

Molex 41661-0023 PDF

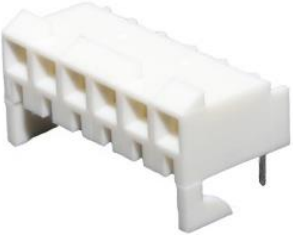
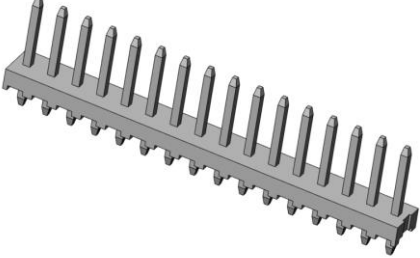
深圳创唯电子有限公司

<http://www.molex-connect.com>

KK 396 /.156

WIRE-TO-BOARD BOARD-TO-BOARD CONNECTOR SYSTEM

Crimp Terminals	Crimp Housings
	
Series: 2478 , 2578 , 2878 , 2477 , 8818	Series: 2139 , 41695 , 3069

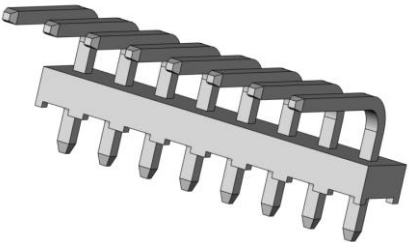

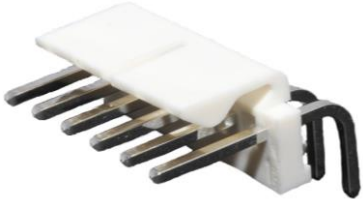

PCB Connector	Vertical Header Without Peg
	
Series: 41815	Series: 41771



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	CHECKED BY: ISHWARG	APPROVED BY: ISHWARG	

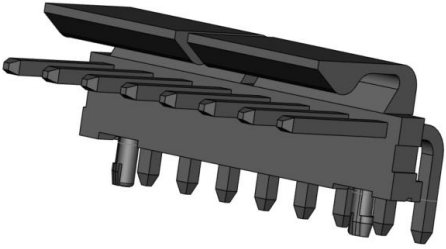

Right Angle Header Without Peg	Vertical Header with Friction Lock
	
Series: 41772	Series: 41791
Right Angle Header with Friction Lock	Vertical Header With press fit plastic Peg
	
Series: 41792	Series: 42491, 42891

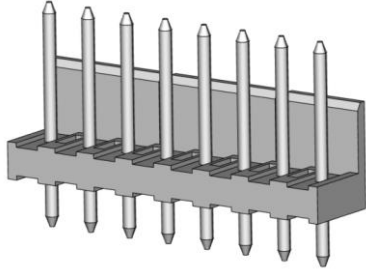
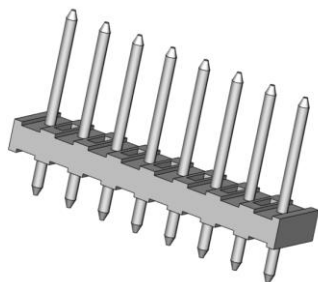


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Right Angle Header With press fit plastic Peg	Right Angle Break away Header
	
Series: 42492 , 42892	Series: 41662 , 172173



Vertical header with round pin and Polarizing Wall	Vertical header with round pin
	
Series: 3190	Series: 3192

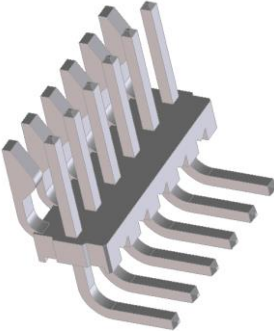


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Vertical break away header	Vertical break away header with Friction Lock
	
Series: 41661	Series: 41671

Right angle break away header with Friction Lock

Series: 41672



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1.0 SCOPE

This Product Specification covers the 3.96 mm (.156 inch) centerline (pitch) 1.14mm (.045) square pin headers when mated with either printed circuit board (PCB) connectors or connectors terminated with 18 to 26 AWG wire using crimp technology.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME AND SERIES NUMBER (S)

