ±0.30	SHEET SIZE	A4	L-KLS1-XM1-3.00-1×02-VMT
x.xx ±0.20	Draw:	Daniel	2021-01-11
x.xxx ±0.10	Check:	Daniel	2021-01-11



NingBo KLS ELECTRONIC CO.,L TD.

1
RoHS Compliance

2

3

4

5

6

7

8

A

B

C

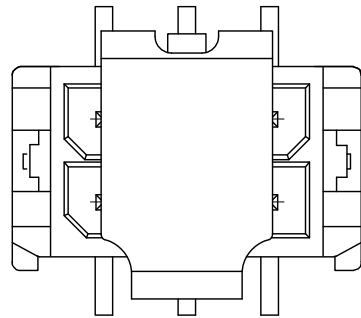
D

E

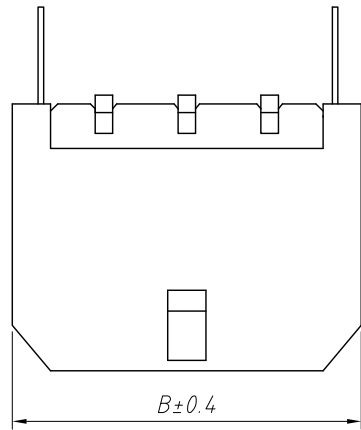
F

G

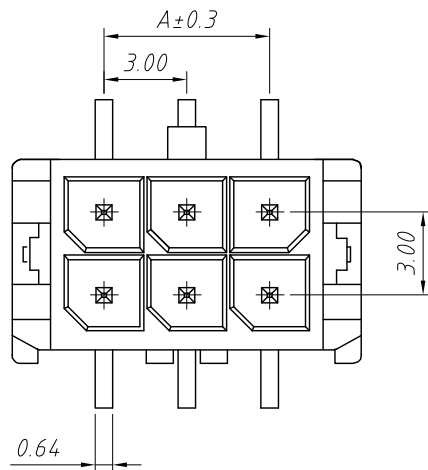
H



WITH COVER



$B \pm 0.4$



$A \pm 0.3$

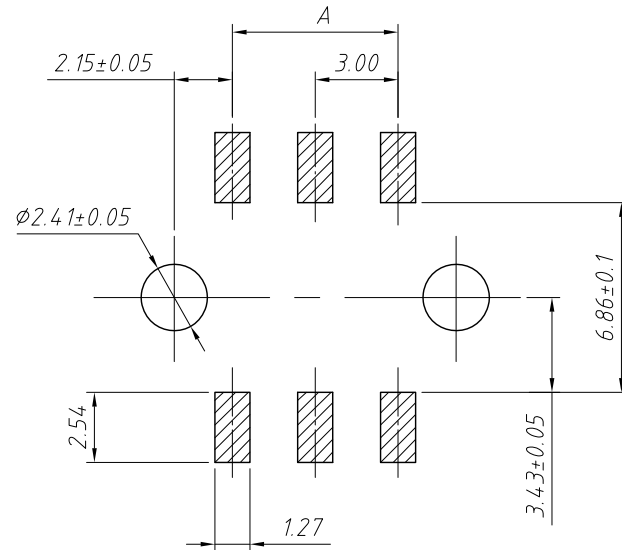
3.00

11.2

7.35 $\pm$ 0.25

9.90 $\pm$ 0.4

3.30 $\pm$ 0.3



P.C.B LAYOUT

Material:

Insulator:LCP , UL 94 V-0

Contact:Brass

Plating:Tin plated

Electrical Characteristics:

Rated Current:5.0AMP

Voltage rating:250V AC,DC

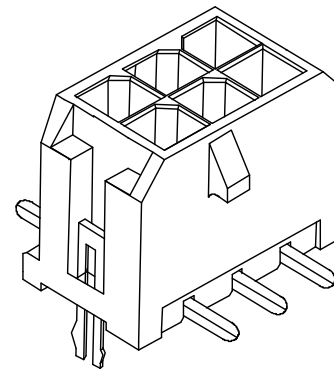
Temperature range:-25°C ~ + 85°C

Insulator Resistance:1000M Ω Min

Withstanding Voltage:1500V AC/minute

Contact Resistance:20m Ω Max

Pin	Dimensions(mm)	
	A	B
01	---	6.65
02	3.00	9.65
03	6.00	12.65
04	9.00	15.65
05	12.00	18.65
06	15.00	21.65
07	18.00	24.65
08	21.00	27.65
09	24.00	30.65
10	27.00	33.65
11	30.00	36.65
12	33.00	39.65



