WORLD CLASS CONNECTOR COMPANY

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Automotive Connector

GROWTH COMPANY MAKING the FUTURE





History

Vietnam Thai Nguyen AD factory completion	2023	
	2020	 Approved Magneti Marelli supplier (020 D / 020 D C Series)
Approved HKMC supplier (020D / 025 D Series)	2021	, , , , , , , , , , , , , , , , , , , ,
	2018	 Achieved IATF 16949
Supplied PCB SLOT Series Supplied 015 Series	2017	
	2015	 Supplied 020 S Series Supplied 025 Series
Established Factory at Vietnam	2014	
	2013	 Supplied 020 Series Supplied to Fujikura
Achieved Hyundai-Kia Motors SQ Achieved ISO / TS 16949:2009	2012	
	2011	 Set up Automotive Division
Established Plant at Hwaseong	2010	
	2008	 Set up FFC Division
The KOSDAQ listing Achieved ISO 140001:2004	2004	
	2002	 Established Factory at China
Started LG business	1998	
	1997	 Started Samsung business
Founded	1993	



HQ(Hwaseong)

61, 532beon-gil, chorog-ro, yanggam-myun, hwaseong-city, gyeonggi-do, 18627, KOREA



Ansan Plant

Address: 342, byeolmangno, Danwon-gu, Ansan-si, Gyeonggi-do, Korea





Vietnam Plant

Address : No.55, Lot CN 12, Khai Quang I.Z, VinhYen, Vinh Phuc Province, Viet Nam



Qingdao Plant

Address: Yuhuanging Gongyeyuan, Xiazhuangjeado, Chengyangqu, Qingdao Shandong China





Shanghai Sales Office

Rm 1105, Jiazheng International Building No.28, Moyu Road, Jiading District, Shanghai, China



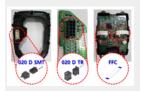
ShenZhen & Taiwan Sales Office

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UJU Products Portfolio

INDICATOR CONTROL PCB



ROOM MIRROR (ETCS)



LED REAR LIGHT





LED HEAD LIGHT

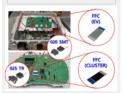


SWITCH



INVERTER





015(0.40mm) Series

SMT TYPE

- **Application**► Multi-Function Switch
- ➤ Steering Wheel Remote Control
 ➤ Side Mirror

Characteristic

- ▶ Light and Miniature
- ► Compact design and Smaller Size



- ▶ The blade width of male Terminal for this connector is 0.015 inch (0.4mm)
- ➤ The terminal pitch of this connector is 1.5mm
 ➤ This is small SMT connector that meets the requirement of the vehicle environment
- ► This is a unique connector for 0.015 inch(0.4mm) in the Korea that meets the Automotive Specifications
 ► Reliability Test Specification : ES91500-03

Specifications

Current Rating	Contact Resistance	Insulation Resistance	Dielectric strength	Temperature Range	
3A	30mΩ (Max.)	100MΩ (Min.)	AC 500V	-40°C ~ 85°C	

Female Housing

Materials

PA9T-GF33		33		PA66-GF30	36-GF30		Copper Alloy		
							● Tin ● A		
Pin	Item	Туре	Male PN.	Size (mm) (W x H x L)		Female PN.	Size (mm) (W x H x L)		
							● Tin ● Au		
Pin	Item	Туре	Male PN.	Size(mm) (WxHxL)	Item	Female PN.	Size(mm) (WxHxL)		
	(Alexandra)								

2P	M	Vertical	KH1600053-xx	5.92 x 2.85 x 5.8		KH1600051-xx	5.0 x 2.85 x 5.45
3P	M	Vertical	KH1600057-xx	7.42 x 2.85 x 5.8	1	KH1600052-xx	6.5 x 2.85 x 5.45



D 4 N	Di	mension (mm)	Tab Width	pl d	Applicable
Part No.	W	Н	L	(mm)	Plating	Wire Range
KH1600050-21 (Female)	0.96	1.12	4.88	0.4	Tin	0.22 mm²

● Tin ● Au

020 S BL(0.50mm) Series

SMT TYPE

S : Small BL : Blistering Less

Application ▶ Headlight

- ▶ Rear Combination Light
- ▶ Daytime Running Light
- ▶ Side Mirror

- Characteristic

 ▶ Light and Miniature
- ▶ Process for easy mating ► Compact Size and Good contact



- ▶ The blade width of male Terminal for this Connector is 0.020 inch (0.5mm)
- ▶ The terminal pitch of this connector is 2.0mm
- ▶ This product is smaller than 020 Series and excellent space utilization
- ▶ Reliability Test Specifications : ES91500-03, GMW3191

Specifications

Current Rating	Contact Resistance	Insulation Resistance	Dielectric strength	Temperature Range
3A	30mΩ (Max.)	100MΩ (Min.)	AC 1kV	-40°C ~ 125°C

Materials

Male Housing	Female Housing	Terminal
PA9T-GF30	PA66-GF15	Copper Alloy



Terminal



Don't Ma			Difficusion (iiiii)			Plating	Applicable	
ı	Part No.	W	Н	L	(mm)	Flating	Wire Range	
	KH1400004-21 (Female)	1.5	1.9	7.8	0.5	Tin	0.22 ~ 0.5 mm²	
	KH1400004-31 (Female)	1.5	1.9	7.8	0.5	Au	0.22 ~ 0.5 mm²	

020 S BL(0.50mm) Series

SMT TYPE

S : Small BL : Blistering Less

							● Tin ● Au
Pin	Item	Туре	Male PN.	Size (mm) (W x H x L)	Item	Female PN.	Size (mm) (W x H x L)
2P	10	Horizontal	KH1700138-xx	8.2 x 6.8 x 10.9		KH1400047-xx	6.0 x 6.4 x 9.1
21		Vertical	KH1700126-xx	8.4 x 9.7 x 7.9		KH 1400047-XX	0.0 X 0.4 X 9.1
3P	-	Horizontal	KH1700140-xx	10.2 x 6.8 x 10.9		KH1400048-xx	8.0 x 6.4 x 9.1
		Vertical	KH1700128-xx	10.4 x 9.7 x 7.9			
4P		Horizontal	KH1700142-xx KH1800019-xx	12.2 x 6.8 x 10.9		KH1400049-xx	10 x 6.4 x 9.1
		Vertical	KH1700130-xx	12.4 x 9.7 x 7.9			
5P		Horizontal	KH1700144-xx KH1800020-xx	14.2 x 6.8 x 10.9		KH1500004-xx	12 x 6.4 x 9.1
	-	Vertical	KH1700132-xx KH1800014-xx	14.4 x 9.7 x 7.9			
6P		Horizontal	KH1700146-xx KH1800021-xx	16.2 x 6.8 x 10.9		KH1400069-xx	14 x 6.4 x 9.1
OI.		Vertical	KH1700134-xx KH1800015-xx	16.4 x 9.7 x 7.9	1	K111400003 XX	14 % 0.4 % 3.1
7P		Horizontal	KH1700148-xx KH1800022-xx	18.2 x 6.8 x 10.9	-	KH1600005-xx	16 x 6.4 x 9.1
8P		Horizontal	KH1700150-xx KH1800023-xx	20.2 x 6.8 x 10.9		KH1400070-xx	18 x 6.4 x 9.1
OI .		Vertical	KH1700136-xx	20.4 x 9.7 x 7.9		KITI-400070 XX	10 X 0.4 X 3.1
9P		Horizontal	KH1700152-xx KH1800024-xx	22.2 x 6.8 x 10.9		KH1600006-xx	20 x 6.4 x 9.1
10P		Horizontal	KH1700016-xx KH1800033-xx	24.2 x 6.8 x 10.9		KH1700015-xx	22 x 6.4 x 9.1
101	-	Vertical	KH1700018-xx	24.4 x 9.7 x 7.9			LL A 0.T A 3.1
12P	A STATE OF THE STA	Horizontal	KH1800112-xx	28.2 x 6.8 x 10.9		KH1800111-xx	26 x 6.4 x 9.1

020(0.50mm) Series **SMT TYPE**

Application ▶ Headlight

- Rear Combination Light
 Daytime Running Light
 Side Mirror

- Characteristic

 ▶ Light and Miniature
- Process for easy mating
 Compact Size and Good contact



- ▶ The blade width of male Terminal for this Connector is 0.020 inch (0.5mm)
- The terminal pitch of this connector is 2.0mm

 Reliability Test Specifications: ES91500-03, GMW3191

Specifications

Current Rating	Contact Resistance	Insulation Resistance	Dielectric strength	Temperature Range
3A	30mΩ (Max.)	100MΩ (Min.)	AC 1kV	-40°C ~ 125°C

Materials

Male Housing	Female Housing	Terminal
LCP-GF/MF35	PBT-GF10	Copper Alloy



Terminal



Part No.	Dii	mension (mm)	Tab Width	Plating	Applicable	
Part No.	W	Н	L	(mm)	Plating	Wire Range	
KH1200030-21 (Female)	1.5	1.6	10.2	0.5	Tin	0.3 ~ 0.35 mm²	
KH1200030-22 (Female)	1.5	1.6	10.2	0.5	Tin	0.5 mm²	
KH1200030-31 (Female)	1.5	1.6	10.2	0.5	Au	0.3~ 0.35 mm²	

