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Part Number: [0026481043](#)
Status: **Active**
Description: 3.96mm (.156") Pitch KK® Header, Breakaway, Vertical, Polarizing Wall, 4 Circuits, Tin (Sn) Plating

Documents:

3D Model	Product Specification PS-08-50 (PDF)
Packaging Specification (PDF)	RoHS Certificate of Compliance (PDF)
Drawing (PDF)	

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	PCB Headers
Series	41681
Application	Wire-to-Board
Product Name	KK®

Physical

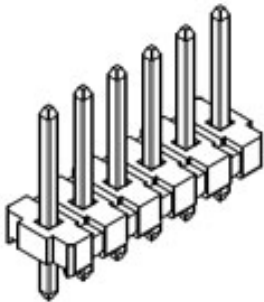
Breakaway	Yes
Circuits (Loaded)	4
Circuits (maximum)	4
Color - Resin	Black
Durability (mating cycles max)	25
Flammability	94V-0
Glow-Wire Compliant	No
Lock to Mating Part	None
Material - Metal	Brass
Material - Plating Mating	Tin
Material - Resin	Polyester
Number of Rows	1
Orientation	Vertical
PC Tail Length (in)	0.172 In
PC Tail Length (mm)	4.37 mm
PCB Locator	No
PCB Retention	None
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Bag
Pitch - Mating Interface (in)	0.156 In
Pitch - Mating Interface (mm)	3.96 mm
Polarized to Mating Part	No
Polarized to PCB	No
Shrouded	No
Stackable	No
Temperature Range - Operating	0°C to +75°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	7A
Voltage - Maximum	250V

Solder Process Data

Lead-free Process Capability	Wave Capable (TH only)
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Series

image - Reference only

EU RoHS

**ELV and RoHS
Compliant**

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

China RoHS



**Need more information on product
environmental compliance?**

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of
Compliance, [click here](#)

Please visit the [Contact Us](#) section for any
non-product compliance questions.

Search Parts in this Series

[41681](#)Series

Mates With

[3069](#) , [2139](#) , [2145](#) , [6442](#) , [7674](#) , [7675](#) ,
[41695](#) , L ink:41815

Material Info

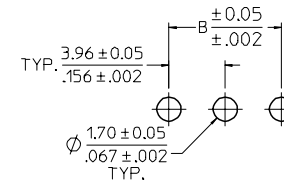
Old Part Number41681A04A102

Reference - Drawing Numbers

Product SpecificationPS-08-50
Sales DrawingSD-41681-001

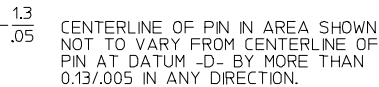
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Technical drawing of a multi-pin connector assembly. The drawing shows a side view of the assembly with several pins. Key dimensions and labels include:

- A**: Overall length of the assembly.
- B**: Distance from the left edge to the center of the first pin.
- 3.96**: Distance between the centers of the first and second pins.
- .156**: Distance from the left edge to the center of the first pin.
- CIRCUIT 1**: Label pointing to the first pin.
- 3.25 TYP.**: Typical distance between the centers of the pins.
- .128**: Distance from the bottom edge to the center of the pins.
- 1.14/.045 SQ PIN**: Label pointing to the pins, indicating a square pin with a side length of 1.14 inches and a wall thickness of .045 inches.
- OPTIONAL VOIDED CKT.**: Label pointing to the central voided area, with a note "SEE CHART FOR LOCATIONS."
- SEE DETAIL "Z"**: Label pointing to a detail of the pin base.
- D-**: Label in a box pointing to the central voided area.



2. FINISH:
 (102) = OVERALL TIN: (0.00508)/.000200 MIN.
 OVERALL COPPER UNDERCOAT: (0.00254)/.000100 MIN.
 (208) = SELECT GOLD: (0.00038)/.000015 MIN. OVER
 SELECT TIN: (0.00254)/.000100 MIN. OVER
 NICKEL OVERALL: (0.000127)/.000050 MIN.
 (228) = SELECT GOLD: (0.00076)/.000030 MIN.
 SELECT TIN: (0.00254)/.000100 MIN.
 OVER NICKEL OVERALL: (0.00127)/.000050 MIN.
 (501) = OVERALL GOLD: (0.00051)/.000020 MIN.
 OVER NICKEL OVERALL: (0.00076)/.000030 MIN.
 (503) = OVERALL GOLD: (0.00076)/.000030 MIN.
 OVER NICKEL OVERALL: (0.00127)/.000050 MIN.

7. PARTS ARE STACKABLE END TO END ON 3.96156 CENTERS. (SPACING TABS MUST BE REMOVED ON CIRCUIT SIZES 1-23 BEFORE PARTS ARE STACKABLE.)

