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RoHS Compliance

REV	SYM	Revision Record	Appr.	Date
V0	KL S01019	New Version Release	WuHao	2025-12-04

Notes:
Material:
Shell: Zinc Alloy, Nickel Plated
Insert: Bakelite
Contact: Copper, Gold Plated

Coupling: Threaded Coupling
Termination: Solder
Insertion Frequency: 500 times
Temperature Range: -20°C ~ +85°C
Cable Diameter: ≤φ5.0mm

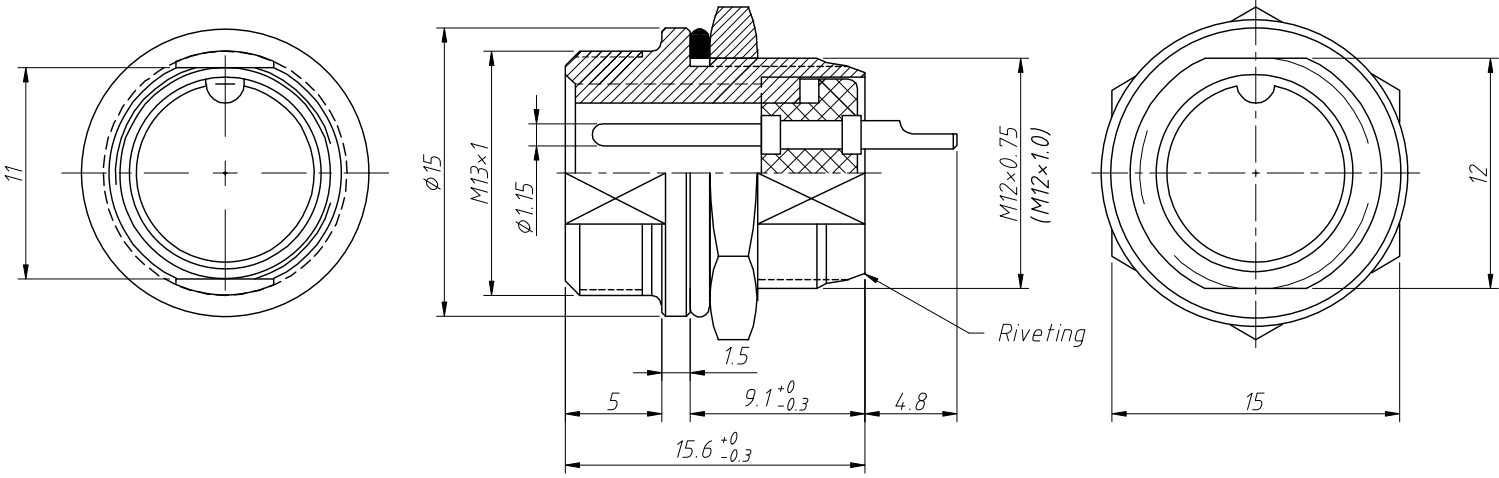
Order Information
L-KL S15-225-M12-X F2

RoHS
Pos No.
M12 Shell Size
Number of Pins(2~7)
F2-Docking Plug Pin

Pin	2	3	4	5	6	7
Current Reted	5A	5A	5A	5A	5A	5A
Voltage Rated	125V	125V	125V	125V	125V	125V
Operation Limit Voltage	200	200	200	200	200	200
Withstanding Voltage	1500	1500	1500	1500	1500	1500
Insulation Resistance	1500	1500	1500	1500	1500	1500
Contact Resistance	5	5	5	5	5	5
Solder Cup Mouth Aperture	0.8	0.8	0.8	0.8	0.8	0.8
Solder Inter Diameter	1.2	1.2	1.2	1.2	1.2	1.2

ANGLE TOLERANCE	PROJECTION	Description:
±3°		M12 Circular Power Connectors
GENERAL TOLERANCE	UNITS	mm
x.x ±0.30	SHEET SIZE	A4
x.xx ±0.20	Draw:	WuHao 2025-12-04
x.xxx ±0.10	Check:	Daniel 2025-12-04