020(0.50mm) Series

SMT TYPE

							● Tin ● Au
Pin	ltem	Туре	Male PN.	Size (mm) (W x H x L)	Item	Female PN.	Size (mm) (W x H x L)
2P	1	Horizontal	KH1200007-xx KH1700020-xx	8.0 x 7.2 x 13.2	4	KH1200012-xx	7.9 x 7.0 x 12.4
21		Vertical	KH1300001-xx KH1700001-xx	8.5 x 8.5 x 12.2		KH1200012-XX	7.9 X 7.0 X 12.4
3P	1	Horizontal	KH1200013-xx KH1700021-xx	10 x 7.2 x 13.2	_	KH1200015-xx	9.9 x 7.0 x 12.4
3F		Vertical	KH1200025-xx KH1700002-xx	10.5 x 8.5 x 12.2		KH1200013-XX	5.5 X 7.0 X 12.4
4P		Horizontal	KH1200016-xx KH1700022-xx	12 x 7.2 x 13.2	_	KH1200018-xx	9.9 x 7.0 x 12.4
1		Vertical	KH1300004-xx KH1700003-xx	12.5 x 8.5 x 12.2		KI11200010-XX	3.3 A 1.0 A 12.4
6P		Horizontal	KH1200019-xx KH1700023-xx	16 x 7.2 x 13.2		KH1200021-xx	13.9 x 7.0 x 12.4
	my de	Vertical	KH1300006-xx KH1700004-xx	16.5 x 8.5 x 12.2		KITEGOZI XX	15.5 % 7.6 % 12.4
8P		Horizontal	KH1200022-xx KH1700024-xx	20 x 7.2 x 13.2		KH1200024-xx	17.9 x 7.0 x 12.4
or	The state of the s	Vertical	KH1300008-xx KH1700005-xx	20.5 x 8.5 x 12.2	_	- NП I ZUUUZ4-XX	17.9 X 7.0 X 12.4
9P		Horizontal	KH1400001-xx KH1700025-xx	22 x 7.2 13.2		KH1400003-xx	19.9 x 7.0 x 12.4

020 D(0.50mm) Series

SMT TYPE

D : Double Lock

Application ▶ Headlight

- ▶ Rear Combination Light ▶ Daytime Running Light

- Characteristic

 ▶ Light and Miniature
- ▶ Process for easy mating ► Compact Size and Good contact
- ▶ Easy handle the secondary lock



- ▶ The blade width of male Terminal for this Connector is 0.020 inch (0.5mm)
- ▶ The terminal pitch of this connector is 2.0mm
- It has applied the TPA of side type for the assemble workability
 This product is similar size with 020 Series even included the mounted TPA
- ▶ Pre-assembled TPA for secondary lock
- ▶ Reliability Test Specification : ES91500-00, ES91500-03

Specifications

Current Rating	Contact Resistance	Insulation Resistance	Dielectric strength	Temperature Range
5A	30mΩ (Max.)	100MΩ (Min.)	AC 1kV	-40℃ ~ 125℃

Materials

Male Housing	Female Housing	Terminal
PA9T-GF30	PBT-GF10	Copper Alloy



Don't Ma	Di	Dimension (mm)				Applicable
Part No.	W	Н	L	(mm)	Plating	Wire Range
KH1700007-20 (Female)	1.5	1.6	10.2	0.5	Tin	0.22 mm²
KH1700007-22 (Female)	1.5	1.6	10.2	0.5	Tin	0.3 ~ 0.5 mm²
KH1700007-30 (Female)	1.5	1.6	10.2	0.5	Au	0.22 mm²
KH1700007-32 (Female)	1.5	1.6	10.2	0.5	Au	0.3 ~ 0.5 mm²

020 D(0.50mm) Series

SMT TYPE

D : Double Lock



							• IIII • Au
Pin	ltem	Туре	Male PN.	Size (mm) (W x H x L)	ltem	Female PN.	Size (mm) (W x H x L)
2P		Horizontal	KH1700110-xx KH2100108-xx	8.0 x 7.2 x 13.2		KH1700098-xx	5.9 x 7.3 x 12.6
3P	1	Horizontal	KH1700112-xx KH2100109-xx	10 x 7.2 x 13.2		KH1700101-xx	7.9 x 7.3 x 12.6
J.		Vertical	KH1800081-xx KH2100116-xx	10.5 x 8.5 x 12.2		ALTITUDE TO TAX	7.5 X 7.5 X 12.0
4P	-	Horizontal	KH1700114-xx KH2100110-xx	12 x 7.2 x 13.2	di)	KH1700104-xx	9.9 x 7.3 x 12.6
		Vertical	KH1800083-xx KH2100117-xx	12.5 x 8.5 x12.2		, KITT GOTOT XX	3.3 X 7.3 X 12.0
5P		Horizontal	KH1800097-xx KH2100111-xx	14 x 7.2 x 13.2		KH1800066-xx	11.9 x 7.3 x 12.6
J.		Vertical	KH1800085-xx KH2100118-xx	14.5 x 8.5 x 12.2		KITTOGGGGG XX	11.5 % 1.5 % 1.2.6
6P		Horizontal	KH1700116-xx KH2100112-xx	16 x 7.2 x 13.2	<i>**</i>	KH1700107-xx	13.9 x 7.3 x 12.6
or		Vertical	KH1800087-xx KH2100119-xx	16.5 x 8.5 x 12.2		K111700107-XX	13.3 % 7.3 % 12.0
7P		Horizontal	KH1800099-xx KH2100113-xx	18 x 7.2 x 13.2		KH1800069-xx	15.9 x 7.3 x 12.6
71		Vertical	KH1800089-xx KH2100120-xx	18.5 x 8.5 x 12.2		K111000003-XX	13.3 % 7.3 % 12.0
8P	Many!	Horizontal	KH1800101-xx KH2100114-xx	20 x 7.2 x13.2		KH1800072-xx	17.9 x 7.3 x 12.6
Or		Vertical	KH1800091-xx KH2100121-xx	20.5 x 8.5 x 12.2		K111000072-XX	17.5 % 7.5 % 12.0
10P		Horizontal	KH1800103-xx KH2100115-xx	22 x 7.2 x13.2		KH1800025-xx	21.9 x 7.3 x 12.6
TUP		Vertical	KH1800028-xx KH2100122-xx	24.5 x 8.5 x 12.2		K111000023-XX	21.3 X 1.3 X 12.0
12P		Vertical	KH1800093-xx KH2100123-xx	28.5 x 8.5 x 12.2		KH1800075-xx	25.9 x 7.3 x 12.6
15P		Vertical	KH1800095-xx KH2100124-xx	34.5 x 8.5 x 12.2		KH1800078-xx	31.9 x 7.3 x 12.6

020 D G(0.50mm) Series

SMT TYPE

D : Double Lock

● Tin ● Au

Application ► Headlight

- ▶ Rear Combination Light ▶ Daytime Running Light

- Characteristic

 ▶ Light and Miniature
- ▶ Process for easy mating ► Compact Size and Good contact
- ▶ Easy handle the secondary lock



- ▶ The blade width of male Terminal for this Connector is 0.020 inch (0.5mm)
- ▶ The terminal pitch of this connector is 2.0mm
- It has applied the TPA of side type for the assemble workability
 This product is similar size with 020 Series even included the mounted TPA
- ▶ Pre-assembled TPA for secondary lock
- ▶ Reliability Test Specification : LV214, USCAR-2

Specifications

Current Rating	Contact Resistance	Insulation Resistance	Dielectric strength	Temperature Range
5A	30mΩ (Max.)	100MΩ (Min.)	AC 1kV	-40°C ~ 125°C

Materials

Male Housing	Female Housing	Terminal		
PA9T-GF30	PBT-GF10	Copper Alloy		





Doub No.	Dimension (mm)			Tab Width		Applicable
Part No.	W	Н	L	(mm)	Plating	Wire Range
KH1710007-22 (Female)	1.5	1.6	10.2	0.5	Tin	0.3 ~ 0.5 mm²
KH1710007-32 (Female)	1.5	1.6	10.2	0.5	Au	0.3 ~ 0.5 mm²

020 D G(0.50mm) Series

SMT TYPE

D : Double Lock

							● Tin ● Au
Pin	ltem	Туре	Male PN.	Size (mm) (W x H x L)	ltem	Female PN.	Size (mm) (W x H x L)
2P		Horizontal	KH1710110-xx KH2110108-xx	8.0 x 7.2 x 13.2	-	KH1710098-xx	5.9 x 7.3 x 12.6
3P		Horizontal Vertical	KH1710112-xx KH2110109-xx KH1810081-xx KH2110116-xx	10 x 7.2 x 13.2 10.5 x 8.5 x 12.2	-	KH1710101-xx	7.9 x 7.3 x 12.6
4P	**************************************	Horizontal Vertical	KH1710114-xx KH2110110-xx KH1810083-xx KH2110117-xx	12 x 7.2 x 13.2 12.5 x 8.5 x12.2		KH1710104-xx	9.9 x 7.3 x 12.6
5P		Horizontal Vertical	KH1810097-xx KH2110111-xx KH1810085-xx KH2110118-xx	14 x 7.2 x 13.2 14.5 x 8.5 x 12.2		KH1810066-xx	11.9 x 7.3 x 12.6
6P	S	Horizontal Vertical	KH1710116-xx KH2110112-xx KH1810087-xx KH2110119-xx	16 x 7.2 x 13.2 16.5 x 8.5 x 12.2		KH1710107-xx	13.9 x 7.3 x 12.6
7P	•	Horizontal Vertical	KH1810099-xx KH2110113-xx KH1810089-xx KH2110120-xx	18 x 7.2 x 13.2 18.5 x 8.5 x 12.2		KH1810069-xx	15.9 x 7.3 x 12.6
8P		Horizontal Vertical	KH1810101-xx KH2110114-xx KH1810091-xx KH2110121-xx	20 x 7.2 x13.2 20.5 x 8.5 x 12.2		KH1810072-xx	17.9 x 7.3 x 12.6
10P		Horizontal Vertical	KH1810103-xx KH2110115-xx KH1810028-xx KH2110122-xx	22 x 7.2 x13.2 24.5 x 8.5 x 12.2	•	KH1810025-xx	21.9 x 7.3 x 12.6
12P		Vertical	KH1810093-xx KH2110123-xx	28.5 x 8.5 x 12.2		KH1810075-xx	25.9 x 7.3 x 12.6
15P		Vertical	KH1810095-xx KH2110124-xx	34.5 x 8.5 x 12.2		KH1810078-xx	31.9 x 7.3 x 12.6