Order Information:

L-KLS1-XM1-3.00-2 $\times$ 02-VMT

L: RoHS

Pitch:3.00mm

Pins:

1-Single layer

2-Double layer

XX-No.of 01~12 pins

Type:

VT / VMT-Vertical SMT Pin

RT / RMT-Horizontal SMT Pin

ANGLE TOLERANCE	PROJECTION	Description:	
$\pm 3^\circ$		3.0mm Pitch Micro Fit 3.0 43020 43025 43045 43030 43031 43645 43640 Wire To Board Connector	
GENERAL TOLERANCE	UNITS	mm	KLS P/N:
x.x ± 0.30	SHEET SIZE	A4	L-KLS1-XM1-3.00-2 $\times$ 02-VMT
x.xx ± 0.20	Draw:	Daniel	2021-01-11
x.xxx ± 0.10	Check:	Daniel	2021-01-11



NingBo KLS ELECTRONIC CO.,LTD.

1
RoHS Compliance

2

3

4

5

6

7

8

A

B

C

D

E

F

G

H

A

B

C

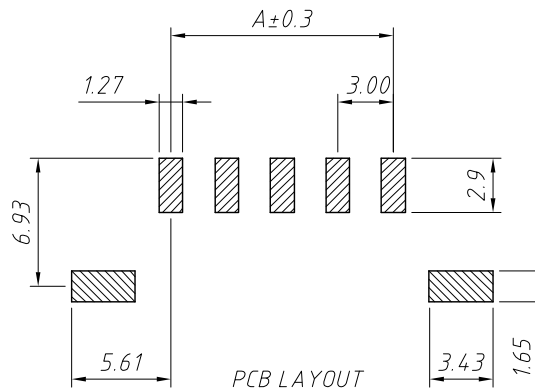
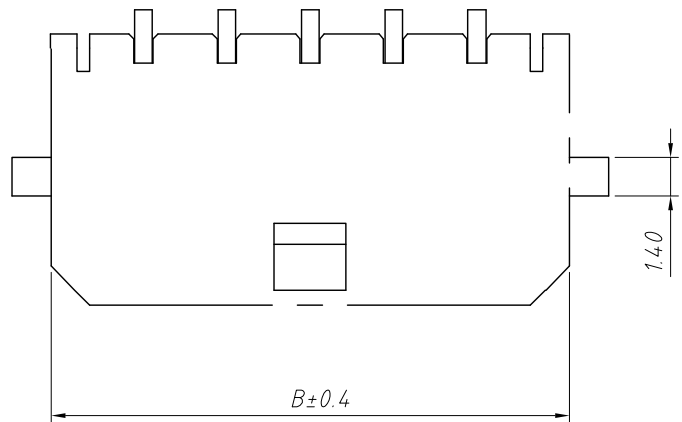
D

E

F

G

H



Material:

Insulator:LCP , UL94 V-0

Contact:Brass

Plating:Tin plated

Electrical Characteristics:

Rated Current:5.0AMP

Voltage rating:250V AC,DC

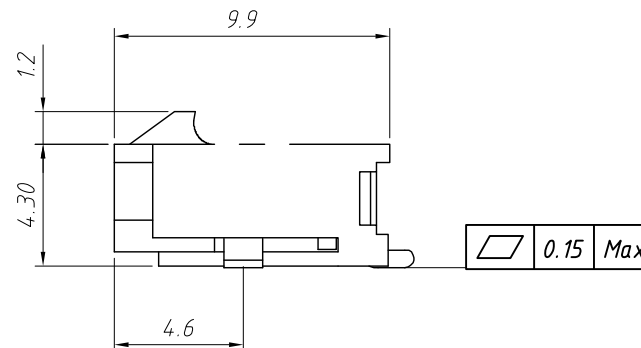
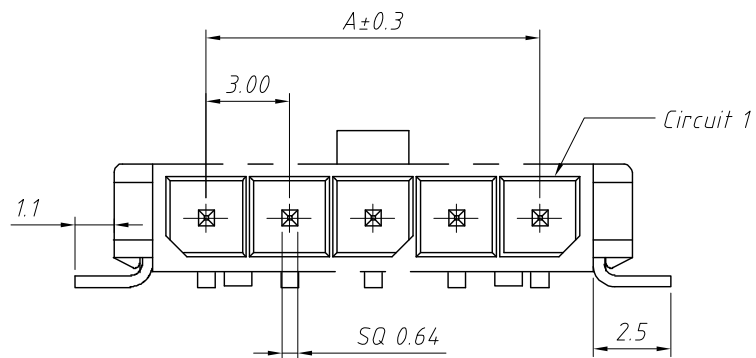
Temperature range:-25°C ~ + 85°C

Insulator Resistance:1000M Ω Min

Withstanding Voltage:1500V AC/minute

Contact Resistance:10m Ω Max

Pin	Dimensions(mm)	
	A	B
02	3.00	9.70
03	6.00	12.70
04	9.00	15.70
05	12.00	18.70
06	15.00	21.70
07	18.00	24.70
08	21.00	27.70
09	24.00	30.70
10	27.00	33.70
11	30.00	36.70
12	33.00	39.70



Order Information:

L-KLS1-XM1-3.00-1x02-RT

L: RoHS

Pitch:3.00mm

Pins: _____

1-Single layer

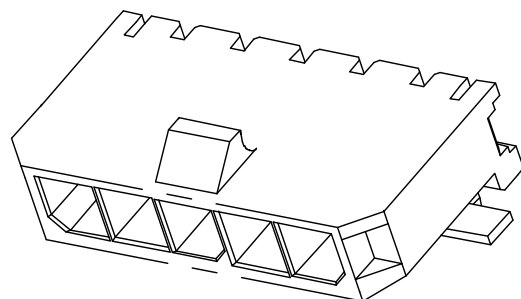
2-Double layer

XX-No.of 02~12 pins

Type: _____

VT / VMT-Vertical SMT Pin

RT / RMT-Horizontal SMT Pin

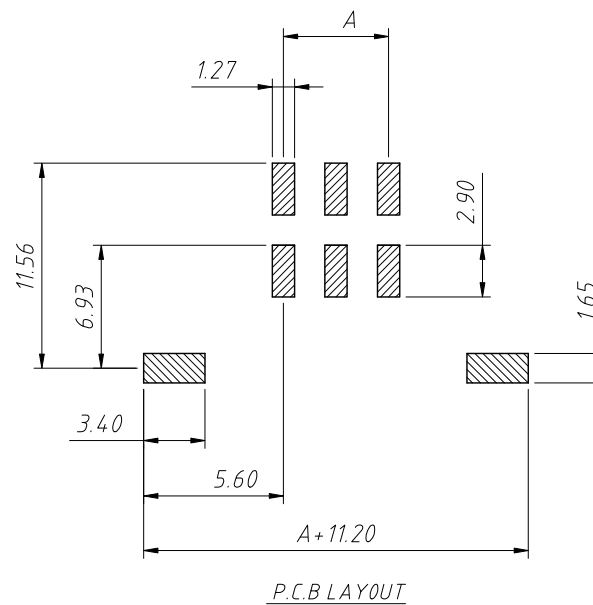
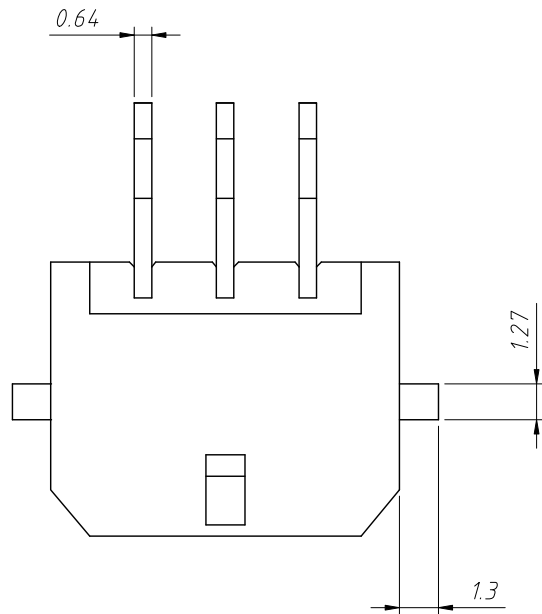


