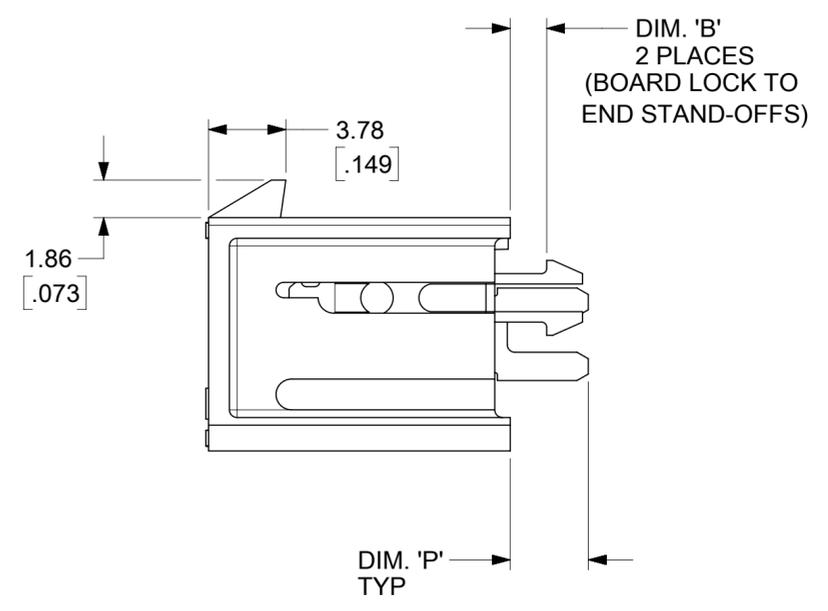
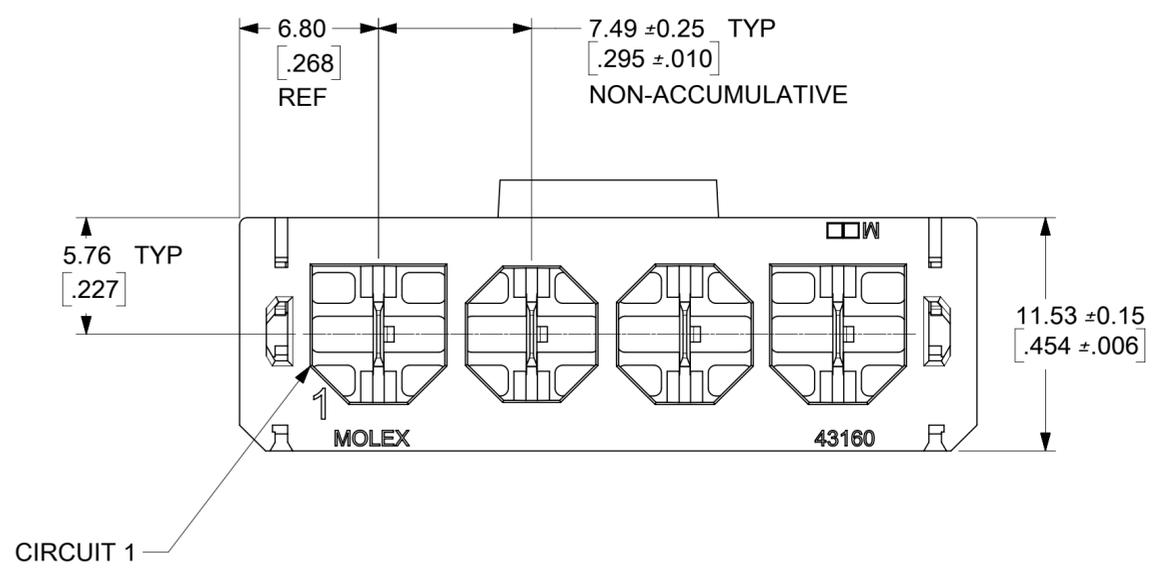
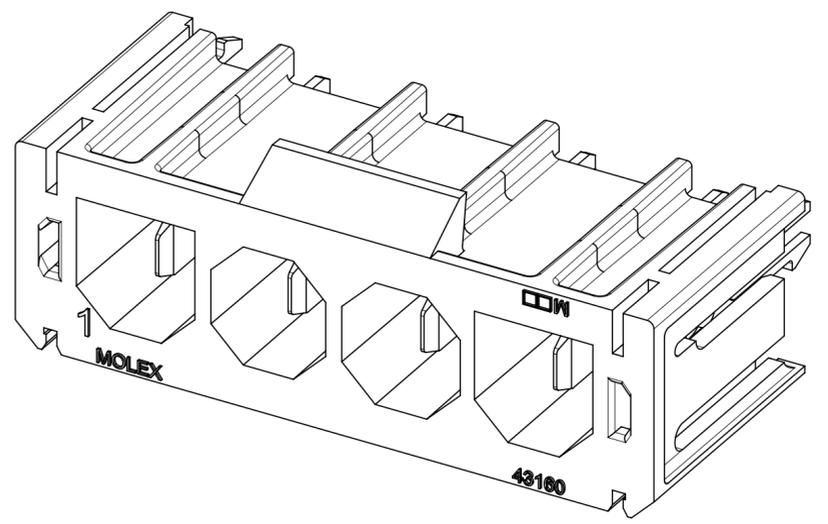
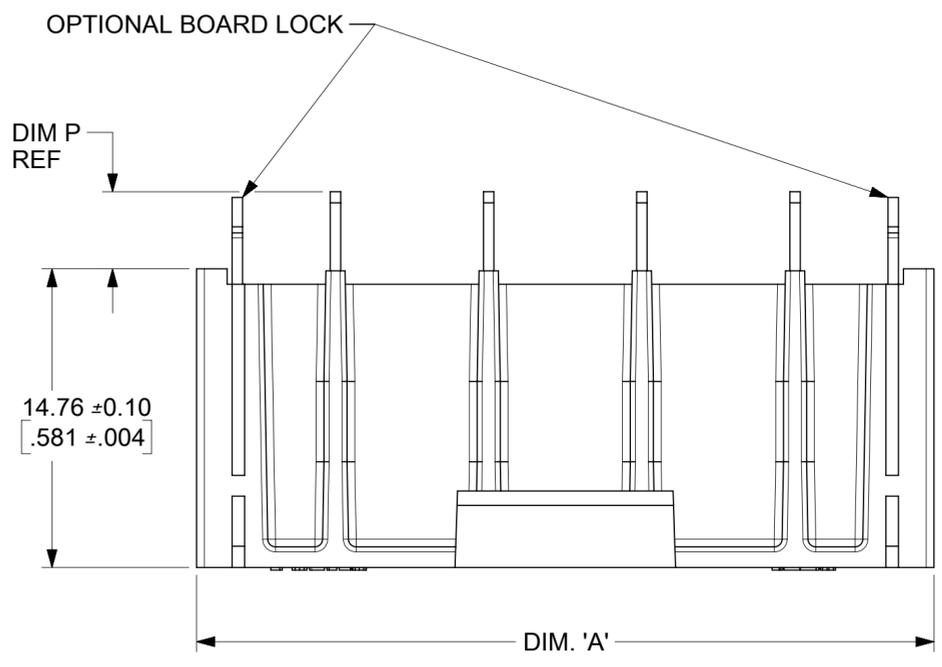