Description	Series Number
Crimp Terminals	2478, 2578, 2878, 2477, 8818
Crimp Housings	2139, 41695, 3069
PCB Connectors	41815
Vertical Header without Peg	41771
Right angle Header without peg	41772
Vertical Header with Friction Lock	41791
Right Angle Header with Friction Lock	41792
Vertical Header with press fit plastic Peg	42491, 42891
Right Angle Header with press fit plastic Peg	42492, 42892
Vertical Break away Header	41661, 41671
Right Angle Break away Header	41662, 172173
Right angle break away header with Friction Lock	41672
Vertical header with Round Pin with Polarizing Wall	3190
Vertical header with Round Pin without Polarizing Wall	3192

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



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2.2 DIMENSIONS, MATERIALS, PLATING AND MARKINGS

Terminal Material: Brass or Phos. Bronze (for Max performance use phos bronze material.)
 Housing: Nylon or Polyester
 Pins: Brass
 For more information on dimensions, materials, and plating see the individual drawings.

Material: RoHS compliant materials.

**Refer to the "Product Environmental Compliance" section in Molex.com to know the individual PN RoHS compliance status*

2.3 SAFETY AGENCY APPROVALS

UL File Number E29179
 CSALR19980

SERIES	Agency Voltage Rating (AC RMS or DC) except as noted		Agency Current Rating (Single Circuit) (Amps)		Agency Temperature Rating (°C)
	UL	CSA	UL	CSA	UL
2139	600	250	-	7	105°C
41661	600	250	-	7	105°C
41662	600	250	-	7	105°C
41671	600	250	-	7	105°C
41672	600	250	-	7	105°C
41695	600	250VAC	-	7	105°C
41771	600	250	-	7	105°C
41772	600	250	-	7	105°C
41791	600	250	-	7	105°C
41792	600	250	-	7	105°C
41815	600	250	-	5	105°C
42491	600	250	-	7	105°C
42492	600	250	-	7	105°C

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



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3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

3.1 MOLEX DOCUMENTS

See series specific sales drawings and the other sections of this specifications for the necessary referenced documents and specifications.

Cosmetic Specification PS-45499-002

[Molex Quality Crimping Handbook Order No. 63800-0029](#)

[Molex Solderability Specification SMES-152](#)

[Molex Heat Resistance Specification AS-40000-5013](#)

[Molex Moisture Technical Advisory AS-45499-001](#)

[Molex Package Handling Specification 454990100-PK](#)

3.2 INDUSTRY DOCUMENTS

EIA-364-1000.01

UL-1977

CSA STD. C22.2 NO. 182.3-M1987

4.0 ELECTRICAL PERFORMANCE RATINGS

4.1 VOLTAGE*

600 Volts AC (RMS) or 600 Volts DC max.

4.2 MAXIMUM CURRENT RATING

NOTE : 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

a. For Crimp Terminals- and Applicable Wires

Wire Awg	Amps (Max) With Brass Terminals	Amps (Max) With Phos Bronze Terminals	Wire Insulation Diameter
18	5.00	7.00	See terminal drawings
20	4.75	6.25	See terminal drawings
22	4.50	5.50	See terminal drawings
24	4.25	5.00	See terminal drawings
26	4.00	4.50	See terminal drawings

Note: current ratings are for a single circuit, based on not exceeding 30°C temperature rise



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b. For Printed Circuit Board Connectors

Connector Style	Amps (Max) With Brass Terminals	Amps (Max) With Phos Bronze Terminals
Top Entry	4.50	5.00
Right Angle	4.50	5.00
Bottom Entry	4.00	4.50

Note: current ratings are for a single circuit, based on not exceeding 30°C temperature rise

4.3 TEMPERATURE

	Brass Terminals	Phos Bronze Terminals
Operating Temperature	-40°C to +80°C*	-40°C to +105°C*
Non-Operating Temperature	-40°C to +105°C**	-40°C to +105°C

*including terminal temperature rise. **parts not mated.

4.4 DURABILITY

Tin / Gold plated: 25 mating cycles

As tested in accordance with EIA-364-1000.01 test method (see Sec. 6.2 of this specification).