020 D C(0.50mm) Series

SMT TYPE

D : Double Lock C: CPA (Connector Position Assurance)

● Tin ● Au

Application ▶ Headlight

- ▶ Rear Combination Light ▶ Daytime Running Light

Characteristic

- ▶ Light and Miniature
- ▶ Good workability through fully assembly
- ► Compact Size and Good contact
- ▶ Apply the CPA for prevents accidental un-mating



- ▶ The blade width of male Terminal for this Connector is 0.020 inch (0.5mm)
- ▶ The terminal pitch of this connector is 2.0mm
- ▶ It has applied the TPA of side type for the assemble workability
- ▶ This product is similar size with 020 Series even included the mounted TPA
- ▶ Pre-assembled TPA & CPA
- ▶ Reliability Test Specification : ES91500-00, ES91500-03, LV214, USCAR-2

Specifications

Current Rating	Contact Resistance	Insulation Resistance	Dielectric strength	Temperature Range
5A	30mΩ (Max.)	100MΩ (Min.)	AC 1kV	-40°C ~ 125°C

Materials

Male Housing	Female Housing	Terminal
PA9T-GF30	PBT-GF30	Copper Alloy



Part No.	Dimension (mm)			Tab Width	Plating	Applicable
Part No.	W	Н	L	(mm)	Flating	Wire Range
KH1700007-20 (Female)	1.5	1.6	10.2	0.5	Tin	0.22 mm³
KH1700007-22 (Female)	1.5	1.6	10.2	0.5	Tin	0.3 ~ 0.5 mm²

020 D C(0.50mm) Series

SMT TYPE

D : Double Lock C: CPA (Connector Position Assurance)

							● Tin ● Au
Pin	ltem	Туре	Male PN.	Size (mm) (W x H x L)	Item	Female PN.	Size (mm) (W x H x L)
0.0		Horizontal	KH1900035-xx KH2100125-xx	10 x 7.2 x 13.2	, market		70 770 450
2P		Vertical	KH1900056-xx KH2100132-xx	10.6 x 8.5 x 12.2		KH1900009-xx	7.9 x 7.72 x 15.2
3P		Horizontal	KH1900036-xx KH2100126-xx	12 x 7.2 x 13.2		KH1900012-xx	9.9 x 7.72 x 15.2
31		Vertical	KH1900057-xx KH2100133-xx	12.6 x 8.5 x 12.2		NITI SOUTE AN	3.3 X 1.72 X 13.2
4P		Horizontal	KH1900037-xx KH2100127-xx	14 x 7.2 x 13.2		KH1900015-xx	11.9 x 7.72 x 15.2
		Vertical	KH1900058-xx KH2100134-xx	14.6 x 8.5 x 12.2		THE STATE OF THE S	
5P	Horizontal KH1900038-xx KH2100128-xx 16 x 7.2 x 13.2		KH1900017-xx	13.9 x 7.72 x 15.2			
Jr.		Vertical	KH1900059-xx KH2100135-xx	16.6 x 8.5 x 12.2	N.	KITT300017-XX	
6P		Horizontal	KH1900039-xx KH2100129-xx	18 x 7.2 x 13.2		KH1900019-xx	15.9 x 7.72 x 15.2
Or .		Vertical	KH1900060-xx KH2100136-xx	18.6 x 8.5 x 12.2		K111300013-AX	13.3 X 1.12 X 13.2
7P		Horizontal	KH1900040-xx KH2100130-xx	20 x 7.2 x 13.2		KH1900021-xx	17.9 x 7.72 x 15.2
7.5		Vertical	KH1900061-xx KH2100137-xx	20.6 x 8.5 x 12.2		K1/1300021-XX	11.3 X 1.12 X 13.2
9P		Horizontal	KH1900041-xx KH2100131-xx	24 x 7.2 x 13.2		K114000022	21 0 7 72 15 2
91		Vertical	KH1900062-xx KH2100138-xx	24.6 x 8.5 x 12.2		KH1900023-xx	21.9 x 7.72 x 15.2

020 D C G(0.50mm) Series

SMT TYPE

D : Double Lock C: CPA (Connector Position Assurance)

● Tin ● Au

Application ► Headlight

- ▶ Rear Combination Light
- ▶ Daytime Running Light

Characteristic

- ▶ Light and Miniature
- ▶ Good workability through fully assembly
- ► Compact Size and Good contact
- ▶ Apply the CPA for prevents accidental un-mating



- ▶ The blade width of male Terminal for this Connector is 0.020 inch (0.5mm)
- ▶ The terminal pitch of this connector is 2.0mm
- ▶ It has applied the TPA of side type for the assemble workability
- ▶ This product is similar size with 020 Series even included the mounted TPA
- ▶ Pre-assembled TPA & CPA
- ▶ Reliability Test Specification : LV214, USCAR-2

Specifications

Current Rating	Contact Resistance	Insulation Resistance	Dielectric strength	Temperature Range
5A	30mΩ (Max.)	100MΩ (Min.)	AC 1kV	-40°C ~ 125°C

Materials

Male Housing	Female Housing	Terminal
PA9T-GF30	PBT-GF30	Copper Alloy



Doub No.	Di	Dimension (mm)				Applicable
Part No.	W	Н	L	(mm)	Plating	Wire Range
KH1710007-22 (Female)	1.5	1.6	10.2	0.5	Tin	0.3 ~ 0.5 mm²
KH1710007-32 (Female)	1.5	1.6	10.2	0.5	Au	0.3 ~ 0.5 mm²

020 D C G(0.50mm) Series

SMT TYPE

D : Double Lock C: CPA (Connector Position Assurance)

							● Tin ● Au
Pin	Item	Туре	Male PN.	Size (mm) (W x H x L)	ltem	Female PN.	Size (mm) (W x H x L)
2P	AND	Horizontal	KH1910035-xx KH2110125-xx	10 x 7.2 x 13.2		KH1910009-xx	7.9 x 7.72 x 15.2
21		Vertical	KH1910056-xx KH2110132-xx	10.6 x 8.5 x 12.2		KITISTOOGS XX	7.5 X 7.72 X 15.2
3P		Horizontal	KH1910036-xx KH2110126-xx	12 x 7.2 x 13.2		KH1910012-xx	9.9 x 7.72 x 15.2
Jr.		Vertical	KH1910057-xx KH2110133-xx	12.6 x 8.5 x 12.2		KIII310012-AA	3.3 X 1.12 X 13.2
4P		Horizontal	KH1910037-xx KH2110127-xx	14 x 7.2 x 13.2		KH1910015-xx	11.9 x 7.72 x 15.2
41	Vertical KH1910058-xx KH2110134-xx 14.6 x 8.5 x 12.2		KH1910013-XX	11.9 X 1.12 X 13.2			
5P		Horizontal	KH1910038-xx KH2110128-xx	16 x 7.2 x 13.2		VIII 04 004 7	13.9 x 7.72 x 15.2
517		Vertical	KH1910059-xx KH2110135-xx	16.6 x 8.5 x 12.2	4000	KH1910017-xx	13.3 X 1.12 X 13.2
6P		Horizontal	KH1910039-xx KH2110129-xx	18 x 7.2 x 13.2		KH1910019-xx	150 772 152
OP		Vertical	KH1910060-xx KH2110136-xx	18.6 x 8.5 x 12.2		KH1910019-xx	15.9 x 7.72 x 15.2
70		Horizontal	KH1910040-xx KH2110130-xx	20 x 7.2 x 13.2		VI 14 04 0024	470 772 452
7P		Vertical	KH1910061-xx KH2110137-xx	20.6 x 8.5 x 12.2		KH1910021-xx	17.9 x 7.72 x 15.2
0.0		Horizontal	KH1910041-xx KH2110131-xx	24 x 7.2 x 13.2		KI MOMOOOO	24.0 7.72 45.2
9P		Vertical	KH1910062-xx KH2110138-xx	24.6 x 8.5 x 12.2		KH1910023-xx	21.9 x 7.72 x 15.2

020 D C TR / D T TR(0.50mm) Series

SMT TYPE

C: CPA (Connector Position Assurance)

● Tin ● Au

Application

- ▶ Headlight
- ▶ Rear Combination Light
- ▶ Daytime Running Light

Characteristic

- ▶ Light and Miniature
- ▶ Good workability through fully assembly
- ► Compact Size and Good contact
- ▶ Apply the CPA for prevents accidental un-mating



- ▶ The blade width of male Terminal for this Connector is 0.020 inch (0.5mm)
- ▶ The terminal pitch of this connector is 2.0mm
- ▶ It has applied the TPA of side type for the assemble workability
- ▶ This product is similar size with 020 Series even included the mounted TPA
- ▶ Pre-assembled TPA & CPA
- ▶ Reliability Test Specification: ES91500-00, ES91500-03, LV214, USCAR-2

Specifications

Current Rating	Contact Resistance	Insulation Resistance	Dielectric strength	Temperature Range
5A	30mΩ (Max.)	100MΩ (Min.)	AC 1kV	-40°C ~ 125°C

Materials

Male Housing	Female Housing	Terminal
PA9T-GF30	PBT-GF30	Copper Alloy



Part No.	Di	Dimension (mm)			Disting	Applicable
Part No.	W	Н	L	(mm)	Plating	Wire Range
KH1700007-20 (Female)	1.5	1.6	10.2	0.5	Tin	0.22 mm³
KH1700007-22 (Female)	1.5	1.6	10.2	0.5	Tin	0.3 ~ 0.5 mm²