ANGLE TOLERANCE	PROJECTION	Description:	
$\pm 3^\circ$		3.0mm Pitch Micro Fit 3.0 43020 43025 43045 43030 43031 43645 43640 Wire To Board Connector	
GENERAL TOLERANCE	UNITS	mm	KLS P/N:
x.x ± 0.30	SHEET SIZE	A4	L-KLS1-XM1-3.00-1x02-RT
x.xx ± 0.20	Draw:	Daniel	2021-01-11
x.xxx ± 0.10	Check:	Daniel	2021-01-11



NingBo KLS ELECTRONIC CO.,LTD.

RoHS Compliance



Material:

Insulator:LCP , UL94V-0

Contact:Brass

Plating:Tin plated

Electrical Characteristics:

Rated Current:5.0AMP

Voltage rating:250V AC,DC

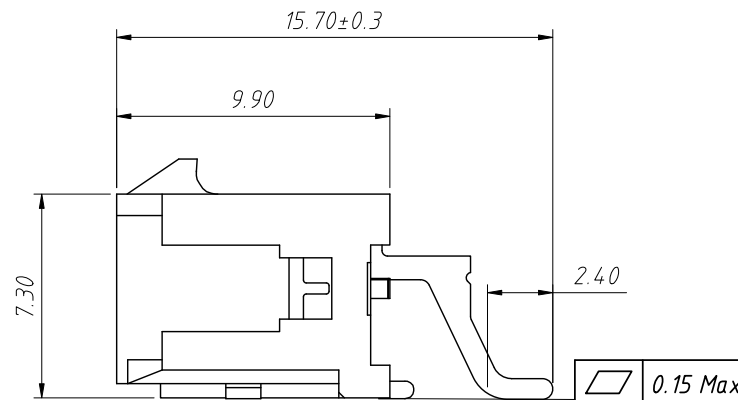
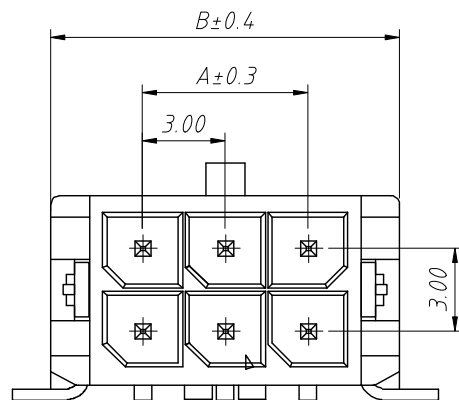
Temperature range:-25°C ~ + 85°C

Insulator Resistance:1000M Ω Min

Withstanding Voltage:1500V AC/minute

Contact Resistance:10m Ω Max

Pin	Dimensions(mm)	
	A	B
01	---	6.65
02	3.00	9.65
03	6.00	12.65
04	9.00	15.65
05	12.00	18.65
06	15.00	21.65
07	18.00	24.65
08	21.00	27.65
09	24.00	30.65
10	27.00	33.65
11	30.00	36.65
12	33.00	39.65



Order Information:

L-KLS1-XM1-3.00-2×02-RT

L: RoHS

Pitch:3.00mm

Pins: _____

1-Single layer

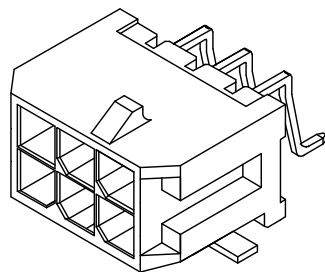
2-Double layer

XX-No.of 01~12 pins _____

Type: _____

VT / VMT-Vertical SMT Pin

RT / RMT-Horizontal SMT Pin



ANGLE TOLERANCE	PROJECTION	Description:	
±3°		3.0mm Pitch Micro Fit 3.0 43020 43025 43045 43030 43031 43645 43640 Wire To Board Connector	
GENERAL TOLERANCE	UNITS	mm	KLS P/N:
x.x ±0.30	SHEET SIZE	A4	L-KLS1-XM1-3.00-2×02-RT
x.xx ±0.20	Draw:	Daniel	2021-01-11
x.xxx ±0.10	Check:	Daniel	2021-01-11