| CIRCUITS | DIM. 'A' ± | 0.33 .013 |
|----------|------------|--------------|
| 2 | 21.08 | .830 |
| 3 | 28.58 | 1.125 |
| 4 | 36.07 | 1.420 |
| 5 | 43.56 | 1.715 |
| 6 | 51.05 | 2.010 |
| 8 | 66.04 | 2.600 |



SHEETS 1 AND 2: VERTICAL HEADERS
 SHEETS 3 AND 4: RIGHT ANGLE HEADERS
 SHEET 5: POLARIZATION

- INSULATOR MATERIAL: 30% GLASS FILLED 4/6 NYLON UL94V-0, COLOR: BLACK
 TERMINAL MATERIAL : BRASS
- TERMINAL FINISH: OVERALL REFLOWED MATTE TIN: 0.00152/.000060 MIN OVER 0.00127/.000050 MIN NICKEL.
- PRODUCT SPECIFICATION PS-44441-9999.
- PACKAGING: SEE CHART
- THIS HEADER MATES WITH 44441 OR 43335 SERIES RECEPTACLE HOUSINGS.
- THIS PART CONFORMS TO CLASS B REQUIREMENTS OF MOLEX COSMETIC SPECIFICATION PS-45499-002
- TEXT ON PART IS FOR REFERENCE ONLY. TEXT AND TEXT LOCATION MAY VARY DEPENDING ON PART NUMBER AND/OR TOOL.
- PART DESIGNED IN INCHES.

