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Part Number: 0022013047

Status: Active
Overview: KK®

Description: 2.54mm (.100") Pitch KK® Crimp Terminal Housing, Friction Ramp, 4 Circuits, Use with

2759|41572|6459

**Documents:** 

3D Model Product Specification PS-10-07 (PDF)

<u>Drawing (PDF)</u> <u>Related Catalog Page (PDF)</u>

General

Product Family Crimp Housings

 Series
 2695

 Overview
 KK®

 Product Name
 KK®

**Physical** 

Circuits (maximum) 4

Color - Resin Natural (White)

Flammability 94V-0 Gender Female Glow-Wire Compliant No Lock to Mating Part Yes Material - Resin Nylon Number of Rows Bag Packaging Type Panel Mount No Pitch - Mating Interface (in) 0.100 In Pitch - Mating Interface (mm) 2.54 mm Polarized to Mating Part Yes Stackable No

Temperature Range - Operating 0°C to +75°C

**Electrical** 

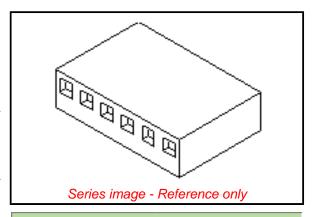
CSA LR19980 UL E29179

**Material Info** 

Old Part Number 2695-04RP

**Reference - Drawing Numbers** 

Product Specification PS-10-07 Sales Drawing SD-2695



EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Contains SVHC: No



# Need more information on product environmental compliance?

Email <u>productcompliance@molex.com</u>
Please visit the <u>Contact Us</u> section for any non-product compliance questions.

HFLH Halogen-Free

## **Search Parts in this Series**

2695 Series

#### **Mates With**

2.54mm (.100") Pitch KK® Crimp Terminal Housing, Friction Ramp, 4 Circuits, Use with 2759|41572|6459

#### **Use With**

KK® Crimp Terminal Housing 2695, 6471, 7880

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#### 1.0 SCOPE

This Product Specification covers the 2.54 mm (.100 inch) centerline (pitch) 0.64 mm (.025) square pin headers when mated with either printed circuit board (PCB) connectors or connectors terminated with 22 to 28 AWG wire using crimp technology.

#### 2.0 PRODUCT DESCRIPTION

#### 2.1 PRODUCT NAME AND SERIES NUMBERS

Crimp Terminals: 2759, 41572, 6459

Crimp Housings: 2695

PCB Connectors: 4455, 42625

Headers: 4030, 4094, 6373, 7478, 42225, 42226, 42227, 42228, 42152, 42153, 42375, 42376,

42377, 42624.

Other products conforming to this specification are noted on the individual drawings.

### 2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

Terminal Material: Brass or Phos. Bronze (for Max performance use phos bronze material.)

Housing: Nylon or Polyester Pins: Brass or Phos. Bronze

For more information on dimensions, materials, and plating see the individual drawings.

#### 2.3 SAFETY AGENCY APPROVALS

UL File Number E29179	
CSALR19980	)

#### 3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

None

#### 4.0 RATINGS

#### 4.1 VOLTAGE

250 Volts

**4.2 CURRENT AND APPLICABLE WIRES** (Current is dependent on connector size, contact material, plating, ambient temperature, printed circuit board characteristics and related factors. Actual current rating is application dependent and should be evaluated for each application.)

AWG	Amps (Max)	Outside Insulation Diamete
22	4.00	See Drawings
24	3.75	See Drawings
26	3.50	See Drawings
28	3.00	See Drawings

### 4.3 TEMPERATURE (ambient + 30° temp rise)

Operating: 0°C to +75°C Nonoperating: -40°C to +105°C

DEVISION: ECD/ECN INFORMATION: TITLE:

P3	EC No: UCP2008-0956  DATE: 11/6/2007		JCT SPECIFICATION TER KK CONNECT		1 of 5
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### **5.0 PERFORMANCE**

## **5.1 ELECTRICAL REQUIREMENTS**

DESCRIPTION	TEST CONDITION	REQUIREMENT
Contact Resistance (Low Level)	Mate connectors: apply a maximum voltage of 20 mV and a current of 100 mA.	10 milliohms MAXIMUM [initial]
Contact Resistance of Wire Termination (Low Level)	Terminate the applicable wire to the terminal and measure wire using a voltage of 20 mV and a current of 100 mA.	2 milliohms MAXIMUM [initial]
Insulation Resistance	Unmate & unmount connectors: apply a voltage of 500 VDC between adjacent terminals and between terminals to ground.	1000 Megohms MINIMUM
Dielectric Withstanding Voltage	Unmate connectors: apply a voltage of {two times the rated voltage plus 1000 volts} VAC for 1 minute between adjacent terminals and between terminals to ground.	No breakdown
Capacitance	Measure between adjacent terminals at 1 MHz.	2 picofarads MAXIMUM
Temperature Rise (via Current Cycling)	Mate connectors: measure the temperature rise at the rated current after:  1) 96 hours (steady state)  2) 240 hours (45 minutes ON and 15 minutes OFF per hour)  3) 96 hours (steady state)	Temperature rise: +30°C MAXIMUM