NingBo KLS ELECTRONIC CO.,LTD.

1
RoHS Compliance

2

3

4

5

6

7

8

A

B

C

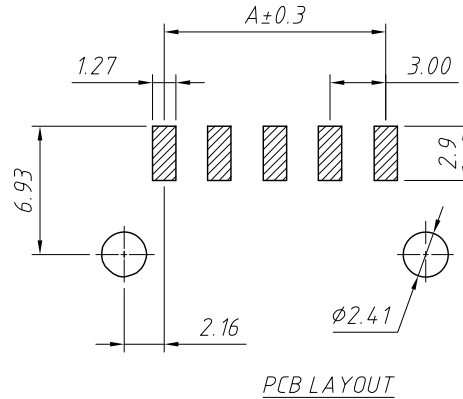
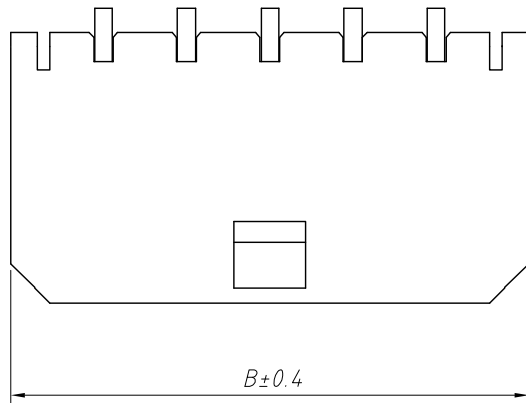
D

E

F

G

H



Material:

Insulator:LCP , UL 94 V-0

Contact:Brass

Plating: Tin plated

Electrical Characteristics:

Rated Current:5.0AMP

Voltage rating:250V AC,DC

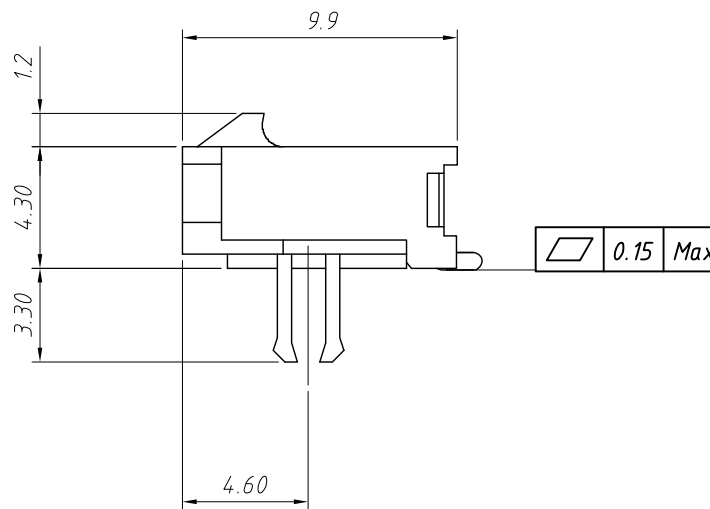
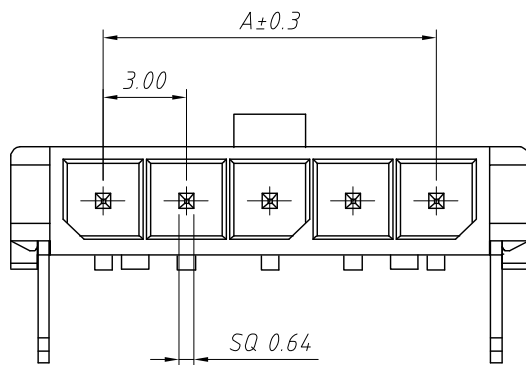
Temperature range:-25°C ~ + 85°C