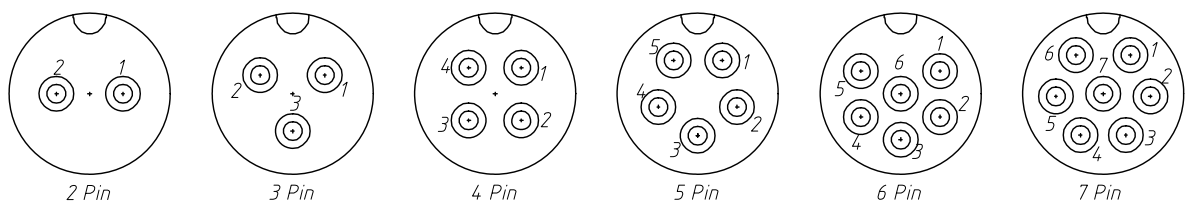
NingBo KLS ELECTRONIC CO.,L TD.



Material:
Needle Holder: Bakelite
Spring Washer: 304 Stainless Steel
M13x1 Hex Nut: Brass (59-1)
Shell: Zinc Alloy

Electric:
Rated Voltage: 125V DC
Rated Current: 5A
Clearance Operation Voltage: 200V AC
Dielectric Strength: 1500V
Contact Resistance: 5 mΩ Max
Insulator Resistance: 1500 mΩ Min
Contact Diameter: Ø1.15

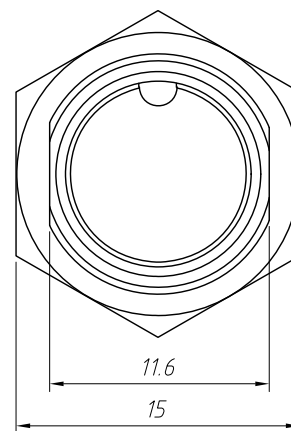
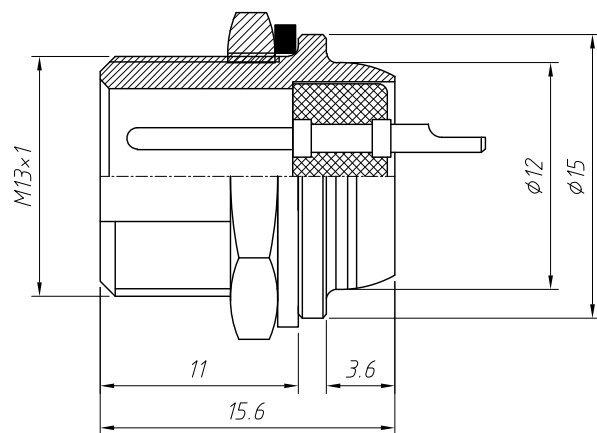
Front Of Needle Position



Order Information:
L-KLS15-225-M12-5 M1-(A)
L: RoHS
Dental regulations: M12
XX-No. of Contacts
Type Ordering:
Blank: M12x0.75 A-M12x1.0

- Technical requirements:
- 1.The appearance is smooth without any defects,and the contact body meets the design requirements.After final assembly, it meets the design requirements of the drawings, and the parts must not be placed in small quantities or disorderly
 - 2.All threaded parts should be smooth and smooth without any jamming phenomenon
 - 3.Plastic parts must be installed well with the contact body,
 - 4.There should be no phenomenon of detachment due to arbitrary pulling
 - 5.It is necessary to ensure that the plug life is more than 500 times,and the plug and pull force must meet the design requirements Can be used within the range of -20℃ ~ +125℃