— VOID LOCATIONS
BLANK=NO VOIDS
NO.=CKT NO. VOIDED
MULT-VOIDS=51 UP

2-*	S2
1	S2
SHT.	REV.

REVISED / REDRAWN EC NO: UCP2006-2983 CHKD BY: 0706/08/02 CHKD BY: 0706/08/03 APPR: FSW TH 0706/08/04	DESCRIPTION	QUALITY SYMBOLS ▼=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION 		
			mm	INCH	DRAWN BY DATE SAMIEC 08/09/85	TITLE KK .156 HEADER ASSEMBLY POLARIZING STRAIGHT 2-24 CKTS.					
			3 PLACES ±.000 ±.006	CHECKED BY DATE PATEL 08/09/85	MOLEX MOLEX INCORPORATED						
			2 PLACES ±0.15 ±.010	APPROVED BY DATE LENZ 08/09/85							
			1 PLACE ±0.25 ±.000	MATERIAL NO.		DOCUMENT NO.	SHEET NO.				
S2	REV		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-41681-001		1 OF *		
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											

ENG. NO: A-41681-ANA102-*				ENG. NO: A-41681-ANA501-*				ENG. NO: A-41681-ANC102-*			
PIN NUMBER		2161-1(102)		PIN NUMBER		2161-1(501)		PIN NUMBER		2161-56(102)	
PLATING		102		PLATING		501		PLATING		102	
DIM. L		(19.05)/.750		DIM. L		(19.05)/.750		DIM. L		(17.86)/.703	
DIM. X		(11.43)/.450		DIM. X		(11.43)/.450		DIM. X		(11.43)/.450	
DIM. G (GOLD)		N/A		DIM. G (GOLD)		OVERALL		DIM. G (GOLD)		N/A	
DIM. Z		(4.37)/.172		DIM. Z		(4.37)/.172		DIM. Z		(3.18)/.125	
DIM. T (TIN)		OVERALL		DIM. T (TIN)		N/A		DIM. T (TIN)		OVERALL	
PACKAGING		PK-41681-001 (BULK)		PACKAGING		PK-41681-001 (BULK)		PACKAGING		PK-41681-001 (BULK)	
CKTS	EDP NO.	ENG. NO.	VOIDS	CKTS	EDP NO.	ENG. NO.	VOIDS	CKTS	EDP NO.	ENG. NO.	VOIDS
02	26-48-1023	A-41681-A2A102		02	26-48-2023	A-41681-A2A501		02	26-48-7025	A-41681-A2C102	
03	26-48-1033	A-41681-A3A102		03	26-48-2033	A-41681-A3A501		03	26-48-7035	A-41681-A3C102	
04	26-48-1043	A-41681-A4A102		04	26-48-2043	A-41681-A4A501		04	26-48-7045	A-41681-A4C102	
05	26-48-1053	A-41681-A5A102		05	26-48-2053	A-41681-A5A501		05	26-48-7055	A-41681-A5C102	
06	26-48-1063	A-41681-A6A102		06	26-48-2063	A-41681-A6A501		06	26-48-7065	A-41681-A6C102	
07	26-48-1073	A-41681-A7A102		07	26-48-2073	A-41681-A7A501		07	26-48-7075	A-41681-A7C102	
08	26-48-1083	A-41681-A8A102		08	26-48-2083	A-41681-A8A501		08	26-48-7085	A-41681-A8C102	
09	26-48-1093	A-41681-A9A102		09	26-48-2093	A-41681-A9A501		09	26-48-7095	A-41681-A9C102	
10	26-48-1103	A-41681-A10A102		10	26-48-2103	A-41681-A10A501		10	26-48-7105	A-41681-A10C102	
11	26-48-1113	A-41681-A11A102		11	26-48-2113	A-41681-A11A501		11	26-48-7115	A-41681-A11C102	
12	26-48-1123	A-41681-A12A102		12	26-48-2123	A-41681-A12A501		12	26-48-7125	A-41681-A12C102	
13	26-48-1133	A-41681-A13A102		13	26-48-2133	A-41681-A13A501		13	26-48-7135	A-41681-A13C102	
14	26-48-1143	A-41681-A14A102		14	26-48-2143	A-41681-A14A501		14	26-48-7145	A-41681-A14C102	
15	26-48-1153	A-41681-A15A102		15	26-48-2153	A-41681-A15A501		15	26-48-7155	A-41681-A15C102	
16	26-48-1163	A-41681-A16A102		16	26-48-2163	A-41681-A16A501		16	26-48-7165	A-41681-A16C102	
17	26-48-1173	A-41681-A17A102		17	26-48-2173	A-41681-A17A501		17	26-48-7175	A-41681-A17C102	
18	26-48-1183	A-41681-A18A102		18	26-48-2183	A-41681-A18A501		18	26-48-7185	A-41681-A18C102	
19	26-48-1193	A-41681-A19A102		19	26-48-2193	A-41681-A19A501		19	26-48-7195	A-41681-A19C102	
20	26-48-1203	A-41681-A20A102		20	26-48-2203	A-41681-A20A501		20	26-48-7205	A-41681-A20C102	
21	26-48-1213	A-41681-A21A102		21	26-48-2213	A-41681-A21A501		21	26-48-7215	A-41681-A21C102	
22	26-48-1223	A-41681-A22A102		22	26-48-2223	A-41681-A22A501		22	26-48-7225	A-41681-A22C102	
23	26-48-1233	A-41681-A23A102		23	26-48-2233	A-41681-A23A501		23	26-48-7235	A-41681-A23C102	
24	26-48-1243	A-41681-A24A102		24	26-48-2243	A-41681-A24A501		24	26-48-7245	A-41681-A24C102	
13	26-49-6137	A-41681-A13A102-12	12								
17	26-49-6177	A-41681-A17A102-2	2								
20	26-49-6207	A-41681-A20A102-17	17								