Insulator Resistance:1000MΩ Min

Withstanding Voltage:1500V AC/minute

Contact Resistance:10mΩ Max

Pin	Dimensions(mm)	
	A	B
02	3.00	9.70
03	6.00	12.70
04	9.00	15.70
05	12.00	18.70
06	15.00	21.70
07	18.00	24.70
08	21.00	27.70
09	24.00	30.70
10	27.00	33.70
11	30.00	36.70
12	33.00	39.70



Order Information:

L-KLS1-XM1-3.00-1×02-RMT

L: RoHS

Pitch:3.00mm

Pins:

1-Single layer

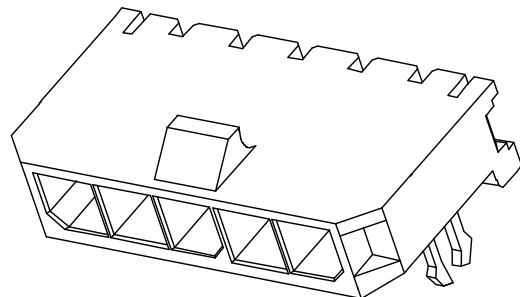
2-Double layer

XX-No.of 02~12 pins

Type:

VT / VMT-Vertical SMT Pin

RT / RMT-Horizontal SMT Pin



ANGLE TOLERANCE	PROJECTION		Description:	
±3°			3.0mm Pitch Micro Fit 3.0 43020 43025 43045 43030 43031 43645 43640 Wire To Board Connector	
GENERAL TOLERANCE	UNITS	mm	KLS P/N:	L-KLS1-XM1-3.00-1×02-RMT
x.x ±0.30	SHEET SIZE	A4		
x.xx ±0.20	Draw:	Daniel	2021-01-11	NingBo KLS ELECTRONIC CO.,L TD.
x.xxx ±0.10	Check:	Daniel	2021-01-11	

1
RoHS Compliance

2

3

4

5

6

7

8

A

B

C

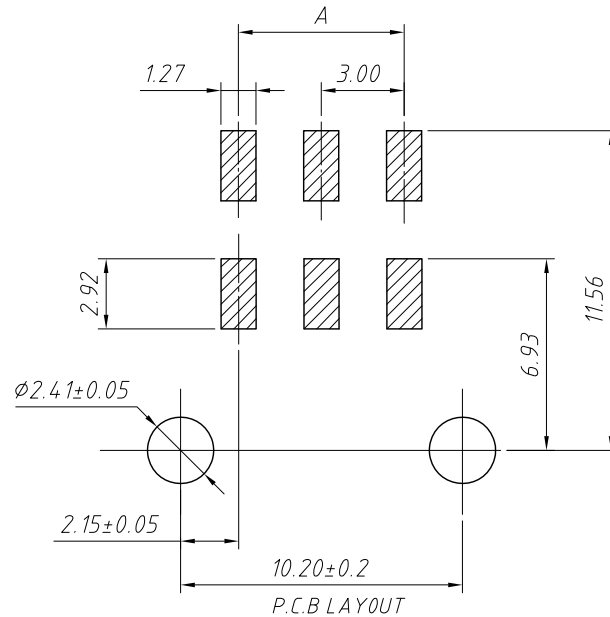
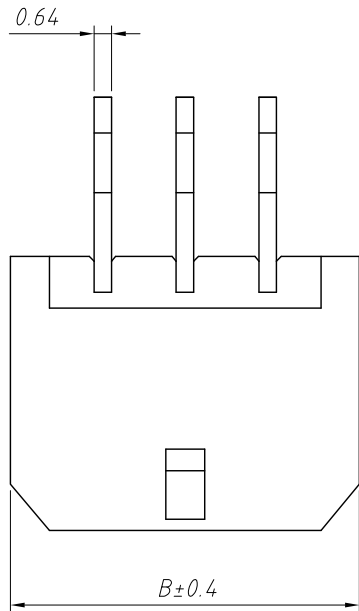
D