5.0 QUALIFICATION

Laboratory conditions and sample selection are in accordance with EIA-364-1000.01



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6.0 PERFORMANCE

6.1 ELECTRICAL PERFORMANCE

ITEM NO.	ITEM	TEST CONDITION	REQUIREMENT
1	Contact Resistance (Low Level)	Mate connectors: apply a maximum voltage of 20 mV and a current of 100 mA.	10 milliohms MAXIMUM [initial]
2	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]
3	Insulation Resistance	Unmate & unmount connectors: apply a voltage of 500 VDC between adjacent terminals and between terminals to ground.	1000 Megohms MINIMUM
4	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
5	Capacitance	Measure between adjacent terminals at 1 MHz.	1.2 picofarads MAXIMUM
6	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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6.2 MECHANICAL PERFORMANCE

ITEM NO.	ITEM	TEST CONDITION	REQUIREMENT
1	Connector Mate and Unmate Forces	Per circuit when mated to a .045 Sq. pin. Mate and Unmate connector (male to female) at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute.	<u>Without Friction Lock</u> 15.6 N (3.5 lbf) MAXIMUM insertion force & 1.8 N (0.40 lbf) MINIMUM withdrawal force
			<u>With Friction Lock</u> 16.8 N (3.78 lbf) MAXIMUM insertion force & 4.0 N (0.90 lbf) MINIMUM withdrawal force
2	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 plating's and materials.)	17.8 N (4.0 lbf) MAXIMUM insertion force
3	Terminal Retention Force (in Housing)	Axial pullout force on the terminal in the housing at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute. (Forces will change with plating's and materials.)	35.6 N (8.0 lbf) MINIMUM withdrawal force
4	Durability	Mate connectors up to 25 cycles at a maximum rate of 10 cycles per minute prior to Environmental Tests.	10 milliohms MAXIMUM (change from initial)
5	Vibration (Random)	Mate connectors and vibrate per EIA 364-28, test condition VII.	10 milliohms MAXIMUM (change from initial) & Discontinuity < 1 microsecond
6	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).	10 milliohms MAXIMUM (change from initial]) & Discontinuity < 1 microsecond



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MECHANICAL PERFORMANCE (CONTD.)			
ITEM NO.	ITEM	TEST CONDITION	REQUIREMENT
7	Wire Pullout Force (Axial)	Apply an axial pullout force on the wire at a rate of 25 ± 6 mm ($1 \pm \frac{1}{4}$ inch) per minute. (For maximum performance use Molex application tooling with stranded tinned copper wire)	Wire pullout force depends on crimp tooling. See relevant Molex Application Tooling Specification for requirements.
8	Normal Force	Apply a perpendicular force.	7.34 N (748 grams) average

6.3 ENVIRONMENTAL PERFORMANCE

ITEM NO.	ITEM	TEST CONDITION	REQUIREMENT	
1	Shock (Thermal)	Mate connectors; expose to 5 cycles of:	10 milliohms MAXIMUM (change from initial) & Visual: No Damage	
		<u>Temperature</u> °C		<u>Duration</u> (Minutes)
		-40 °C +0/-3		30
		+25 °C ± 10		5 MAXIMUM
		+105 °C +3/-0		30
2	Thermal Aging	Mate connectors; expose to: 96 hours at $105 \pm 2^\circ\text{C}$	10 milliohms MAXIMUM (change from initial) & Visual: No Damage	
3	Humidity (Steady State)	Mate connectors: expose to a temperature of $40 \pm 2^\circ\text{C}$ 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	



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ENVIRONMENTAL PERFORMANCE (CONTD.)			
ITEM NO.	ITEM	TEST CONDITION	REQUIREMENT
4	Humidity (Cyclic)	Mate connectors: cycle per EIA-364-31: 24 cycles at temperature $25 \pm 3^\circ\text{C}$ at $80 \pm 5\%$ relative humidity and $65 \pm 3^\circ\text{C}$ at $50 \pm 5\%$ 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
5	Solderability	Per SMES-152	Solder coverage: 95% MINIMUM (per SMES-152)
6	Solder Resistance	Dip connector terminal tails in solder: Solder Duration: 5 ± 0.5 seconds; Solder Temperature: $230 \pm 5^\circ\text{C}$	Visual: No Damage to insulator material
7	Cold Resistance	Mate connectors: Duration: 96 hours; Temperature: $-40 \pm 3^\circ\text{C}$	10 milliohms MAXIMUM (change from initial) & Visual: No Damage
8	Corrosive Atmosphere: Flowing Mixed Gas (FMG)	Mate connectors: Test per EIA-364-65, method 2A	10 milliohms MAXIMUM (change from initial) & Visual: No Damage