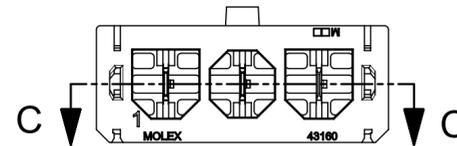
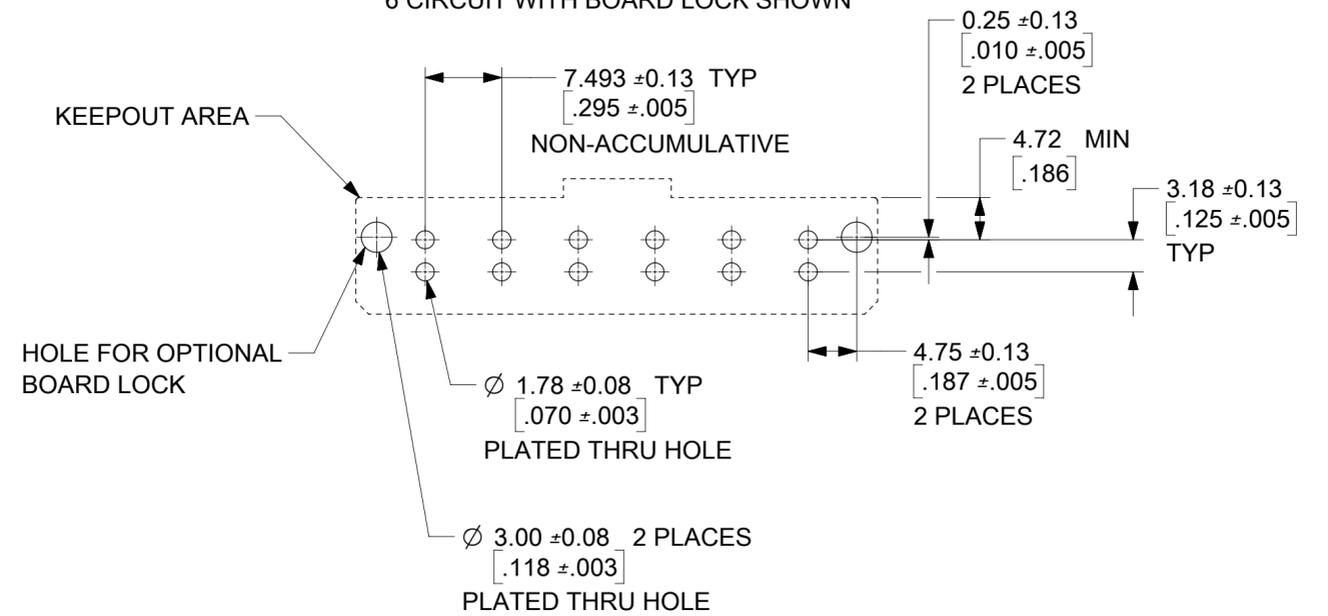
| SYMBOLS | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | |
|-----------------|--|---|---|
| DIMENSION UNITS | SCALE | CURRENT REV DESC: RELEASED | |
| ∇ = 0 | IN/MM | 4:1 | EC NO: 623888 DRWN: MKIPPER 2019/09/06 CHK'D: DSTEIER 2019/09/13 APPR: FSMITH 2019/09/17 |
| ∇ = 0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | |
| ∇ = 0 | | MM | INCH |
| ∇ = 0 | 4 PLACES ± | ± | INITIAL REVISION: DRWN: MKIPPER 2019/09/06 APPR: FSMITH 2019/09/17 |
| ∇ = 0 | 3 PLACES ± | ± 0.005 | |
| ∇ = 0 | 2 PLACES ± | ± 0.13 | ± 0.01 |
| ∇ = 0 | 1 PLACE ± | ± 0.25 | ± |
| ∇ = 0 | 0 PLACES ± | ± | ± |
| ∇ = 0 | ANGULAR TOL | ± 0.5 ° | |
| ∇ = 0 | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | THIRD ANGLE PROJECTION | DRAWING SERIES |
| | | C-SIZE | 43160 |

| | | | | |
|-----------------|----------------|--------------|----------|----------|
| DOCUMENT NUMBER | | DOC TYPE | DOC PART | REVISION |
| 431600001-SD | | PSD | 000 | A |
| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER | | |
| SEE CHARTS | GENERAL MARKET | 1 OF 5 | | |