020 D C TR(0.50mm) Series

SMT TYPE

D : Double Lock C: CPA (Connector Position Assurance)

Tin Au

Pin	ltem	Туре	Male PN.	Size (mm) (W x H x L)	ltem	Female PN.	Size (mm) (W x H x L)
9P		Vertical	KH2200055-xx	17.4 x 12.2 x 13.5		KH2200029-xx	12.4 x 11.3 x 15.4
11P		Horizontal Vertical	KH2200047-xx KH2200058-xx	19.3 x 12.5 x 15.3 19.4 x 12.2 x 13.5		KH2200033-xx	14.4 x 11.3 x 15.4
13P		Horizontal Vertical	KH2200049-xx KH2200060-xx	21.3 x 12.5 x 15.3 21.4 x 12.2 x 13.5		KH2200036-xx	16.4 x 11.3 x 15.4
15P		Horizontal Vertical	KH2200051-xx KH2200062-xx	23.3 x 12.5 x 15.3 23.4 x 12.2 x 13.5		KH2200039-xx	18.4 x 11.3 x 15.4
17P		Horizontal Vertical	KH2200053-xx KH2200064-xx	25.3 x 12.5 x 15.3 25.4 x 12.2 x 13.5		KH2200042-xx	20.4 x 11.3 x 15.4

020 D T TR(0.50mm) Series

SMT TYPE

D : Double Lock T : Top Latch

Pin	Item	Type	Male PN.	Size (mm) (W x H x L)	Item	Female PN.	Size (mm) (W x H x L)
12P		Horizontal	KH2200093-xx	19.3 x 12.5 x 15.3		KH2200080-xx	14.4 x 11.3 x 12.6
121		Vertical	KH2200098-xx	19.4 x 12.2 x 13.5		KH2200000-XX	14.4 X 11.5 X 12.0
14P		Horizontal	KH2200094-xx	21.3 x 12.5 x 15.3		KH2200083-vv	16.4 x 11.3 x 12.6
141		Vertical	KH2200099-xx	21.4 x 12.2 x 13.5		KH2200003-XX	10.4 % 11.5 % 12.0
16P		Horizontal	KH2200095-xx	23.3 x 12.5 x 15.3		KH2200086-xx	184 x 11.3 x 12.6
		Vertical	KH2200100-xx	23.4 x 12.2 x 13.5		K112200000-XX	10.4 X 11.5 X 12.0

020 D TR(0.50mm) Series

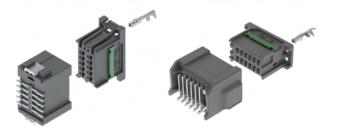
SMT TYPE D : Double Lock TR: Two Row

Application ► Headlight

- ▶ Rear Combination Light
- ▶ Daytime Running Light ▶ E-Shifter indicator

Characteristic

- ▶ Light and Miniature
- ▶ Pre-Assembled TPA for secondary lock
- ▶ Good workability through fully assembly



- ▶ The blade width of male Terminal for this Connector is 0.020 inch (0.5mm)
- ▶ The terminal pitch of this connector is 2.0mm
- It has applied the TPA of side type for the assemble workability
- ▶ Pre-assembled TPA for secondary lock
- ▶ Reliability Test Specification : ES91500-00, ES91500-03

Specifications

Current Rating	Contact Resistance	Insulation Resistance	Dielectric strength	Temperature Range
5A	30mΩ (Max.)	100MΩ (Min.)	AC 1kV	-40℃ ~ 125℃

Materials

Male Housing	Female Housing	Terminal
PA9T-GF30	PBT-GF10	Copper Alloy

							● Tin ● Au
Pin	ltem	Туре	Male PN.	Size (mm) (W x H x L)	Item	Female PN.	Size (mm) (W x H x L)
10P		Vertical	KH1800007-xx	19.9 x 12.9 x 11.8		KH1800004-xx	19.5 x 9.6 x 12.6
12P		Horizontal	KH1900050-xx	21.2 x 12 x 16		KH1900044-xx	21.5 x 9.6 x 12.6
		Vertical		21.9 x 12.9 x 11.8	•		
14P		Horizontal	KH1900054-xx	23.2 x 12 x 16		KH1900047-xx	23.5 x 9.6 x 12.6
14P		Vertical		23.9 x 12.9 x 11.8	-	K111300047-XX	23.3 X 3.0 X 12.0

	David Nila	Di		Tab Width		
Terminal	Part No.	W	н	L	(mm)	Plati
The state of the s	KH1700007-20 (Female)	1.5	1.6	10.2	0.5	Tir
H W	KH1700007-22 (Female)	1.5	1.6	10.2	0.5	Tir

020 S II (0.50mm) Series

SMT TYPE

S : Small II : Prevent Miss Lock

Application ► Headlight

- ▶ Rear Combination Light
- ▶ Daytime Running Light
- ▶ Side Mirror

- Characteristic

 ► Light and Miniature ▶ Process for easy mating
- ▶ Compact Size and Good contact



- ▶ The blade width of male Terminal for this Connector is 0.020 inch (0.5mm)
- ▶ The terminal pitch of this connector is 2.0mm
- ▶ This product is smaller than 020 Series and excellent space utilization
- ▶ This product has a lock function that does not unlocked arbitrarily. (Prevent Miss Lock)
- ▶ Reliability Test Specifications : ES91500-03

Specifications

Current Rating	Contact Resistance	Insulation Resistance	Dielectric strength	Temperature Range
3A	30mΩ (Max.)	100MΩ (Min.)	AC 1kV	-40°C ~ 125°C

Materials

Male Housing	Female Housing	Terminal
PA9T-GF30	PA66-GF15	Copper Alloy

							● Tin ● Au
Pin	ltem	Туре	Male PN.	Size (mm) (W x H x L)	ltem	Female PN.	Size (mm) (W x H x L)
2P		Vertical	KH2400016-xx	8.4 x 9.8 x 8.4		KH2300047-xx	8.2 x 6.9 x 9.1
5P		Horizontal	KH2300003-xx	14.2 x 8.5 x 10.9		KH2300004-xx	14.2 x 8.2 x 9.1

Terminal

● Tin ● Au **Applicable** Wire Range 0.22 mm² 0.3 ~ 0.5 mm²



						• III • Au
Part No.	Dimension (mm)			Tab Width	Disting	Applicable
Part No.	W	Н	L	(mm)	Plating	Wire Range
KH1400004-21 (Female)	1.5	1.9	7.8	0.5	Tin	0.22 ~ 0.5 mm²
KH1400004-31 (Female)	1.5	1.9	7.8	0.5	Au	0.22 ~ 0.5 mm²

ALL specifications Subject to change. Consult UJU ELECTRONICS for latest specifications

025 D(0.64mm) Series

SMT TYPE

D : Double Lock

Application ► Headlight

- ▶ Rear Combination Light
- ▶ Steering Wheel Remote Control
- ▶ Vanity Lamp
- ▶ TGS Indicator

Characteristic

- ▶ Double locking structure using the integral TPA
- ▶ Terminal's reverse & incomplete insert prevention structure



- ▶ The blade width of male terminal for this connector is 0.025 inch (0.64mm)
- ▶ The terminal pitch of this connector is 2.2mm
- ▶ This is the standard product about the small connector for 0.025 inch (0.64mm)
- ▶ Reliability Test Specification : ES91500-00

Specifications

Current Rating	Contact Resistance	Insulation Resistance	Dielectric strength	Temperature Range
5A	10mΩ (Max.)	100MΩ(Min.)	AC 1KV	-40℃ ~ 125℃

Materials

Male Housing	Female Housing	Terminal
PPA-GF15	PBT	Copper Alloy





Part No.	Dimension (mm)			Tab Width	Plating	Applicable	
Part No.	W	н	L	(mm)	Flatilig	Wire Range	
KH1800045-21 (Female)	1.65	1.7	11	0.64	Tin	0.3 ~ 0.5 mm²	

025 D(0.64mm) Series

SMT TYPE

D : Double Lock

							● Tin ● Au
Pin	ltem	Туре	Male PN.	Size (mm) (W x H x L)	ltem	Female PN.	Size (mm) (W x H x L)
2P		Horizontal	KH1400027-xx	12.4 x 9.25 x 19.2		KH1800056-xx	7.7 x 10.5 x 18.7
	1	Vertical	KH1400033-xx	12.6 x 10.4 x 18.25			
3P		Horizontal	KH1400029-xx	14.6 x 9.25 x 19.2		KH1900003-xx	9.9 x 10.5 x 18.7
		Vertical	KH1400035-xx	14.8 x 10.4 x 18.25			
4P		Horizontal	KH1400031-xx	16.8 x 9.25 x 19.2		KH1900005-xx	12.1 x 10.5 x 18.7
	200	Vertical	KH1400037-xx	17 x 10.4 x 18.25			
6P		Horizontal	KH1300051-xx	21.2 x 9.25 x 19.2		KH1900007-xx	16.5 x 10.5 x 18.7
	Town of	Vertical	KH1300031-xx	21.4 x 10.4 x18.25	The same of	,	
8P		Horizontal	KH1300055-xx	25.6 x 9.25 x19.2		KH1800058-xx	20.9 x 10.5 x18.7
OF .	Town or	Vertical	KH1300038-xx	25.8 x10.4 x 18.25	annan A	K171000030-XX	20.3 % 10.3 %10.7
10P		Horizontal	KH1900072-xx	32.2 x 9.25 x 19.2		KH1900070-xx	27.5 x 10.5 x 18.7

