Part Number: 0022053051

Status: Active

Description: 2.54mm (.100") Pitch KK® Solid Header, Right Angle, with Friction Lock, 5 Circuits, Tin (Sn) Plating

Documents:

Note - Please disable browser pop-up blockers for documents on www.molex.com

Drawing (PDF)
Product Specification PS-10-07 (PDF)
3D Model
Packaging Specification (PDF)
Related Catalog Page (PDF)

Order Products:

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Part Detail: (show all)

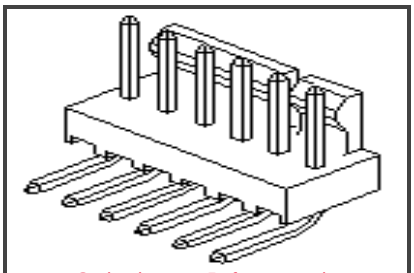
General | Physical | Electrical | Material Info

General

Product Family	PCB Headers
Series	7478
Application	Wire-to-Board
Product Name	KK®

Physical

Breakaway	No
Circuits (Loaded)	5
Circuits (maximum)	5
Color - Resin	Natural (White)
Durability (mating cycles) min	25 cycles
Flammability	94V-0
Lock to Mating Part	Yes
Material - Metal	Brass
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	Nylon
Number of Rows	1
Orientation	Right Angle
PC Tail Length (in)	0.141 In
PC Tail Length (mm)	3.58 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)	0.100 In
Pitch - Mating Interface (mm)	2.54 mm
Plating min: Mating (uin)	200
Plating min: Mating (um)	5
Plating min: Termination (uin)	200
Plating min: Termination (um)	5
Polarized to Mating Part	Yes
Polarized to PCB	Yes



Series image - Reference only

EU RoHS **China RoHS**
ELV and RoHS Compliant

Need more information on product compliance?

Email **productcompliance@molex.com**

Please visit the Contact Us section for any non-product compliance questions.

Duration at Max. Process Temperature (seconds)	5
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	235

Search Parts in this Series
7478 Series

Mates With
2695, 6471, 7880, 4455, 7720

Shrouded	Partial
Stackable	Yes
Temperature Range - Operating	0°C to +75°C
Termination Interface: Style	Through Hole