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7.0 SOLDER INFORMATION

[Molex Solderability Specification SMES-152](#)
([Click Here](#))

7.1 SOLDER PROCESS TEMPERATURES

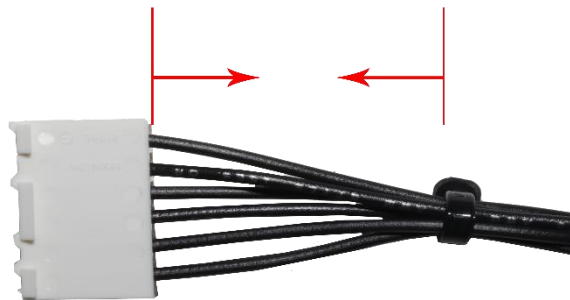
Wave Solder: 235°C Max

8.0 PACKAGING

Parts shall be packaged to protect against damage during normal handling, transit and storage. Refer Molex.com specific part number webpage to get the exact packaging document for that item.

9.0 CABLE TIE AND/OR WIRE TWIST LOCATION

Circuit Sizes			Dimension T Minimum
2	4	6	0.50" (12.7mm)
	8		0.75" (19.1mm)
10		12	1.00" (25.40mm)
14		16	1.25" (31.75mm)
18		20	1.50" (38.09mm)
22		24	1.75" (44.45mm)



The "T" dimension defines a "free" length of wire, or a length of wire that is not subject to significant bias by external factors such as a wire tie, wire twisting, or other means of bending or deforming of the wires that repositions them from their natural relaxed state or location where they enter the housing. Wires are to be dressed in such a manner to allow the terminals to float freely in the pocket. This dimension is general recommendation and may need to be adjusted for different wire gauges and wire type and insulation thickness and insulation material.



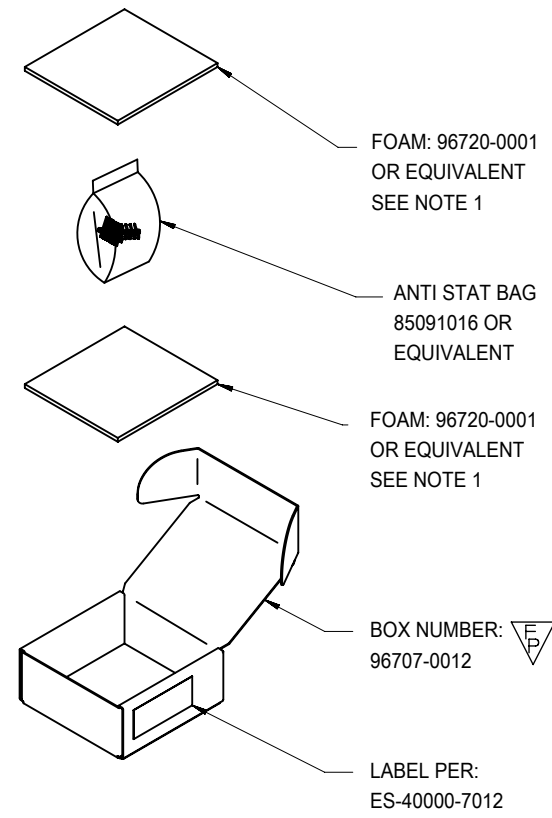
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	CHECKED BY: ISHWARG	APPROVED BY: ISHWARG	