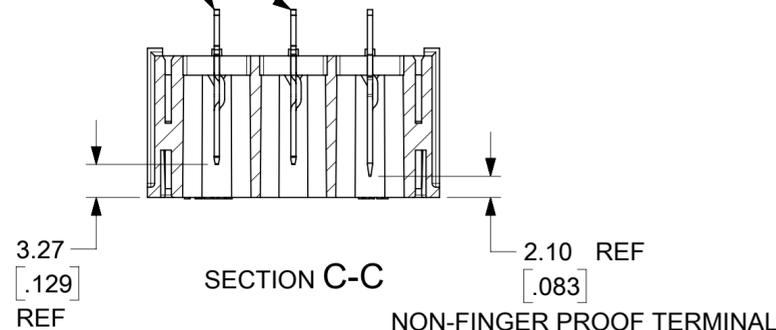
| VERTICAL HEADER ASSEMBLIES | | | | | |
|----------------------------|----------|--------------------------------|------------|------------------------------------|-----------------|
| ASSEMBLY PART NO. | CIRCUITS | DIM. 'P' ± $\frac{0.51}{.020}$ | BOARD LOCK | DIM. 'B' ± $\frac{0.10}{.004}$ | PACKAGING SPEC. |
| 43160-0102 | 2 | 3.81/(.150) (SHORT TAIL) | NO | N/A | PK-43160-0010 |
| 43160-0103 | 3 | | | | |
| 43160-0104 | 4 | | | | |
| 43160-0105 | 5 | | | | |
| 43160-0106 | 6 | | | | |
| 43160-0108 | 8 | | | | |
| 43160-0302 | 2 | 5.33/(.210) (LONG TAIL) | NO | N/A | PK-43789-001 |
| 43160-0303 | 3 | | | | |
| 43160-0304 | 4 | | | | |
| 43160-0305 | 5 | | | | |
| 43160-0306 | 6 | | | | |
| 43160-0308 | 8 | | | | |
| 43160-2102 | 2 | 3.81/(.150) (SHORT TAIL) | YES | 1.78/(.070) FOR 1.57/(.062) PCB | PK-43789-001 |
| 43160-2103 | 3 | | | | |
| 43160-2104 | 4 | | | | |
| 43160-2105 | 5 | | | | |
| 43160-2106 | 6 | | | | |
| 43160-2108 | 8 | | | | |
| 43160-4102 | 2 | 3.81/(.150) (SHORT TAIL) | YES | 2.59/(.102) FOR 2.39/(.094) PCB | PK-43789-001 |
| 43160-4103 | 3 | | | | |
| 43160-4104 | 4 | | | | |
| 43160-4105 | 5 | | | | |
| 43160-4106 | 6 | | | | |
| 43160-4108 | 8 | | | | |
| 43160-4302 | 2 | 5.33/(.210) (LONG TAIL) | YES | 2.59/(.102) FOR 2.39/(.094) PCB | PK-43789-001 |
| 43160-4303 | 3 | | | | |
| 43160-4304 | 4 | | | | |
| 43160-4305 | 5 | | | | |
| 43160-4306 | 6 | | | | |
| 43160-4308 | 8 | | | | |
| 43160-6302 | 2 | 5.33/(.210) (LONG TAIL) | YES | 3.38/(.133) FOR 3.18/(.125) PCB | PK-43789-001 |
| 43160-6303 | 3 | | | | |
| 43160-6304 | 4 | | | | |
| 43160-6305 | 5 | | | | |
| 43160-6306 | 6 | | | | |
| 43160-6308 | 8 | | | | |
| ASSEMBLY PART NO. | CIRCUITS | DIM. 'P' | BOARD LOCK | DIM. 'B' | PACKAGING SPEC. |