Electrical

CSA	LR19980
Current - Maximum	4.000 Amp
UL	E29179
Voltage - Maximum	250V

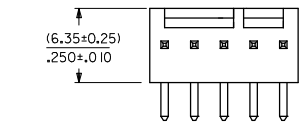
Material Info

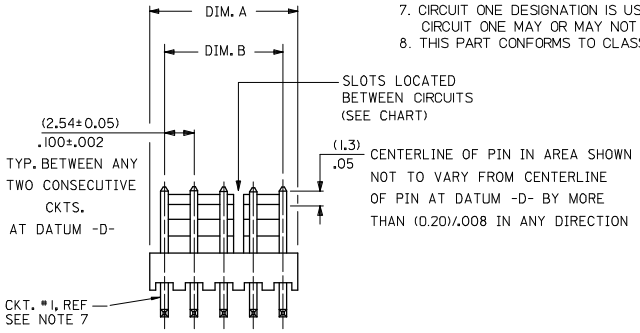
Old Part Number	A-7478-05A102

Reference - Drawing Numbers

Product Specification	PS-10-07
Sales Drawing	SDA-7478

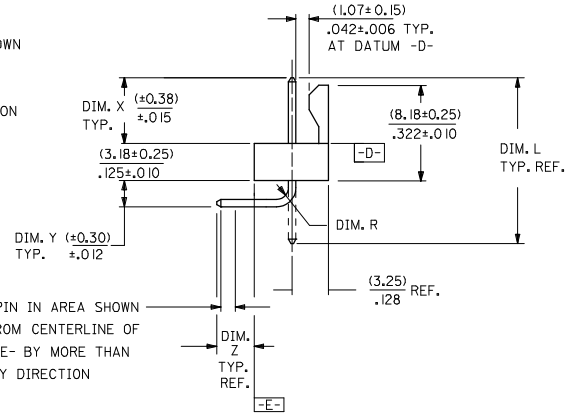
NO. OF CKTS.	DIM. A	DIM. B	SLOTS LOC.
28	(71.12/70.61) 2.800/2.780	(68.58±0.25) 2.700±.010	4, 5, 24, 25
27	(68.58/68.07) 2.700/2.680	(66.04±0.25) 2.600±.010	4, 5, 24, 25
26	(66.04/65.53) 2.600/2.580	(63.50±0.25) 2.500±.010	4, 5, 20, 21
25	(63.50/62.99) 2.500/2.480	(60.96±0.25) 2.400±.010	4, 5, 20, 21
24	(60.96/60.45) 2.400/2.380	(58.42±0.25) 2.300±.010	4, 5, 20, 21
23	(58.42/57.96) 2.300/2.282	(55.88±0.23) 2.200±.009	4, 5, 20, 21
22	(55.88/55.42) 2.200/2.182	(53.34±0.23) 2.100±.009	4, 5, 16, 17
21	(53.34/52.88) 2.100/2.082	(50.80±0.23) 2.000±.009	4, 5, 16, 17
20	(50.80/50.34) 2.000/1.982	(48.26±0.23) 1.900±.009	4, 5, 16, 17
19	(48.26/47.80) 1.900/1.882	(45.72±0.23) 1.800±.009	4, 5, 16, 17
18	(45.72/45.31) 1.800/1.784	(43.18±0.20) 1.700±.008	4, 5, 12, 13
17	(43.18/42.77) 1.700/1.684	(40.64±0.20) 1.600±.008	4, 5, 12, 13
16	(40.64/40.23) 1.600/1.584	(38.10±0.20) 1.500±.008	4, 5, 12, 13
15	(38.10/37.69) 1.500/1.484	(35.56±0.20) 1.400±.008	4, 5, 12, 13
14	(35.56/35.20) 1.400/1.386	(33.02±0.18) 1.300±.007	4, 5, 8, 9
13	(33.02/32.66) 1.300/1.286	(30.48±0.18) 1.200±.007	4, 5, 8, 9
12	(30.48/30.12) 1.200/1.186	(27.94±0.18) 1.100±.007	4, 5, 8, 9
11	(27.94/27.58) 1.100/1.086	(25.40±0.18) 1.000±.007	4, 5, 8, 9
10	(25.40/25.04) 1.000/.986	(22.86±0.15) .900±.006	4, 5
9	(22.86/22.50) .900/.886	(20.32±0.15) .800±.006	4, 5
8	(20.32/19.96) .800/.786	(17.78±0.15) .700±.006	4, 5
7	(17.78/17.42) .700/.686	(15.24±0.13) .600±.005	4, 5
6	(15.24/14.88) .600/.586	(12.70±0.13) .500±.005	4, 5
5	(12.70/12.40) .500/.488	(10.16±0.13) .400±.005	NONE
4	(10.16/9.86) .400/.388	(7.62±0.13) .300±.005	NONE
3	(7.62/7.32) .300/.288	(5.08±0.10) .200±.004	NONE
2	(5.08/4.78) .200/.188	(2.54±0.05) .100±.002	NONE

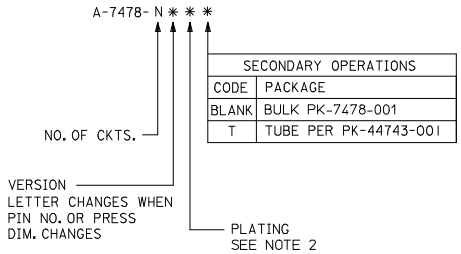




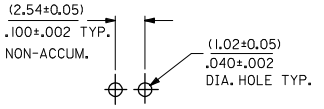
NOTES:

1. MATERIAL: NYLON, UL94V-0, COLOR: WHITE
2. FINISH:
   (102) - OVERALL TIN: (0.00508)/.000200 MIN., OVERALL COPPER UNDERPLATE: (0.00254)/.000100 MIN.
   (154) - OVERALL TIN: (0.00254)/.000100 MIN., OVERALL NICKEL UNDERPLATE: (0.00127)/.000050 MIN.
   (501) - OVERALL GOLD: (0.00051)/.000020 MIN., OVERALL NICKEL UNDERPLATE: (0.00076)/.000030 MIN.
   (503) - OVERALL GOLD: (0.00076)/.000030 MIN., OVERALL NICKEL UNDERPLATE (0.00127)/.000050 MIN.
   (531) - OVERALL GOLD: (0.00038)/.000015 MIN., OVERALL NICKEL UNDERPLATE: (0.00076)/.000030 MIN.
3. PARTS CONFORM TO PRODUCT SPECIFICATION PS-10-07.
4. PACKAGING INFORMATION: SEE LEGEND.
5. PARTS ARE STACKABLE END TO END ON (2.54)/.100 CENTERS.
6. PIN PUSH OUT FORCE: 2 LBS. MIN.
7. CIRCUIT ONE DESIGNATION IS USED TO DEFINE VOID LOCATION.
   CIRCUIT ONE MAY OR MAY NOT LINE UP WITH CIRCUIT ONE ON THE HOUSING.
8. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.





SECONDARY OPERATIONS	
CODE	PACKAGE
BLANK	BULK PK-7478-001
T	TUBE PER PK-44743-001



RECOMMENDED P.C. BOARD HOLE LAYOUT

SHT	REV
7	Y4
6	W1
5	Y8
4	Y7
3	Y9
2	Y9
1	Y11

REMOVE ES-42003
EC NO: UCP2009-0359 2008/08/12
DRWN:GAVERILL 2008/08/14
CHKD:MKIPPER 2008/08/14
APPR:FSMITH
DESCRIPTION
REV
Y11

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± .015
1 PLACE	± 0.38	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM/IN
SCALE	4:1
DESIGN UNITS	INCH
	THIRD ANGLE PROJECTION
DRAWN BY	GUZIC 1987/07/30
CHECKED BY	PATEL 1987/07/30
APPROVED BY	LENZ 1987/07/30
TITLE	FRICTION LOCK HEADER ASY .100 CL BENT SQ PINS 7478 SERIES DWG
	MOLEX INCORPORATED
MATERIAL NO.	SEE CHART
DOCUMENT NO.	SDA-7478
SHEET NO.	1 OF 7
SIZE	C

tb_frame_C_P_ME_T
Rev. D 2004/04/02

ENG. NO.	PIN NO.	DIM. L	DIM. X	DIM. Z	DIM. Y	DIM. W	DIM. R
A-7478-NA102	2766-4(102)	(18.69) .736	(6.60) .260	(3.58) .141	(3.05) .120	90°	(1.17) .046
A-7478-NA501	2766-4(501)	(18.69) .736	(6.60) .260	(3.58) .141	(3.05) .120	90°	(1.17) .046
A-7478-NA501T	2766-4(501)	(18.69) .736	(6.60) .260	(3.58) .141	(3.05) .120	90°	(1.17) .046
A-7478-NA102T	2766-4(102)	(18.69) .736	(6.60) .260	(3.58) .141	(3.05) .120	90°	(1.17) .046

ENG. NO.	PIN NO.	DIM. L	DIM. X	DIM. Z	DIM. Y	DIM. W	DIM. T

REV	DESCRIPTION	DATE
Y9	ADD A-7478-NA102T EC NO: UCP2006-1815 DRWN:ADERR CHK:DAELHAG APPR:FSMITH	2006/02/06 2006/02/06 2006/02/09

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
ANGULAR ±---°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: IN/MM
SCALE: ---
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