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## 5.2 MECHANICAL REQUIREMENTS

DESCRIPTION	TEST CONDITION	RE	QUIREME	NT
Connector Mate and Unmate Forces	Per circuit when mated to an .025 Sq. pin.  Mate and unmate connector (male to female) at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute.	MAXIM 0.5	5 N (0.438 UM insertic & 6 N (0.125 IM withdrav	on force
Terminal Retention Force (in Housing)	Axial pullout force on the terminal in the housing at a rate of $25 \pm 6$ mm ( $1 \pm \frac{1}{4}$ inch) per minute. (Forces will change with platings and materials.)		7.8 N (4.0 lb IM withdrav	
Terminal Insertion Force (into Housing)	Apply an axial insertion force on the terminal at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute. (Forces will change with platings and materials.)		67 N (1.5 lt UM insertic	
Durability	Mate connectors up to 25 cycles at a maximum rate of 10 cycles per minute prior to Environmental Tests.		iohms MA> nge from in	
Vibration (Random)	Mate connectors and vibrate per EIA 364-28, test condition VII.	(chan	iohms MA> ge from ini uity < 1 mid	tial) &
Shock (Mechanical)	Mate connectors and shock at 50 g's with ½ sine wave (11 milliseconds) shocks in the ±X,±Y,±Z axes (18 shocks total).	(chan	10 milliohms MAXIMUM (change from initial]) & Discontinuity < 1 microsecor	
Wire Pullout Force (Axial)	Apply an axial pullout force on the wire at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute. (For maximum performance use Molex application tooling with stranded tinned copper wire)	24 av 26 av 28 av	wg = 44 N ( wg = 35 N ( wg = 26 N ( wg = 17 N ( wg = 13 N (	8 lbf) 6 lbf) 4 lbf)
Normal Force	Apply a perpendicular force.	2.94 N (3	300 grams)	average
			Maximum Insertion force (per pin)	Average Insertion force (per pin)
Kinked PC Pin Insertion Force (into PCB Hole)	Apply an axial insertion force on pins at a rate of $25 \pm 6$ mm $(1 \pm \frac{1}{4})$ inch) per minute.	2	44.0 N (9.9 lbf)	15.1N (3.4 lbf)
(		4	21.4 N (4.8 lbf)	9.8 N (2.2 lbf)
		6	18.2 N (4.1 lbf)	4.9 N (1.1 lbf)

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## 5.3 ENVIRONMENTAL REQUIREMENTS

DESCRIPTION	TEST CONDITION	REQUIREMENT
Shock (Thermal)	Mate connectors; expose to 5 cycles of:         Temperature °C       Duration (Minutes)         -40 +0/-3       30         +25 ±10       5 MAXIMUM         +105 +3/-0       30         +25 ±10       5 MAXIMUM	10 milliohms MAXIMUM (change from initial) & Visual: No Damage
Thermal Aging	Mate connectors; expose to: 96 hours at 105 ± 2°C	10 milliohms MAXIMUM (change from initial]) & Visual: No Damage
Humidity (Steady State)	Mate connectors: expose to a temperature of 40 ± 2°C with a relative humidity of 90-95% for 96 hours.  Note: Remove surface moisture and air dry for 1 hour prior to measurements.	10 milliohms MAXIMUM (change from initial) & Dielectric Withstanding Voltage: No Breakdown at 500 VAC & Insulation Resistance: 1000 Megohms MINIMUM & Visual: No Damage
Humidity (Cyclic)	Mate connectors: cycle per EIA-364-31: 24 cycles at temperature 25 ± 3°C at 80 ± 5% relative humidity and 65 ± 3°C at 50 ± 5% relative humidity; dwell time of 1.0 hour; ramp time of 0.5 hours.  {Note: Remove surface moisture and air dry for 1 hour prior to measurements.}	10 milliohms MAXIMUM (change from initial) & Dielectric Withstanding Voltage: No Breakdown at 500 VAC & Insulation Resistance: 1000 Megohms MINIMUM & Visual: No Damage
Solderability	Per SMES-152	Solder coverage: 95% MINIMUM (per SMES-152)