025 (0.64mm) Series

Wire To Wire TYPE



Pin	Item	PN.	Size(mm) (WxHxL)	
6P		KH1500001-xx	18.7x9.4x32.0	
6P	-	KH1300035-xx	16.5x9.25x18.7	
Suitable Male Terr	minal	Suitable Female	Terminal	
► KH1200034-xx (Tin	Plated)	► KH1200031-xx (Tin Plated)		

025 II(0.64mm) Series

SMT & WIRE TO WIRE TYPE

Application ► Headlight

- ▶ Rear Combination Light
- ▶ Steering Wheel Remote Control

Characteristic

- ▶ Advanced terminal contact structure
- ▶ Pre-assembled TPA for Easy handle the secondary lock
- ▶ Kojiri prevention structure





- ▶ The blade width of male terminal for this connector is 0.025 inch[0.64mm]
- ▶ The terminal pitch of this connector is 2.2mm
- ▶ Applied TPA type of male/female connector: Pre-assembled TPA
 ▶ This is the standard product about the small connector for 0.025 inch(0.64mm)
- ▶ Reliability Test Specification : ES91500-00, GMW3191

Specifications

Current Rating	Contact Resistance	Insulation Resistance	Dielectric strength	Temperature Range
5A	10mΩ (Max.)	100MΩ (Min.)	AC 1kV	-40°C ~ 125°C

Materials

Male Housing	Female Housing	Terminal
PA9T-GF30 / PBT-GF10	PBT-GF10	Copper Alloy



	Part No.	Dimension (mm)			Tab Width	Plating	Applicable
r	Part No.	W	н	L	(mm)	Flatting	Wire Range
entrant.	KH2000016-21 (Female)	1.6	1.55	21.9	0.64	Tin	0.3 ~ 0.5 mm²
A STATE OF THE STA	KH2000017-21 (Male)	1.4	2.0	13.9	0.64	Tin	0.3 ~ 0.5 mm²

025 II(0.64mm) Series

SMT & WIRE TO WIRE TYPE

						● Tin ● Au	
Pin	Item	Туре	Male PN.	Size (mm) (W x H x L)	Item	Female PN.	Size (mm) (W x H x L)
6P		Vertical	KH2000065-xx	15.8 x 16.2 x 20.3		KH2000059-xx	9.1 x 15.5 x 18.1
	\$1	Male	KH2100046-xx	11.5 x 16.2 x 33.0			
8P		Vertical	KH2000085-xx	18.0 x 16.2 x 20.3		KH2000082-xx	11.3 x 15.5 x 18.1
10P		Male	KH2000025-xx	16.1 x 16.2 x 33.0		KH2000022-xx	13.5 x 15.2 x 18.1
12P		Vertical	KH2000071-xx	22.4 x 16.2 x 20.3		KH2000062-xx	15.7 x 15.5 x 18.1
		Vertical	KH2100104-xx	22.5 x 16.1x 33.0	4	KH2100102-xx	20.1 x 16.2 x 18.1
16P	***************************************					KH2000088-xx	20.1 x 15.2 x 18.1
		Male	KH2000091-xx	22.7 x 16.2 x 33.0		KH2100102-xx	20.1 x 16.2 x 18.1
						KH2000088-xx	20.1 x 15.2 x 18.1
24P		Male	KH2100052-xx	31.5 x 16.2 x 33.0		KH2100049-xx	28.9 x 15.2 x 18.1
28P		Male	KH2100058-xx	35.9 x 16.2 x 33.0		KH2100055-xx	33.3 x 15.2 x 18.1

025(0.64mm) Sealed Series

WIRE TO WIRE TYPE

Application

- ▶ Headlight
- ▶ Rear Combination Light
- ▶ Radar▶ Sensor

Characteristic

- ► Connector for Wire to Wire
- ▶ Robust designed water resistant feature
- ▶ Pre-Assembled the moving plate for Terminal Protection



- ▶ The blade width of male Terminal for this Connector is 0.025 inch (0.64mm)
- ▶ The terminal pitch of this connector is 3.3mm
- ▶ Quality enhancement in waterproof aspect
- ▶ Applied TPA type of male/female connector : Pre-assembled TPA
- ▶ Reliability Test Specifications : ES91500-00

Specifications

Current Rating	Contact Resistance	Insulation Resistance	Dielectric strength	Temperature Range
5A	10mΩ (Max.)	100MΩ (Min.)	AC 1kV	-40°C ~ 125°C

Materials

Fema	ale Housing	Male Housing PBT-GF10		Termir	nal	Wire Seal	
	PBT-GF10			Copper A	Alloy	Silicone	
						● Tin ● Au	
Pin	Item	Male PN.	Size (mm) (W x H x L)	ltem	Female PI	N. Size (mm) (W x H x L)	
4P	₩	KH2200019-xx KH2200018 (TPA)	Ø21.4 x Ø21.4 x 9.2 x 12.6 x 2		KH2200017	-xx 16.9 x 22.0 x 22.2	
6P	*	KH2100071-xx KH2100070 (TPA)	Ø23.0 x Ø23.0 x 12.4 x 12.6 x 2		KH2100067	-xx 20.2 x 22.0 x 22.2	
8P	F	KH2000039-xx	21.5 x 19.5 x 3	7.1	KH2000036	-xx 23.5 x 20.6 x 22.2	

	Part No.		Dimensio	n (mm)		Tab Width	Plating	Applicable
al	Part No.	W H		L		(mm)	Plaulig	Wire Range
	KH2000035-21 (Male)	1.5	1.8		22.2	0.64	Tin	0.3 ~ 0.5 mm²
	KH2000034-21 (Female)	1.5	2.0		15.2	0.64	Tin	$0.3 \sim 0.5 \text{ mm}^3$
ed.	KH2000035-20 (Male)	1.5	1.8		22.2	0.64	Tin	0.22 mm²
مليح	KH2000034-20 (Female)	1.5	2.0		15.2	0.64	Tin	0.22 mm²
	Don't Ma		Dim	Dimension (mm)		Calan	Insulation	Applicable
	Part No.		W	Н	Ĺ	Color	Range	Wire Range
	KD0000002 (Wire S	Seal S)	Ø3.1	Ø3.1	6.4	Red	Ø0.9	0.22 mm²
•	KD0000004 (Wire S	eal M)	Ø3.1	Ø3.1	6.4	Gray	Ø1.4	0.3 mm²
	KD0000005 (Wire Seal L)		Ø3.0	Ø3.0	6.4	Purple	Ø1.6~Ø1.7	0.5 mm²

7.3

Blue

Ø3.6 Ø3.6

025 II(0.64mm) Self Aligned Series WIRE TO WIRE TYPE

Application
► Headlight

Characteristic

- ▶ Connector for Wire to Wire
- ▶ Structure for connector position correction



- ▶ The blade width of male terminal for this connector is 0.025 inch[0.64mm]
- ▶ The terminal pitch of this connector is 2.2mm
- ▶ Applied TPA type of male/female connector : Pre-assembled TPA
- ▶ Reliability Test Specification : ES91500-00, GMW3191

Specifications

Current Rating	rrent Rating Contact Resistance Insu		Dielectric strength	Temperature Range
5A	10mΩ (Max.)	100MΩ (Min.)	AC 1kV	-40°C ~ 125°C

Materials

IV	lale Housin	g	Female Housing		Terminal			
	PBT-GF10		PBT-GF10		Copper Alloy			
Pin	ltem	Male PN.	Size (mm) (W x H x L)	ltem	Female PN.	● Tin ● Au Size (mm) (W x H x L)		
6P		KH2100088-xx	38.7 x 18.4 x 34.1	**	KH2100080-xx KH2100086-xx	16.3 x 11.4 x 16.7 37.5 x 15.1 x 57.3		
12P		KH2100091-xx	44.2 x 17.6 x 34.1	\$	KH2100083-xx KH2100087-xx	23.7 x 10.7 x 16.7 69.2 x 15.2 x 52.8		
24P		KH2200005-xx	52.3 x 21.4 x 34.1		KH2200001-xx KH2200004-xx	28.1 x 14.5 x 16.7 75.3 x 15.2 x 52.3		

ALL specifications Subject to change. Consult UJU ELECTRONICS for latest specifications

KD0000003 (Dummy Seal)

025 TR(0.64mm) Series

SMT TYPE

TR: Two Row

Application

- ▶ LDM of Headlight
- ► Rear Combination Light
 ► Power Window Switch

Characteristic

- ▶ Pre-Assembled TPA for secondary lock
- ▶ Raw Material for high Temp. condition

► Kojiri prevention structure



- ▶ The blade width of male Terminal for this Connector is 0.025 inch (0.64mm)
- ▶ The terminal pitch of this connector is 2.2mm
- ▶ It has applied the TPA of side type for the assemble workability
- ▶ Pre-assembled TPA for secondary lock
- ▶ Reliability Test Specifications : ES91500-00, ES91500-03

Specifications

Current Rating	Contact Resistance	Insulation Resistance	Dielectric strength	Temperature Range
5A	10mΩ (Max.)	100MΩ (Min.)	AC 1kV	-40℃ ~ 125℃

Materials

Male Housing	Female Housing	Terminal
PA9T-GF33	PBT-GF10	Copper Alloy

							● Tin ● Au
Pin	Item	Туре	Male PN.	Size (mm) (W x H x L)	Item	Female PN.	Size (mm) (W x H x L)
16P		Vertical	KH1700070-xx	32.6 x 16.2 x 19.7		KH1700064-xx	20.4 x 14.6 x 18.7
24P	-	Vertical	KH1700075-xx	41.4 x 16.2 x 19.7		KH1700067-xx	29.2 x 14.6 x 18.7

Terminal



Part No.	Di	mension (Tab Width	Plating	Applicable
Part No.	W	Н	L	(mm)	Flating	Wire Range
KH1200031-20 (Female)	1.5	1.9	14.2	0.64	Tin	0.22 mm²
KH1200031-21 (Female)	1.5	1.9	14.2	0.64	Tin	0.3 ~ 0.5 mm²