REV: S2	<u>ECR/ECN INFORMATION</u>		<u>TITLE:</u> KK .156 HEADER ASSEMBLY POLARIZING STRAIGHT 2-24 CKTS	<u>SHEET No.</u> - 2 -
	<u>EC No:</u> UCP2006-2983			
	<u>DATE:</u> 2006-06-13			
<u>DOCUMENT NUMBER:</u> SD-41681-001		<u>CREATED / REVISED BY:</u> PRIDDER	<u>CHECKED BY:</u> ADERR	<u>APPROVED BY:</u> FSMITH

ENG. NO: A-41681-ANC503*				ENG. NO: A-41681-BNA208*				ENG. NO: A-41681-BNA228*			
PIN NUMBER		2161-56(503)		PIN NUMBER		43294-0236		PIN NUMBER		43294-0237	
PLATING		503		PLATING		208		PLATING		228	
DIM. L		(17.86)/.703		DIM. L		(19.05)/.750		DIM. L		(19.05)/.750	
DIM. X		(11.43)/.450		DIM. X		(11.43)/.450		DIM. X		(11.43)/.450	
DIM. G (GOLD)		OVERALL		DIM. G (GOLD)		(6.86)/.270		DIM. G (GOLD)		(6.86)/.270	
DIM. Z		(3.18)/.125		DIM. Z		(4.37)/.172		DIM. Z		(4.37)/.172	
DIM. T (TIN)		N/A		DIM. T (TIN)		(4.06)/.160		DIM. T (TIN)		(4.06)/.160	
PACKAGING		PK-41681-001 (BULK)		PACKAGING		PK-41681-001 (BULK)		PACKAGING		PK-41681-001 (BULK)	
CKTS	EDP NO.	ENG. NO.	VOIDS	CKTS	EDP NO.	ENG. NO.	VOIDS	CKTS	EDP NO.	ENG. NO.	VOIDS
02	26-48-7028	A-41681-A2C503		02	41681-0001	A-41681-B02A208		02	41681-0024	A-41681-B02A228	
03	26-48-7038	A-41681-A3C503		03	41681-0002	A-41681-B03A208		03	41681-0025	A-41681-B03A228	
04	26-48-7048	A-41681-A4C503		04	41681-0003	A-41681-B04A208		04	41681-0026	A-41681-B04A228	
05	26-48-7058	A-41681-A5C503		05	41681-0004	A-41681-B05A208		05	41681-0027	A-41681-B05A228	
06	26-48-7068	A-41681-A6C503		06	41681-0005	A-41681-B06A208		06	41681-0028	A-41681-B06A228	
07	26-48-7078	A-41681-A7C503		07	41681-0006	A-41681-B07A208		07	41681-0029	A-41681-B07A228	
08	26-48-7088	A-41681-A8C503		08	41681-0007	A-41681-B08A208		08	41681-0030	A-41681-B08A228	
09	26-48-7098	A-41681-A9C503		09	41681-0008	A-41681-B09A208		09	41681-0031	A-41681-B09A228	
10	26-48-7108	A-41681-A10C503		10	41681-0009	A-41681-B10A208		10	41681-0032	A-41681-B10A228	
11	26-48-7118	A-41681-A11C503		11	41681-0010	A-41681-B11A208		11	41681-0033	A-41681-B11A228	
12	26-48-7128	A-41681-A12C503		12	41681-0011	A-41681-B12A208		12	41681-0034	A-41681-B12A228	
13	26-48-7138	A-41681-A13C503		13	41681-0012	A-41681-B13A208		13	41681-0035	A-41681-B13A228	
14	26-48-7148	A-41681-A14C503		14	41681-0013	A-41681-B14A208		14	41681-0036	A-41681-B14A228	
15	26-48-7158	A-41681-A15C503		15	41681-0014	A-41681-B15A208		15	41681-0037	A-41681-B15A228	
16	26-48-7168	A-41681-A16C503		16	41681-0015	A-41681-B16A208		16	41681-0038	A-41681-B16A228	
17	26-48-7178	A-41681-A17C503		17	41681-0016	A-41681-B17A208		17	41681-0039	A-41681-B17A228	
18	26-48-7188	A-41681-A18C503		18	41681-0017	A-41681-B18A208		18	41681-0040	A-41681-B18A228	
19	26-48-7198	A-41681-A19C503		19	41681-0018	A-41681-B19A208		19	41681-0041	A-41681-B19A228	
20	26-48-7208	A-41681-A20C503		20	41681-0019	A-41681-B20A208		20	41681-0042	A-41681-B20A228	
21	26-48-7218	A-41681-A21C503		21	41681-0020	A-41681-B21A208		21	41681-0043	A-41681-B21A228	
22	26-48-7228	A-41681-A22C503		22	41681-0021	A-41681-B22A208		22	41681-0044	A-41681-B22A228	
23	26-48-7238	A-41681-A23C503		23	41681-0022	A-41681-B23A208		23	41681-0045	A-41681-B23A228	
24	26-48-7248	A-41681-A24C503		24	41681-0023	A-41681-B24A208		24	41681-0046	A-41681-B24A228	