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## **5.3 ENVIRONMENTAL REQUIREMENTS**

DESCRIPTION	TEST CONDITION	REQUIREMENT
Solder Resistance	Dip connector terminal tails in solder: Solder Duration: 5 ± 0.5 seconds; Solder Temperature: 230 ± 5°C	Visual: No Damage to insulator material
Cold Resistance	Mate connectors: Duration: 96 hours; Temperature: -40 ± 3°C	10 milliohms MAXIMUM (change from initial) & Visual: No Damage
Corrosive Atmosphere: Flowing Mixed Gas (FMG)	Test per EIA-364-65, Class II, Exposure to gasses for 4 days, unmated.	10 milliohms MAXIMUM (change from initial) & Visual: No Damage

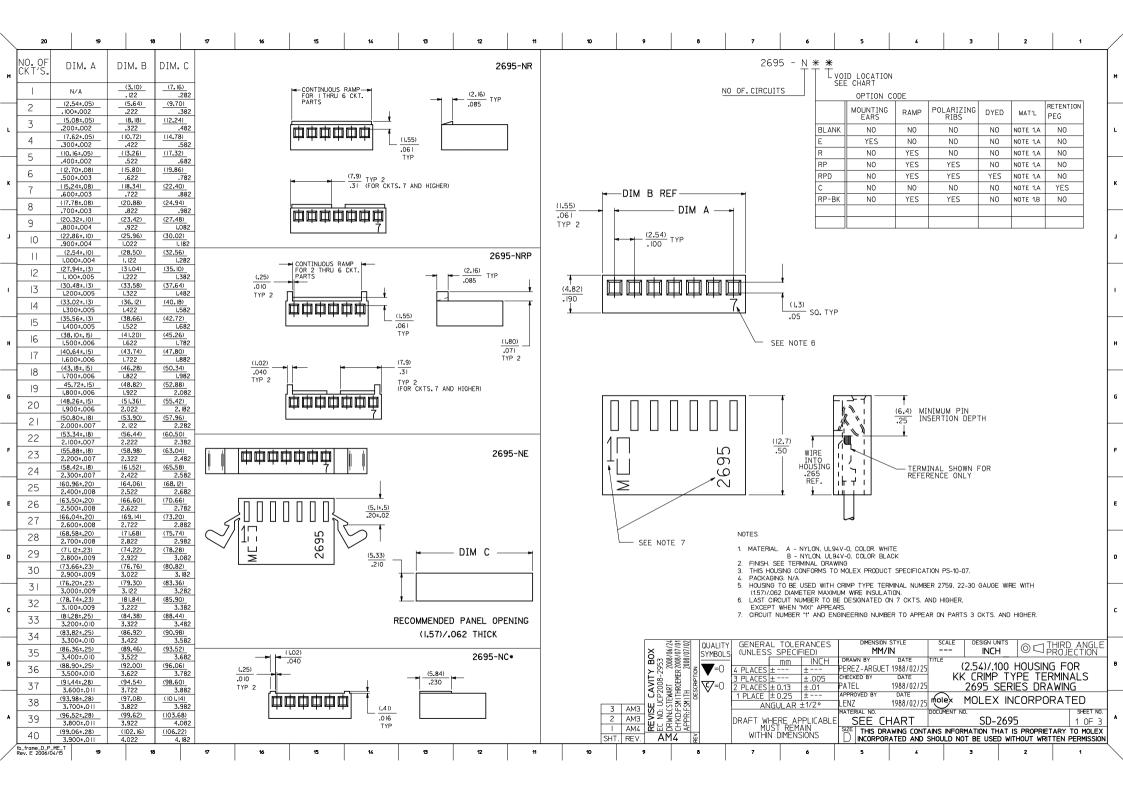
### 6.0 PACKAGING

Parts shall be packaged to protect against damage during handling, transit and storage.