DRAWN BY: GUZIK DATE: 1987/07/10
CHECKED BY: PATEL DATE: 1987/07/10
APPROVED BY: LENZ DATE: 1987/07/10

TITLE: FRICTION LOCK HEADER ASY .100 CL BENT SQ PINS 7478 SERIES DWG

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SDA-7478
SHEET NO.: 2 OF 7

SIZE C

tb_frame_C_P_ME_T
Rev. D 2004/04/02

A-7478-NA102

PART NO.		ENG. NO.
22-05-3021	*	A-7478-2A102
22-05-3031	*	A-7478-3A102
22-05-3041	*	A-7478-4A102
22-05-3051	*	A-7478-5A102
22-05-3061	*	A-7478-6A102
22-05-3071	*	A-7478-7A102
22-05-3081	*	A-7478-8A102
22-05-3091	*	A-7478-9A102
22-05-3101	*	A-7478-10A102
22-05-3111	*	A-7478-11A102
22-05-3121	*	A-7478-12A102
22-05-3131	*	A-7478-13A102
22-05-3141	*	A-7478-14A102
22-05-3151	*	A-7478-15A102
22-05-3161	*	A-7478-16A102
22-05-3171	*	A-7478-17A102
22-05-3181	*	A-7478-18A102
22-05-3191	*	A-7478-19A102
22-05-3201	*	A-7478-20A102
22-05-3211	*	A-7478-21A102
22-05-3221	*	A-7478-22A102
22-05-3231	*	A-7478-23A102
22-05-3241	*	A-7478-24A102
22-05-3251	*	A-7478-25A102
22-05-3261	*	A-7478-26A102
22-05-3271	*	A-7478-27A102
22-05-3281	*	A-7478-28A102

A-7478-NA501

PART NO.		ENG. NO.
22-12-2024	*	A-7478-2A501
22-12-2034	*	A-7478-3A501
22-12-2044	*	A-7478-4A501
22-12-2054		A-7478-5A501
22-12-2064	*	A-7478-6A501
22-12-2074	*	A-7478-7A501
22-12-2084	*	A-7478-8A501
22-12-2094	*	A-7478-9A501
22-12-2104	*	A-7478-10A501
22-12-2114	*	A-7478-11A501
22-12-2124	*	A-7478-12A501
22-12-2134	*	A-7478-13A501
22-12-2144	*	A-7478-14A501
22-12-2154	*	A-7478-15A501
22-12-2164	*	A-7478-16A501
22-12-2174	*	A-7478-17A501
22-12-2184	*	A-7478-18A501
22-12-2194	*	A-7478-19A501
22-12-2204	*	A-7478-20A501
22-12-2214	*	A-7478-21A501
22-12-2224	*	A-7478-22A501
22-12-2234	*	A-7478-23A501
22-12-2244	*	A-7478-24A501
22-12-2254	*	A-7478-25A501
22-12-2264	*	A-7478-26A501
22-12-2274	*	A-7478-27A501
22-12-2284	*	A-7478-28A501

A-7478-NA50IT

PART NO.	ENG. NO.
50-29-1710	A-7478-2A50IT
50-29-1711	A-7478-3A50IT
50-29-1705	A-7478-4A50IT
50-29-1712	A-7478-5A50IT
50-29-1713	A-7478-6A50IT
50-29-1714	A-7478-7A50IT
50-29-1715	A-7478-8A50IT
50-29-1716	A-7478-9A50IT
50-29-1717	A-7478-10A50IT
50-29-1718	A-7478-11A50IT
50-29-1719	A-7478-12A50IT
50-29-1720	A-7478-13A50IT
50-29-1721	A-7478-14A50IT
50-29-1722	A-7478-15A50IT
50-29-1723	A-7478-16A50IT
50-29-1724	A-7478-17A50IT
50-29-1725	A-7478-18A50IT
50-29-1726	A-7478-19A50IT
50-29-1727	A-7478-20A50IT
50-29-1728	A-7478-21A50IT
50-29-1729	A-7478-22A50IT
50-29-1730	A-7478-23A50IT
50-29-1731	A-7478-24A50IT
50-29-1732	A-7478-25A50IT
50-29-1733	A-7478-26A50IT
50-29-1734	A-7478-27A50IT
50-29-1735	A-7478-28A50IT

A-7478-NA102T

PART NO.	ENG. NO.
50-34-8500	A-7478-2A102T
50-34-8501	A-7478-3A102T
50-34-8502	A-7478-4A102T

PART NO.	ENG. NO.

PART NO.	ENG. NO.

ADD P/N'S
EC NO: UCP2006-1815 2006/02/06
DRWN:ADERR 2006/02/06
CHKD:AELHAG 2006/02/09
APPR:FSMITH
DESCRIPTION
REV
Y9

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---

ANGULAR ±---°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: IN/MM
SCALE: ---
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

DRAWN BY: GUZIK DATE: 1987/07/10
CHECKED BY: PATEL DATE: 1987/07/10
APPROVED BY: LENZ DATE: 1987/07/10

TITLE: FRICTION LOCK HEADER ASY .100 CL BENT SQ PINS 7478 SERIES DWG.

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SDA-7478
SHEET NO.: 3 OF 7
SIZE: C