PARTS WITH PIN LENGTH UP TO 1.599"					
CKTS	PARTS PER 96707-0012 EP	PARTS PER MASTER CARTON 96708-0004 DU	PARTS PER MASTER CARTON 96708-0002 DU	PARTS PER MASTER CARTON 96708-0007 DU	PARTS PER MASTER CARTON 96708-0008 DU
2	1000	6000	12000	8000	16000
3	1000	6000	12000	8000	16000
4	800	4800	9600	6400	12800
5	600	3600	7200	4800	9600
6	400	2400	4800	3200	6400
7	300	1800	3600	2400	4800
8	300	1800	3600	2400	4800
9	250	1500	3000	2000	4000
10	200	1200	2400	1600	3200
11	200	1200	2400	1600	3200
* 12-24	SEE SHEET 2				

PARTS WITH PIN LENGTH OVER 1.600"					
CKTS	PARTS PER 96707-0012 EP	PARTS PER MASTER CARTON 96708-0004 DU	PARTS PER MASTER CARTON 96708-0002 DU	PARTS PER MASTER CARTON 96708-0007 DU	PARTS PER MASTER CARTON 96708-0008 DU
4	400	2400	4800	3200	6400




NOTES:


- USE ENOUGH FOAM IN EACH BOX TO PREVENT THE PARTS FROM RATTLING INSIDE THE BOX.
- 2-11 CKT PARTS MAY HAVE RANDOM ORIENTATION.
12-24 CKT PARTS MUST BE ALIGNED IN BAG.
- 96707-0012 BOX FITS INTO THE FOLLOWING CARTONS.
96708-0004 HOLDS 06 96707-0012's
96708-0002 HOLDS 12 96707-0012's
96708-0007 HOLDS 08 96707-0012's
96708-0008 HOLDS 16 96707-0012's

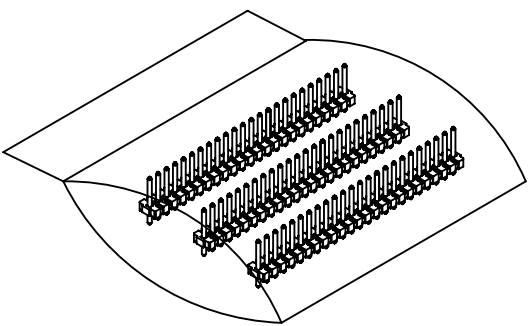
SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
	DIMENSION UNITS		SCALE		CURRENT REV DESC: DRAWING UPDATION	
	IN NTS					
	GENERAL TOLERANCES (UNLESS SPECIFIED)					
▽ = 0		MM	INCH	EC NO: 612141		
▽ = 0				DRWN: SS06 2019/01/28		
▽ = 4				CHK'D: ISHWARG 2019/02/15		
▽ = 0	4 PLACES ±			APPR: ISHWARG 2019/02/15		
▽ = 0	3 PLACES ±			INITIAL REVISION:		
▽ = 0	2 PLACES ±			DRWN: KSAMIEC 2001/11/19		
▽ = 0	1 PLACE ±			APPR: YMARGULI 2001/11/19		
▽ = 0	0 PLACES ±			DOCUMENT NUMBER		
▽ = 0	ANGULAR TOL ± °			PK-41661-001		
▽ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION		DOC TYPE DOC PART REVISION		
		DRAWING		PDD 001 D2		
		SERIES		SHEET NUMBER		
		A4-SIZE		1 OF 2		
		41661				
		NA		GENERAL MARKET		