7.0 GAGES AND FIXTURES

- 8.0 OTHER

P3	ECR/ECN INFORMATION: EC No: UCP2008-0956  DATE: 11/6/2007		JCT SPECIFICATION TER KK CONNECT		5 of 5
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	2695-N		2695-NE		2695-NR		2695-NRP	2	695-NRPD	2699	5-NRP-BK	
	ENG NO. VOID	PART NO.	ENG NO. VO	ID PART NO.		/OID PART NO.	ENG NO.	VOID PART NO.	ENG NO.	VOID PART NO.	ENG NO.	VOID
22-01-2011		22-01-2022	2695-IE 2695-2E	22-01-2027	2695-IR 2695-2R	N/A 22-01-3027	2695- IRP	N/A	2695- IRPD 2695-2RPD	50-20-1557	2695-2RP-BK	
		22 01 2072	2005 75	22-01-2037	2695-3R	22-01-3027 22-01-3037 22-01-3047 22-01-3067 22-01-3067 22-01-3077 22-01-3097 22-01-3097 22-01-3107	2695-3RP		2695-3RPD	50-29-1558	2695-3RP-BK 2695-4RP-BK 2695-5RP-BK	
2-01-2031 2-01-2041	2695-4		2695-3E 2695-4E 2695-5E 2695-6E 2695-7E	22-01-2037 22-01-2047 22-01-2057	2695-4R	22-01-3047	2695-4RP	22-32-2051	2695-4RPD	50-29-1559	2695-4RP-BK	
2-01-2051 2-01-2061	2695-5		2695-5E	22-01-2057	2695-5R	22-01-3057	2695-5RP	22-32-2051	2695-5RPD	50-29-1560	2695-5RP-BK	
2-01-2061	2695-6		2695-6E			22-01-3067	2695-6RP		2695-6RPD 2695-7RPD			
2-01-2071	2695-7	22-01-2072	2695-7E	22-01-2077 22-01-2087 22-01-2097 22-01-2107	2695-7R	22-01-3077	2695-7RP		2695-7RPD	50-29-1562	2695-7RP-BK 2695-8RP-BK 2695-9RP-BK 2695-19RP-BK	
2-01-2081 2-01-2091	2695-8		2695-8E 2695-9E 2695-IOE	22-01-2081	2695-8R	22-01-3087	2695-8KP		2695-8RPD	50-29-1563	2695-8KP-BK	
2-01-2101	2695-ID		2695-INF	22-01-2107	2695-IOR	22-01-3107	2695- IORP	22-32-2101	2695- IORPD	50-29-1565	2695-IORP-BK	
2-01-2111	2695-11		2695-1IE 2695-12E 2695-13E	22-01-2117 22-01-2127 22-01-2137	2695-IIR			1 22 32 2.31	2695- IIRPD 2695- I2RPD 2695- I3RPD	50-29-1566	2695-1IRP-BK 2695-12RP-BK 2695-13RP-BK	
2-01-2121 2-01-2131	2695-I2		2695-I2E	22-01-2127	2695-I2R	22-01-3127 22-01-3137	2695-I2RP		2695- I2RPD	50-29-1567	2695-I2RP-BK	
			2695-I3E	22-01-2137	2695-I3R				2695-I3RPD	50-29-1568	2695-I3RP-BK	
2-01-2141	2695-14		2695-I4E	11 122-01-2147 1	12695-14R I	22-01-3147	2695- I4RP		12695-14RPU I	50-29-1569	2695-14RP-BK 2695-15RP-BK 2695-16RP-BK 2695-17RP-BK	
2-01-2151	2695-16 2695-16	- $+$ $ +$	2695-I5E 2695-I6E	22-01-2157 22-01-2167	2695-15R	22-01-3157 22-01-3167	2695-15RP		2695- I5RPD 2695- I6RPD	50-29-1570	2695-15RP-BK	
2-01-2161		<del></del>	2695-17F	22-01-2107	2695-17R	22-01-3161	2695-17RP		2695- IZRPD	50-23-15 (1	2695-17RP-RK	
2-01-2181	2695-18		2695-17E 2695-18E 2695-19E	22-01-2177 22-01-2187 22-01-2197	2695-I8R	22-01-3161 22-01-3177 22-01-3187 22-01-3197	2695- I8RP		2695-17RPD 2695-18RPD 2695-19RPD	50-29-1573	2695-18RP-BK	
2-01-2191	2695-19		2695-I9E	22-01-2197	2695-I9R	22-01-3197	2695- I9RP		2695- I9RPD	50-29-1574	2695-18RP-BK 2695-19RP-BK	
2-01-2201 2-01-2211	2695-20		2695-20E 2695-21E	22-01-2207 22-01-2217	2695-20R	22-01-3207 22-01-3217	2695-20RP		2695-20RPD 2695-21RPD	50-29-1575	2695-20RP-BK 2695-2 IRP-BK	
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-01-2241	2695-24	-	2695-24F	22-01-2237	2695-24R	22-01-3237	2695-24DD		2695-24PPD	SU-29-15 (8	2695-24RD-RV	
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-01-2271	2695-27		2695-27E	22-01-2267 22-01-2277	2695-27R	22-01-3277	2695-27RP		2695-27RPD	50-29-1582	2695-27RP-BK	
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