E

F

G

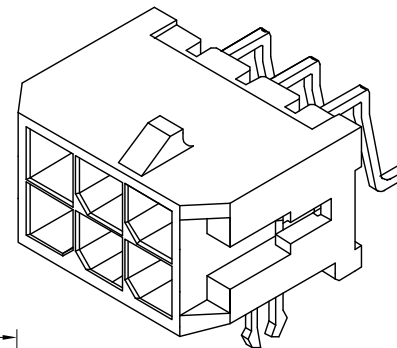
H



Material:
Insulator:LCP , UL94V-0
Contact:Brass,Tin plated

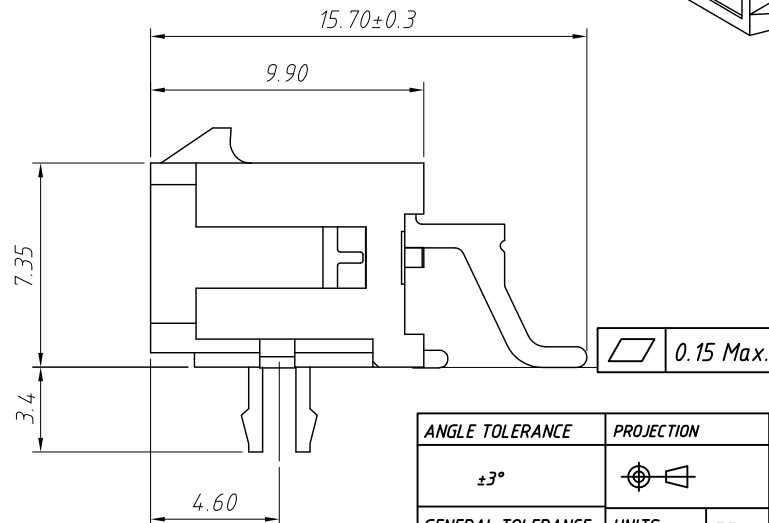
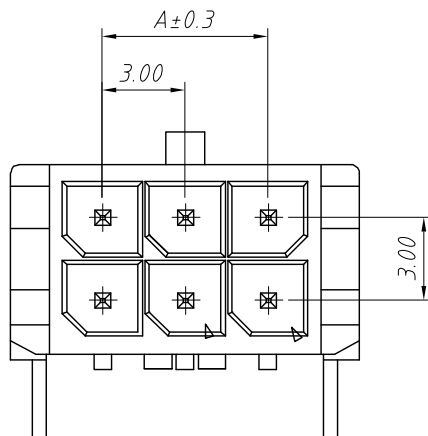
Electrical Characteristics:
Rated Current:5.0AMP
Voltage rating:250V AC,DC
Temperature range:-25°C ~ + 85°C
Insulator Resistance:1000M Ω Min
Withstanding Voltage:1500V AC/minute
Contact Resistance:10m Ω Max

Pin	Dimensions(mm)	
	A	B
01	---	6.65
02	3.00	9.65
03	6.00	12.65
04	9.00	15.65
05	12.00	18.65
06	15.00	21.65
07	18.00	24.65
08	21.00	27.65
09	24.00	30.65
10	27.00	33.65
11	30.00	36.65
12	33.00	39.65



Order Information:
L-KLS1-XM1-3.00-2×02-RMT

L: RoHS
Pitch:3.00mm
Pins:
1-Single layer
2-Double layer
XX-No.of 01~12 pins
Type:
VT / VMT-Vertical SMT Pin
RT / RMT-Horizontal SMT Pin



ANGLE TOLERANCE		PROJECTION		Description:	
$\pm 3^\circ$				3.0mm Pitch Micro Fit 3.0 43020 43025 43045 43030 43031 43645 43640 Wire To Board Connector	
GENERAL TOLERANCE		UNITS	mm	KLS P/N:	L-KLS1-XM1-3.00-2×02-RMT
x.x		± 0.30			
x.xx		± 0.20			
x.xxx		± 0.10			
		SHEET SIZE	A4		
		Draw:	Daniel	2021-01-11	
		Check:	Daniel	2021-01-11	



NingBo KLS ELECTRONIC CO.,L TD.