025 BTP(0.64mm) Series

SMT TYPE

BTP : Board to Pin

Application ► Headlight

Characteristic

▶ Not required the Male connector

▶ Good contact



- ▶ The blade width of male Terminal for this Connector is 0.025 inch(0.64mm)
- ► The terminal pitch of this connector is 2.9mm
- ▶ Reliability Test Specification : ES91500-03

Specifications

Current Rating	Contact Resistance	Insulation Resistance	Dielectric strength	Temperature Range
3A	30mΩ (Max.)	100MΩ (Min.)	AC 500V	-40°C ~ 125°C

Materials

Female Housing	Terminal
LCP-GF30	Copper Alloy

				●Tin ● Au
Pin	ltem	Туре	Female PN.	Size (mm) (W x H x L)
2P		Vertical	KH2000044-20	10.7 x 5.2 x 7.4
4P		Vertical	KH2000028-20	13.6 x 5.2 x 7.4
6P	The state of	Vertical	KH2000032-20	16.5 x 5.2 x 7.4

● Tin ● Au

060(1.50mm) Sealed Series WIRE TO WIRE TYPE

Application ► Headlight

- ▶ Switch
- ▶ Sensor ▶ Injector

Characteristic

- ► Connector for Wire to Wire
- ▶ Robust designed water resistant feature



- ▶ The blade width of male Terminal for this Connector is 0.060 inch (1.50mm)
- ▶ The terminal pitch of this connector is 4.6mm
- ▶ Quality enhancement in waterproof aspect
- ▶ Applied TPA type of male/female connector : Pre-assembled TPA
- ▶ Reliability Test Specifications : ES91500-00

Specifications

Current Rating	Contact Resistance	Insulation Resistance	Dielectric strength	Temperature Range
10A	10mΩ (Max.)	100MΩ (Min.)	AC 1kV	-40℃ ~ 125℃

Materials

		.ga.e				77 5 5 6 6	
	PBT-GF10	PE	T-GF10 C	Copper Alloy (F) & Brass (M)		Silicone	
						● Tin ● Au	
Pir	ltem	Male PN.	Size (mm) (W x H x L)	ltem	Female PN.	Size (mm) (W x H x L)	
2P		KH2100099-xx	17.3 x 17.2 x 37.8		KH2100096-xx	18.4 x 19.7 x 23.2	

Part No.	D W	imension (r H	nm) L	Tab Width (mm)	Plating	Applicable Wire Range
KH2100095-22 (Male)	2.4	1.9	22.1	1.50	Tin	0.75 ~ 1.25 mm²
KH2100094-22 (Female)	2.3	2.4	16.3	1.50	Tin	0.75 ~ 1.25 mm²
KH2100095-21 (Male)	2.4	1.9	22.1	1.50	Tin	0.3 ~ 0.5 mm²
KH2100094-21 (Female)	2.3	2.4	16.3	1.50	Tin	0.3 ~ 0.5 mm ³
KH2100095-20 (Male)	2.4	1.9	22.1	1.50	Tin	0.22 mm²
KH2100094-20 (Female)	2.3	2.4	16.3	1.50	Tin	0.22 mm²

Part No.	Dir	Dimension (mm)		Color	Insulation	Applicable
Part No.	W	Н	L	Color	Range	Wire Range
KD0000007 (Wire Seal S)	Ø4.8	Ø4.8	7.8	Brown	Ø0.9	0.22 mm²
KD0000008 (Wire Seal M)	Ø4.8	Ø4.8	7.8	Orange	Ø1.4	$0.3 \sim 0.85 \text{ mm}^2$
KD0000009 (Wire Seal L)	Ø4.8	Ø4.8	7.8	Gray	Ø1.9~Ø2.2	1.25 mm²
KD0000010 (Dummy Seal)	Ø5.3	Ø5.3	8.8	Red	-	

060(1.50mm) Series **SMT TYPE**

Application

- ▶ Headlight
- ▶ Switch
- ▶ Sensor ▶ Injector

Characteristic

- ► Connector for Wire to Wire
- ▶ Robust designed water resistant feature



- ▶ The blade width of male Terminal for this Connector is 0.060 inch (1.50mm)
- ▶ The terminal pitch of this connector is 3.2/4.35mm
- ▶ Quality enhancement in non-waterproof aspect
- ▶ Applied TPA type of female connector : Pre-assembled TPA
- ▶ Reliability Test Specifications : ES91500-00

Specifications

Current Rating	Contact Resistance	Insulation Resistance	Dielectric strength
10A	10mΩ (Max.)	100MΩ (Min.)	AC 1kV

Materials

Female Housing Male Housing Terminal			rminal			
PBT-GF10			PA9T-GF30%		Copper Alloy (F)	
						● Tin ● Au
Pin	ltem	Male PN.	Size (mm) (W x H x L)	Item	Female PN.	Size (mm) (W x H x L)
2P	P	KH2300028-xx	21.4 x 18.9 x 19.85		KH2300007-xx	15.6 x 17.75 x 19.3

Terminal	Down No.	Dimension (mm)			Tab Width		Applicable
	Part No.	W H L		(mm)	Plating	Wire Range	
	KH2100094-22 (Female)	2.3	2.4	15.9	1.50	Tin	0.75 ~ 1.25 mm²
	KH2100094-21 (Female)	2.3	2.4	15.9	1.50	Tin	0.3 ~ 0.5 mm²
	KH2100094-20 (Female)	2.3	2.4	15.9	1.50	Tin	0.22 mm²

PCB Jumper Series BOARD TO BOARD TYPE

Application ► Headlight ► HMSL

Characteristic

- ▶ Connection of separated PCBs
- ▶ Wireless
- ▶ Connector for various PCB assembly conditions (Tilting, Rolling, Flush)



- ▶ PCBs can be connected by this product
- ▶ The terminal pitch is 4.0mm
- ▶ A specified mount shape is required for compression and fastening between the connector and PCB. ▶ Reliability Test Specifications : ES91500-03

Specifications

Current Rating	Contact Resistance	Insulation Resistance	Dielectric strength	Temperature Range
3A	30mΩ (Max.)	100MΩ (Min.)	AC 500V	-40°C ~ 125°C

Materials

Female Housing	Terminal
PBT-GF10	Phosphor Bronze

				● Tin ● Au
Pin	ltem	Туре	Female PN.	Size (mm) (W x H x L)
2P		Horizontal	KH2300032-xx	14.8 x 15.5 x 35.0

PCB Slot Series SMT TYPE

- **Application**► Crush Pad Switch
- ▶ Switch bank

Characteristic

- ▶ Connector for Board to Board vertically
- ▶ This is used only one connector for connection ▶ Good contact



- ▶ PCBs can be connected by this product alone
- ► Applicable PCB thickness is 1.6mm for Slot area
- ▶ The terminal pitch is 2.2mm
- ▶ Reliability Test Specifications : ES91500-03, GMW3191

Specifications

Current Rating	Contact Resistance	Insulation Resistance	Dielectric strength	Temperature Range
3A	30mΩ (Max.)	100MΩ (Min.)	AC 1kV	-40℃ ~ 125℃

Materials

Female Housing	Terminal
PA9T-GF30	Copper Alloy

				● Tin ● Au
Pin	Item	Туре	Female PN.	Size (mm) (W x H x L)
3P		Vertical	KH1700030-xx KH1700033-xx	9.9 x 9.1 x 6.6
4P		Vertical	KH1800053-xx KH1800055-xx	12.1 x 9.1 x 6.6

PCB Slot Series

SLOT TYPE

- Application

 ▶ Rear Combination Light

 ▶ Daytime Running Light

 ▶ Headlight

- Characteristic

 ► Slot connector for Wire to Board

 ► Connecting to PCB board directly

 ► Good contact



- ▶ This is used only female connector without male.
- It is connecting the wire to board. (Slot Type)The terminal pitch is 2.5mm.
- ► Applicable PCB thickness is 1.6mm for Slot area
- ▶ Optional Part for Horizontal : T/CPA
- ▶ Reliability Test Specifications : ES91500-03, GMW3191, LV214, USCAR-2

Specifications

Current Rating	Contact Resistance	Insulation Resistance	Dielectric strength	Temperature Range
3A	10mΩ (Max.)	100MΩ (Min.)	AC 1kV	-40°C ~ 125°C

Materials

Horizontal Housing	Vertical Housing	T/CPA	Terminal
PA66-GF15	PBT	PA66-GF15	Copper Alloy

Terminal



Don't No.	Di		mm)	PCB		Applicable	
Part No.	W	Н	Thickness (mm)		Plating	Wire Range	
KH1600036-21 KH1600036-31 (Horizontal)	4.1	1.6	9.1	1.6	Tin Au	0.3 ~ 0.5 mm²	
KH2000008-xx (Vertical)	4.1	1.6	9.2	1.6	Tin	0.3 ~ 0.5 mm²	