REV: S2	<u>ECR/ECN INFORMATION</u>		<u>TITLE:</u> KK .156 HEADER ASSEMBLY POLARIZING STRAIGHT 2-24 CKTS	<u>SHEET No.</u> - 3 -	
	<u>EC No:</u> UCP2006-2983				
	<u>DATE:</u> 2006-06-13				
<u>DOCUMENT NUMBER:</u> SD-41681-001			<u>CREATED / REVISED BY:</u> PRIDDER	<u>CHECKED BY:</u> ADERR	<u>APPROVED BY:</u> FSMITH

41681

ENG. NO: A-41681-ANB102*				ENG. NO				ENG. NO			
PIN NUMBER		2161-1(102)		PIN NUMBER				PIN NUMBER			
PLATING		102		PLATING				PLATING			
DIM. L		(19.05)/.750		DIM. L				DIM. L			
DIM. X		(12.62)/.497		DIM. X				DIM. X			
DIM. G (GOLD)		N/A		DIM. G (GOLD)				DIM. G (GOLD)			
DIM. Z		(3.18)/.125		DIM. Z				DIM. Z			
DIM. T (TIN)		OVERALL		DIM. T (TIN)				DIM. T (TIN)			
PACKAGING		PK-41681-001 (BULK)		PACKAGING		PK-41681-001 (BULK)		PACKAGING		PK-41681-001 (BULK)	
CKTS	EDP NO.	ENG. NO.	VOIDS	CKTS	EDP NO.	ENG. NO.	VOIDS	CKTS	EDP NO.	ENG. NO.	VOIDS
02	41681-0047	A-41681-A2B102		02				02			
03	41681-0048	A-41681-A3B102		03				03			
04	41681-0049	A-41681-A4B102		04				04			
05	41681-0050	A-41681-A5B102		05				05			
06	41681-0051	A-41681-A6B102		06				06			
07	41681-0052	A-41681-A7B102		07				07			
08	41681-0053	A-41681-A8B102		08				08			
09	41681-0054	A-41681-A9B102		09				09			
10	41681-0055	A-41681-A10B102		10				10			
11	41681-0056	A-41681-A11B102		11				11			
12	41681-0057	A-41681-A12B102		12				12			
13	41681-0058	A-41681-A13B102		13				13			
14	41681-0059	A-41681-A14B102		14				14			
15	41681-0060	A-41681-A15B102		15				15			
16	41681-0061	A-41681-A16B102		16				16			
17	41681-0062	A-41681-A17B102		17				17			
18	41681-0063	A-41681-A18B102		18				18			
19	41681-0064	A-41681-A19B102		19				19			
20	41681-0065	A-41681-A20B102		20				20			
21	41681-0066	A-41681-A21B102		21				21			
22	41681-0067	A-41681-A22B102		22				22			
23	41681-0068	A-41681-A23B102		23				23			
24	26-48-6248	A-41681-A24B102		24				24			

REV: S2	<u>ECR/ECN INFORMATION</u>		<u>TITLE:</u> KK .156 HEADER ASSEMBLY POLARIZING STRAIGHT 2-24 CKTS	<u>SHEET No.</u> - 4 -	
	<u>EC No:</u> UCP2006-2983				
	<u>DATE:</u> 2006-06-13				
<u>DOCUMENT NUMBER:</u> SD-41681-001			<u>CREATED / REVISED BY:</u> PRIDDER	<u>CHECKED BY:</u> ADERR	<u>APPROVED BY:</u> FSMITH