DOCUMENT STATUS	P1	RELEASE DATE	2019/02/15	12:20:54
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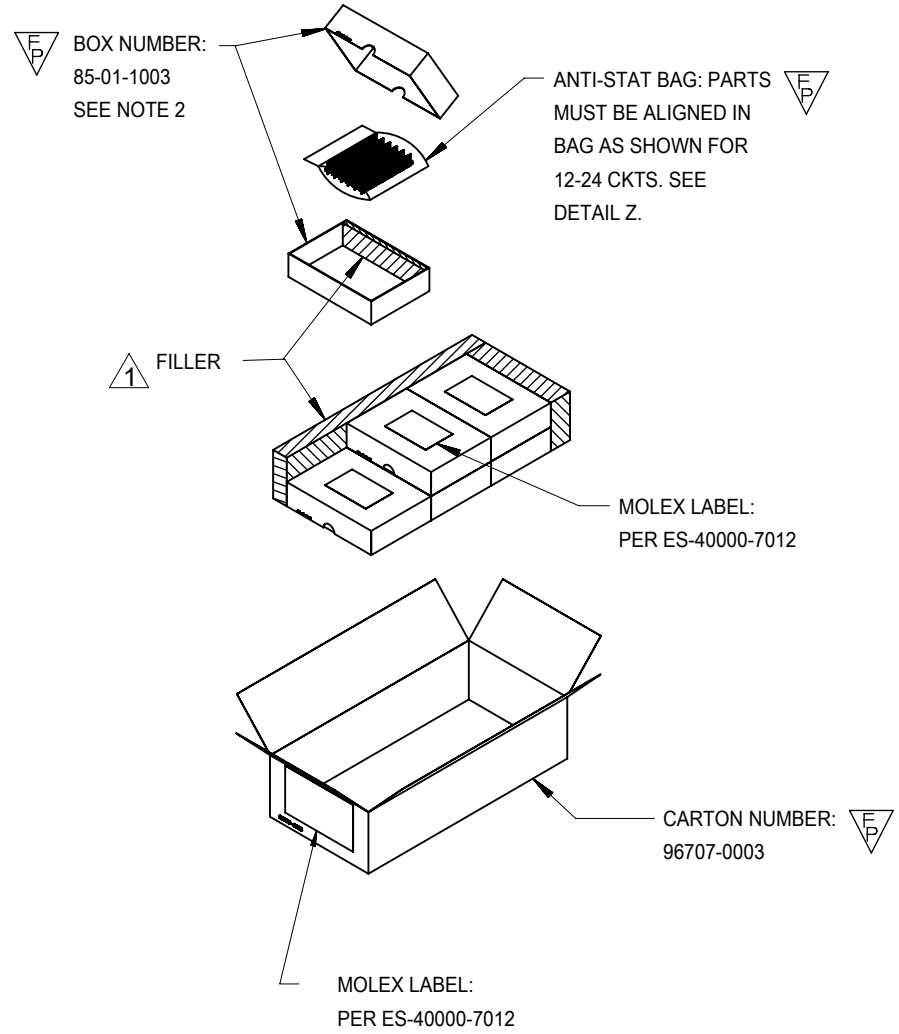
CKTS	PARTS PER BAG	BAGS PER INNER CARTON 85-01-1003	PARTS PER 96707-0003 BOX DU 
12	50	1	300
13	50	1	300
14	50	1	300
15	50	1	300
16	50	1	300
17	50	1	300
18	50	1	300
19	50	1	300
20	50	1	300
21	50	1	300
22	50	1	300
23	50	1	300
24	25	1	150












NOTES:

-  USE ENOUGH FILLER IN EACH BOX TO PREVENT THE PARTS FROM RATTLING.
USE ENOUGH FILLER IN EACH CARTON TO PREVENT THE BOXES FROM RATTLING.
- 2. 96707-0003 CARTON HOLDS 06 85-01-1003 INNER BOXES



DETAIL Z



THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
SYMBOLS		DIMENSION UNITS		SCALE		CURRENT REV DESC: DRAWING UPDATION			
 = 0	IN		NTS		<p>EC NO: 612141 DRWN: SS06 2019/01/28 CHK'D: ISHWARG 2019/02/15 APPR: ISHWARG 2019/02/15</p> <p>INITIAL REVISION: DRWN: KSAMIEC 2001/11/19 APPR: YMARGULI 2001/11/19</p>				
 = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)								
 = 3	ANGULAR TOL ± °								
 = 0	4 PLACES	±							
 = 0	3 PLACES	±							
 = 0	2 PLACES	±							
 = 0	1 PLACE	±							
 = 0	0 PLACES	±							
 = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS								
		THIRD ANGLE PROJECTION 		DRAWING 					
		A4-SIZE		41661		PK-41661-001		DOC TYPE DOC PART REVISION	
		NA		GENERAL MARKET		PDD 001		D2	
		2 OF 2							

FORMAT: master-ib-proof-A4
REVISION: H
DATE: 2018/01/18