● Tin ● Au

PCB Slot Series

SLOT TYPE

							● Tin ● Au
Pin	Item	Туре	Female PN.	Size (mm) (W x H x L)	Item	T/CPA PN. (For HZT)	Size (mm) (W x H x L)
2P		Horizontal	KH1600037-xx	11.1 x 6.0 x 10.7	4	KH1700026-70	8.6 x 3.2 x 5.9
21	TO STATE OF THE ST	Vertical	KH2000009-xx	10.8 x 8.7 x 11.4			
		Horizontal	KH1600038-xx	13.6 x 6.0 x 10.7	9	KH1700027-70	11.1 x 3.2 x 5.9
3P	To the	Vertical	KH2000010-xx	13.3 x 8.7 x 11.4			
4P		Horizontal	KH1600039-xx	16.1 x 6.0 x 10.7	434	KH1700028-70	13.6 x 3.2 x 5.9
41	THE .	Vertical	KH2000011-xx	15.8 x 8.7 x 11.4			
5P		Horizontal	KH1900091-xx	18.6 x 6.0 x 10.7			
	TO	Vertical	KH2200015-xx	18.3 x 8.7 x 11.4			
6P		Horizontal	KH1600040-xx	21.1 x 6.0 x 10.7		KH1700029-70	18.6 x 3.2 x 5.9
68	TOP	Vertical	KH2000012-xx	20.8 x 8.7 x 11.4			
0.0		Horizontal	KH1800031-xx	26.1 x 6.6 x 10.7			
8P	me	Vertical	KH2000013-xx	25.8 x 8.7 x 11.4			
10P	and the same	Horizontal	KH1800032-xx	31.1 x 6.6 x 10.7			
	mm.c	Vertical	KH2300005-xx	30.8 x 8.7 x 11.4			

PCB Slot HZT Series

SLOT TYPE

- Application

 ▶ Headlight

 ▶ Daytime Running Light

 ▶ LDM

Characteristic

- ▶ Slot connector for Wire to Board
- ▶ Connecting to Metal PCB board directly▶ One side contact of the PCB



- ► This is used only female connector without male.
 ► It is connecting the wire to board. (Slot Type)
 ► The terminal pitch is 2.5mm.
 ► Applicable PCB thickness is 1.6mm for Slot area

- Metal PCB available through one side contact
 Reliability Test Specifications: ES91500-03

Specifications

Current Rating	Contact Resistance	Insulation Resistance	Dielectric strength	Temperature Range
3A	10mΩ (Max.)	100MΩ (Min.)	AC 1kV	-40°C ~ 125°C

Materials

Female Housing	Terminal
PBT-GF10	Copper Alloy

							● III ● AI
Terminal	Part No.	Dimension (mm)			PCB Thickness		Applicable
Terminat	Part No.	W	Н	L	(mm)	Plating	Wire Range
No. of Lot	KH2000087-21	2.0	2.7	9.6	1.6	Tin	0.3 ~ 0.5 mm²

PCB Slot HZT Series

SLOT TYPE

				● Tin ● Au
Pin	ltem	Туре	Female PN.	Size (mm) (W x H x L)
2P		Horizontal	KH2200104-xx	11.6 x 6.3 x 11.3
3P		Horizontal	KH2200105-xx	14.1 x 6.3 x 11.3
4P		Horizontal	KH2200106-xx	16.6 x 6.3 x 11.3
5P		Horizontal	KH2000080-xx	19.1 x 6.3 x 11.3
6P		Horizontal	KH2200107-xx	21.6 x 6.3 x 11.3
7P		Horizontal	KH2000081-xx	24.1 x 6.3 x 11.3
8P		Horizontal	KH2200108-xx	26.6 x 6.3 x 11.3

FAKRA (Automotive System) Series SEMI-AUTOMATED TYPE

▶ Infotainment (Wireless Antenna, Instrument Cluster)

- ► Safety (Driver Assistance, Camera View, Emergency Braking)
- ► In-Vehicle Networks (Electronics Control Unit, Powertrain, Traffic Info)

- ▶ Pre-assembled TPA for Easy handle the secondary lock
- ▶ Raw Material for high Temp. condition
- ▶ Good Contact



- ▶ Semi-Automated Assembly
- ► Components (Center Contact / Outer Contact / Ferrule)
- ▶ Applied TPA Type of Male/Female Connector: Pre-Assembled TPA
 ▶ Reliability Test Specification: ES96200-03

Specifications

Frequency Range	Impedance	V.S.W.R	Insertion Loss	Temperature Range
DC ~ 6GHz	50Ω (±5Ω)	1:1.5	~ 2.0dB	-40°C ~ 125°C

Materials

Male Housing	Female Housing	Terminal
LCP-GF35	PA66-GF10	Copper Alloy

							● Tin ● Au
Pin	Item	Туре	Male PN.	Size (mm) (W x H x L)	Item	Female PN.	Size (mm) (W x H x L)
1P		Straight	KH2200126-20 (Coding - A)	7.7 x 12.4 x 25		KH2200129-20 (Coding - A)	9.5 x 14.4 x 15.9
1P		Right-Angle	KH2200122-20 (Coding - G)	10.6 x 11.7 x 16.2		KH2200117-30 (Coding - G)	9.5 x 14.1 x 12.9

Terminal



					● Tin ● Au
Don't No.	Dimension (mm)			Distant	
Part No.	W	Н	L	Plating	Cable Type
KH2200111-30 (ST Female)	1.7	1.5	8.6	Tin Au	1.5DS, RG316D
KH2200110-30 (RA Female)	4.5	1.5	11.9	Tin Au	1.5DS, RG316D

FAKRA (Automotive System) Series SEMI-AUTOMATED TYPE

Key Code	Female	Male	Color	Ral No.	Application
А			Jet Black	9005	Radio without phantom supply
В			Cream	9001	Radio with phantom supply
С			Signal Blue	5005	GPS: telematics or navigation
D			Claret Violet	4004	GSM Cellular phone
E			Leaf Green	6002	TV1
F			Nut Brown	8011	TV2
G			Blue Gray	7031	Remote control keyless entry
Н			Heather Violet	4003	GPS: telematics or navigation
1			Beige	1001	Radio controlled parking heating
К			Curry	1027	Radio with IF
L			Carmine Red	3002	Not defined
М			Pastel Orage	2003	Not defined
N			Pastel Green	6019	Not defined
Z			Water Blue	5021	Universal Neutral Code

Press Fit

Application► Solder free solution

Characteristic

► EON(Eye Of Needle) shape



- ▶ Press fit Products meet all IEC60352-5 standards.
- ▶ This product is providing the Solder Free Solution for the harsh environment of vehicle
 ▶ This can be used to apply to Single Pin type or Housing of connector depending on the situation

Specifications

Current Rating	Contact Resistance	Press-In Force	Press-Out Force
5A	0.5mΩ (Max.)	130N (Max.)	30N (Min.)

Materials

Male Housing	Female Housing	Terminal
-	-	Copper Alloy

Special & Customizing Products

Series	ltem	Product	Part No.	Series	ltem	Product	Part No.
	1	030 SLD 5F ASSY	KH1200043-20			060 SLD 2F ASSY BR	KH1200001-40
030 SLD		030 SLD 5M ASSY	KH1200046-20	060 SLD		060 SLD 2F ASSY GN	KH1200001-70
		030 Cavity Plug	KH1200049-10			060 SLD 3F ASSY BK	KH1200004-20
110 SLD		110 SLD 12F ASSY	KH2100002-20	312 SLD		312 SLD 1F ASSY	KH2100001-20
040		040 3M HDR	KH1500011-20	050	4	050 PB SMT 3M ASSY (V)	KH1900076-20
040	- Political	ASSY (H)	KH1500011-20	050		050 SLD SMT 3M ASSY (H)	KH1900080-20
	E-Ministrad	025/060 40M HDR ASSY (V)	KH1400010-10		9	Grommet Inner Housing	KH1300014-10
025	- A	025/060 82M HDR ASSY (V)	KH1200041-10	HSG		Relay Holder Housing	KH1300019-10
НҮВ	ATTA PARTY	025/090 40M HDR ASSY (V)	KH1200037-10	HSG -		Conn. Holder Housing	KH1300029-20
	5	025/110 10M HDR ASSY (H)	KH1600014-20		4	Fuse Puller Housing	KH1300028-30
Band	1	Band Cable Ø6	KH1800116-xx		0	Shield Bracket Halogen for CK	KH1600042-20 KH1600044-20
Cable	1	Band Cable Ø7	KH1800117-xx	Shield Bracket		Shield Bracket Halogen	KH2000053-20 KH2000055-20
	•	Connector Clip Ø7	KH2300013-20		S	Shield Bracket LED	KH1600018-20

FFC Connector Series

SMT TYPE

FFC : Flexible Flat Cable

Application ► FFC to Board

- ▶ Headlight
- ▶ Rear Combination Light ▶ Daytime Running Light

Characteristic

- ▶ Use FFC instead of Wire
- ▶ Light and Miniature
- ▶ Easy handle the mating and unmating
- ► Good contact



- ▶ This connector use a FFC instead of wire.
- ▶ It is connecting a FFC to board. (SMT Type)
- ► The terminal pitch is 1.25mm.
- ▶ It is not required the female terminal
- ▶ Reliability Test Specifications : ES91500-03, GMW3191

Specifications

Current Rating	Contact Resistance	Insulation Resistance	Dielectric strength	Temperature Range
2A	30mΩ (Max.)	100MΩ (Min.)	AC 1kV	-40°C ~ 85°C

Materials

Male Housing			Female	Housing		Terminal		
	PPA-GF15		PA66	-GF15		Copper A	lloy	
							● Tin ● Au	
Pin	Item	Туре	Male PN.	Size (mm) (W x H x L)	Item	Female PN.	Size (mm) (W x H x L)	
2P		Horizontal	KH1600024-xx	10.6 x 5.7 x 10.5		KH1600022-xx	9.0 x 5.0 x 9.0	
4P		Horizontal	KH1600028-xx	13.1 x 5.7 x 10.5		KH1600023-xx	10.5 x 5.0 x 9.0	

FPC Slot Series WIRE TO FPC TYPE

FPC : Flexible Printed Cable

Application ► Headlight

- Characteristic

 ▶ Fork Pin + Cantilever Type TML
- ▶ Easy handle the mating and unmating
- ► Good Contact



- ▶ This connector connecting FPC to Wire.
- ▶ The terminal pitch of this connector is 2.5mm
- ▶ This connector can use at the vehicle environment.
- ▶ It is not required the male terminal
- ▶ Reliability Test Specifications : ES91500-03