ANGLE TOLERANCE		PROJECTION		Description:	
±3°				M12 Circular Connector	
GENERAL TOLERANCE		UNITS	mm	KLS P/N:	
x.x ±0.30		SHEET SIZE	A4	L-KLS15-225-M12-XM1-(A)	
x.xx ±0.20		Draw:	Song	NingBo KLS ELECTRONIC CO.,L TD.	
x.xxx ±0.10		Check:	Daniel		



Notes:

Material:

Shell: Zinc Alloy, Nickel Plated

Insert: Bakelite

Contact: Copper, Gold Plated

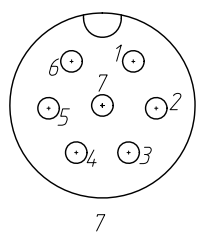
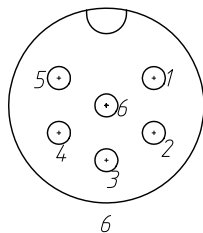
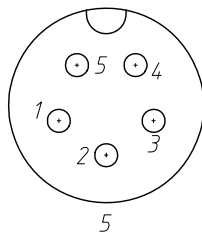
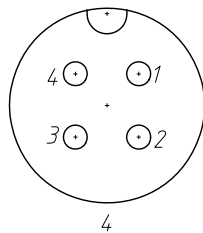
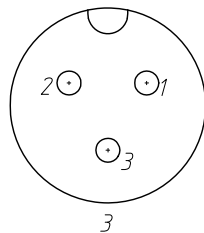
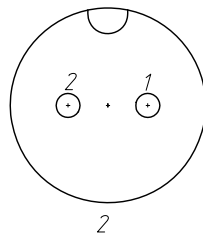
Coupling: Threaded Coupling

Termination:Solder

Insertion Frequency: 500 times

Temperature Range: $-20^{\circ}\text{C} \sim +85^{\circ}\text{C}$

Cable Diameter: $\leq \phi 5.0\text{mm}$



Order Information

L-KLS15-225-M12-X M2

RoHS—

Pos No.

M12 Shell Size.

Number of Pins(2^7)

M2: Through-Wall-

Receptacle Pin

<i>Pin</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>
<i>Current Reted</i>	<i>5A</i>	<i>5A</i>	<i>5A</i>	<i>5A</i>	<i>5A</i>	<i>5A</i>
<i>Voltage Rated</i>	<i>125V</i>	<i>125V</i>	<i>125V</i>	<i>125V</i>	<i>125V</i>	<i>125V</i>
<i>Operation Limit Voltage</i>	<i>200</i>	<i>200</i>	<i>200</i>	<i>200</i>	<i>200</i>	<i>200</i>
<i>Withstanding Voltage</i>	<i>1500</i>	<i>1500</i>	<i>1500</i>	<i>1500</i>	<i>1500</i>	<i>1500</i>
<i>Insulation Resistance</i>	<i>1500</i>	<i>1500</i>	<i>1500</i>	<i>1500</i>	<i>1500</i>	<i>1500</i>
<i>Contact Resistance</i>	<i>5</i>	<i>5</i>	<i>5</i>	<i>5</i>	<i>5</i>	<i>5</i>
<i>Solder Cup Mouth Aperture</i>	<i>0.8</i>	<i>0.8</i>	<i>0.8</i>	<i>0.8</i>	<i>0.8</i>	<i>0.8</i>
<i>Solder Inter Diameter</i>	<i>1.2</i>	<i>1.2</i>	<i>1.2</i>	<i>1.2</i>	<i>1.2</i>	<i>1.2</i>

ANGLE TOLERANCE		PROJECTION		Description:		M12 Circular Power Connectors
±3°						
GENERAL TOLERANCE		UNITS	mm	KLS P/N:	L-KLS15-225-M12-XM2	
x.x	±0.30	SHEET SIZE	A4			NingBo KLS ELECTRONIC CO.,LTD.
x.xx	±0.20	Draw:	WuHao	2025-12-04		
x.xxx	±0.10	Check:	Daniel	2025-12-04		