Specifications

Current Rating	Contact Resistance	Insulation Resistance	Dielectric strength	Temperature Range
3A	30mΩ (Max.)	100MΩ (Min.)	AC 1kV	-40℃ ~ 125℃

Materials

Male Housing	Female Housing	Terminal
PA66-GF15	PA66-GF15	Copper Alloy

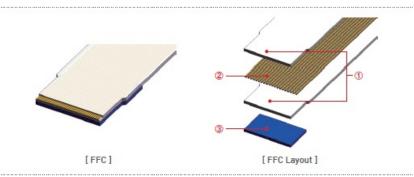
						●Tin ● Au
Pin	Item	Male PN.	Size (mm) (W x H x L)	ltem	Female PN.	Size (mm) (W x H x L)
10P		KH1700166-xx	32.9 x 9.54 x 22.6		KH1700165-xx	30.7 x 8.82 x 11.7



						- IIII - Au	
Don't No.	Dimension (mm)			PCB Thickness		Applicable	
Part No.	W	Н	L	(mm)	Plating	Wire Range	
KH1600036-21 (Female)	4.1	1.6	9.1	1.6	Tin	0.3 ~ 0.5 mm²	
KH1600036-31 (Female)	4.1	1.6	9.1	1.6	Au	0.3 ~ 0.5 mm³	

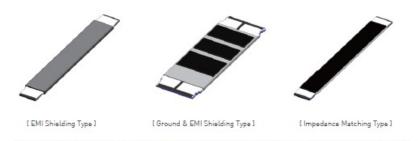
FFC Structure

FFC : Flexible Flat Cable



Structure Characteristic

NO.	Part	Composition	Characteristic	Remark
①	Insulation	PET or PI	Temp. 90 - 125 °C(PET)	Thermosetting
U	insulation	Hot Melt	Temp. 130°C † [PI]	Thermoplastic
2	Conductor	Copper	AWG 42 - 27 Current : 0,2A - 3,0A	Au / Ni Plating or Sn Plating
3	Supporting Tape	PET Primer Hot Melt	90 – 125°C	Color : Blue : Sky Blue Transparency



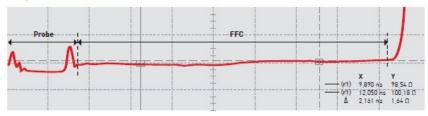
Electrical Performance

Performance

Part	Specification
Pin	9P - 96P
Туре	Single & Double Side Matching (EMI Shielding)
Signal	LVDS / UHS
Characteristics	STD 100±10Ω (Customizing)

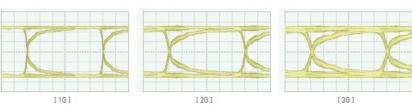


▶ Impedance Characteristics

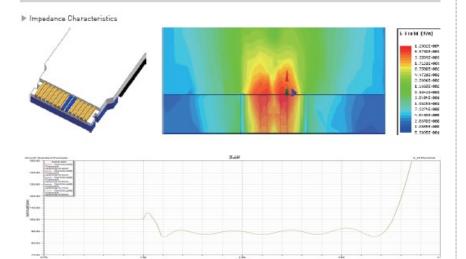


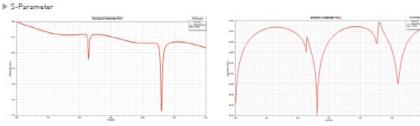
Insertion Loss

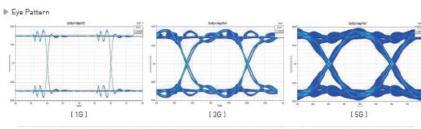




Structured analysis and design technique (With HFSS)







Normal Signal Type

0.4mm Pitch / 0.5mm Pitch / 1.0mm Pitch / 1.25mm Pitch

Applications Characteristics Head Up Display (HUD) TV. Tablet PC Signal Transmission Corrosion Resistance Corrosion Resistance



- This is the most common specification among FFC,
- The conductor pitch of this product is 0,5mm / 1,0mm,
- It is possible to implement various contact method.

Specifications

Pitch(mm)	Pin	Current Rating	Temperature	Insulation Resistance	Dielectric Strength		
0.4	2P_99P	0.5A	D.E.A.	00% 125%	90°C - 125°C	100MΩ (Min.)	AC 250V
0,5	21-771		80 (- 123 ((Julia) Thailon	AC 300V		
1,0	2P-49P	1.0 - 2.0A	90°C - 125°C	100MΩ [Min.]	AC 500V		
1,25	2F-47F	1,U - 2,UA	80 0 - 125 0	Tuumti (Min.)	AC 1,000V		

Materials

Conductor	Insulation	Supporting Tape
Copper, Au/Ni or Tin Plated	Polyester / Hot Melt	Polyester / Hot Melt

ltem	Pitch(mm)	Pin	Application	Item	Pitch(mm)	Pin	Application
	0,5	50P	Navigation	1	1.0	gp	Audio / HUD
	0,5	69P	TV	(i)	1,0	14P	Cluster

EMI Shielding & LVDS Cable

0.5mm Pitch / 1.0mm Pitch

Applications

- Navigation, D-Audio
 Head Up Display (HUD)
- ► TV ► Medical device

Characteristics

- ▶ Impedance
 ▶ S-Parameter
- EMI ShieldingEye Pattern
- It is FFC with high speed transmission,
- The conductor pitch of this product is 0,5mm / 1,0mm
- High speed transmission & EMI shielding is possible.

Specifications

Pitch(mm)	Pih	Current Rating	Temperature	Insulation Resistance	Dielectric Strength
0,5	2P-99P	0.5A	90°C - 125°C	100MΩ [Min_]	AC 300V
1,0	2P-49P	1_0A	90°C - 125°C	100MΩ [Min_]	AC 500V

Materials

Сорре	ry. Aw/Ni or Tin pl	ated	Poly	F	Fabric, Al-PET, Ag-PET		
Item	Pitch(mm)	Pin	Application	ltem:	Pitch(mm)	Pin	Application
S	0,5	40P	Navigation	1	0,5	51P	TV
- College	0,5	68P	D-Audio	-	1,0	30P	Audio/HUD

Power Cable

1.25mm Pitch / 2.0mm Pitch / 3.3mm Pitch / 4.0mm Pitch

Applications

- Door Scuff
 Cluster
- ▶ TV

Characteristics

- Signal Transmission
 Insulation
- ▶ Flexibility
- Corrosion Resistance



- This product can be used as a power supply wire.
- This is FFC that meets the use of the vehicle environment

Specifications

Pitch(mm)	Pin	Current Rating	Temperature	Insulation Resistance	Dielectric Strength
1,25	2P, 4P	0.4	000n 10F0n	100110 (14: 1	AC 500V
2.0	10P	2Д	90℃ - 125℃	100MΩ (Min.)	AC 500V
3,3	gP	2A	00to 105to	100140 (14: 1	AC 500V
4.0	2P	3A	90℃ - 125℃	100MΩ (Min.)	AC 1,000V

Materials

Coppery, Au/Ni or Tin plated			Poly		(*)		
ltem	Pitch(mm)	Pin	Application	ltem	Pitch(mm)	Pin	Application
	2,0	10P	TV	ing	1,25	4P	Lamp
/	4,0	2P	Door Scuff	The state of the s	3,3	gp	Battery

ETCS Card Socket

ETCS: Electronic Toll Collection System

- Application

 ▶ ECM for High-pass

 ▶ High-pass module

Characteristic

- ▶ Preventive structure for deformation
- ▶ Preventive structure for increasing widely solder
- ▶ Stable contact structure for Switch & Pin



- ▶ Reliability Test Specifications : UJU-CS01
- ▶ The terminal pitch 2.54mm
- ▶ This socket can use at the vehicle environment.

Specifications

Current Rating	Card insertion force	Button operation force	Durability	Temperature Range
1A	1.02kgf Max	1.02kgf Max	100,000Cycles	-30°C~85°C

Materials

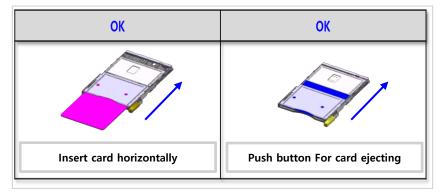
Materials	Press Item	Spring
LCP / PA46	Cooper Alloy / Stainless steel	Stainless steel

Pin	ltem	PN.	Size (mm) (W x H x L)
6P		KH2000018-20	91.40 x 4.75 x 60.00

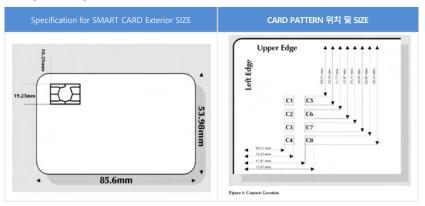
Product description

ETCS: Electronic Toll Collection System

- ▶ The excessive external force added to the connector can make serious injury or malfunction of the connector. Please be careful not to make deformation of the connector when you handle it.
- ▶ Please insert the card slowly. Too quick movement can cause serious damage on the entering part of connector and the card.



▶ Design considering the smallest card size



[See the Smartcard Standard ISO7816-2]

- ▶ The connector is only for using the smart card. Please do not insert any other cards.
- ▶ In card mating condition, please do not push the card hardly with excessive force.

Cover all process of product development

Product Development Process







Design

Development

alidation

Reliability Laboratory

▶ 100% Test Evaluation ability for Connector Specification







Combined Environment Test La

Durability Environment Test Lab, Durability Environment Test Lab,







Chemistry Test Lab.

Material Test & Analysis Lab

Accurate Measurement Lab,

Acquisition plan of reliability



Certificate







WORLD CLASS CONNECTOR COMPANY

UJU ELECTRONICS

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