RECOMMENDED P.C. BOARD LAYOUT FOR VERTICAL HEADERS

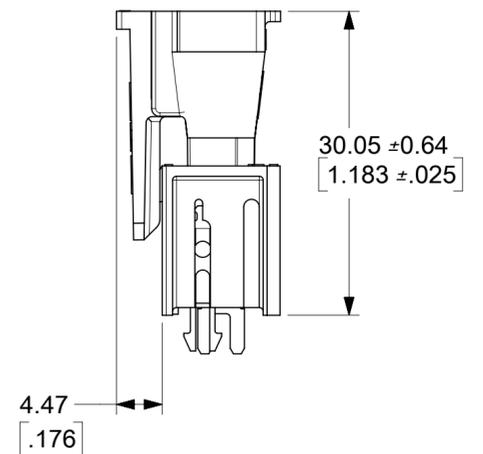
6 CIRCUIT WITH BOARD LOCK SHOWN



FINGER PROOF TERMINALS



HEADER WITH OPTIONAL FINGER PROOF TERMINAL
43160-9002 SHOWN



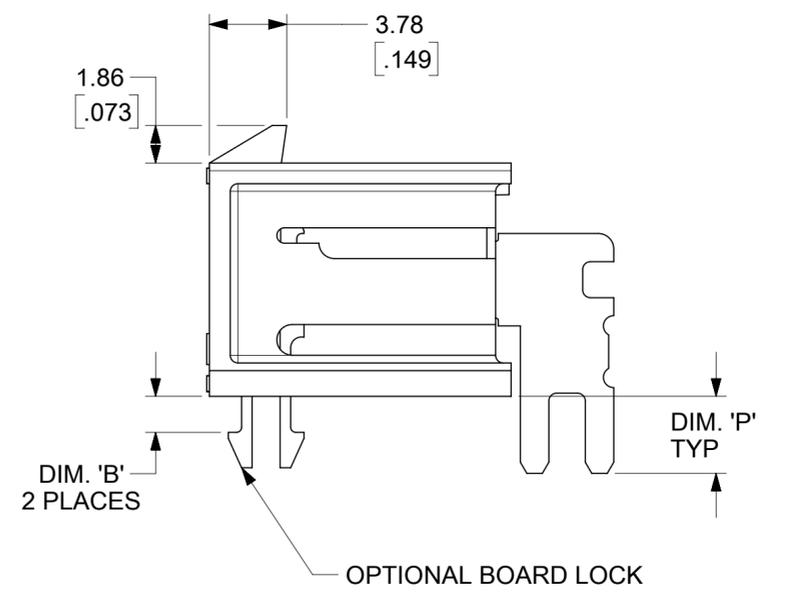
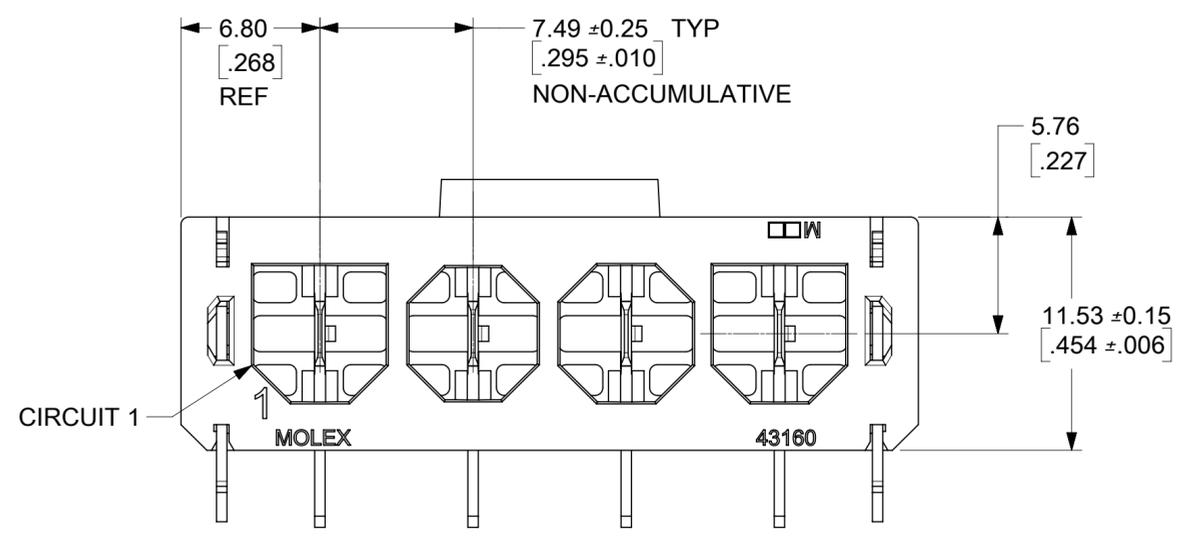
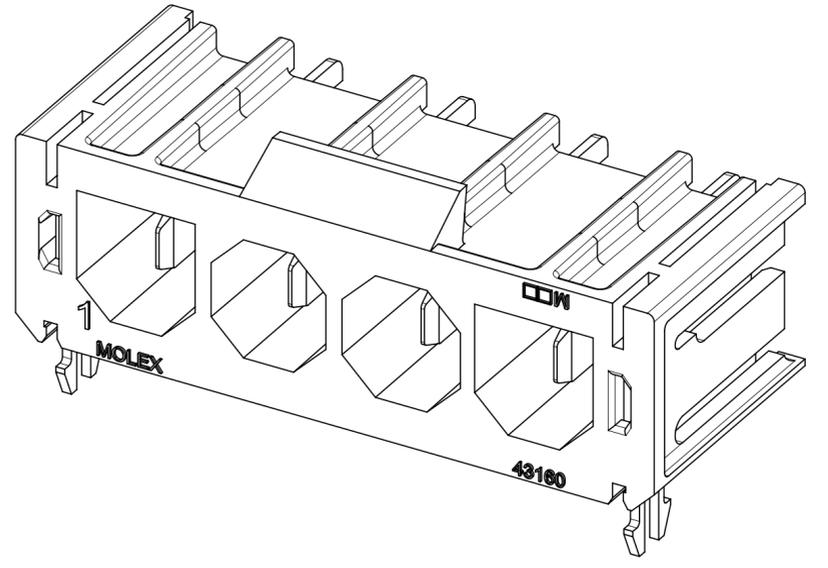
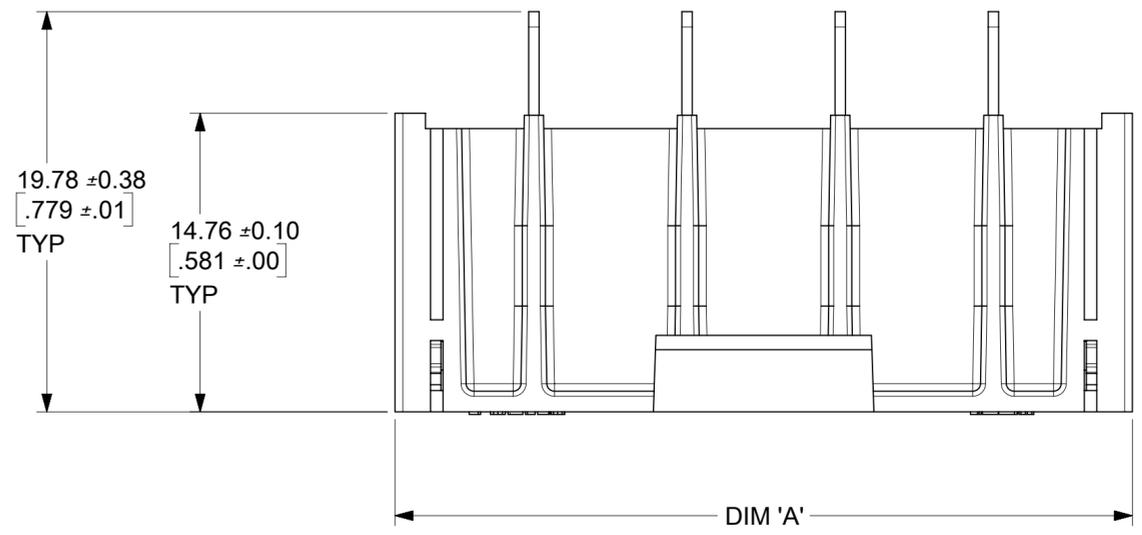
MATED DIMENSIONS
VERTICAL HEADERS

FINGER PROOF VERTICAL HEADER ASSEMBLIES

| ASSEMBLY PART NO. | CIRCUITS | FINGER PROOF TERMINAL CIRCUIT(S) | DIM. 'P' ± $\frac{0.51}{.020}$ | BOARD LOCK | DIM. 'B' ± $\frac{0.10}{.004}$ | PACKAGING SPEC. |
|-------------------|----------|----------------------------------|--------------------------------|------------|--------------------------------|-----------------|
| 43160-9002 | 3 | 1, 2 | 3.81/(.150) (SHORT TAIL) | NO | N/A | PK-43160-0010 |

| | | | | | | | | | | | | | | | |
|---------------------------------------|--|-------|------|---|--|---|--|--------------------------|--|-----------------|--|----------------|--|--------------|--|
| 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: RELEASED | | | | | | | | | | | |
| IN/MM | | 2:1 | | molex SABRE HEADER ASSEMBLY 2-6 & 8 CIRCUIT .125/(.18) X .020/(.051) | | | | | | | | | | | |
| GENERAL TOLERANCES (UNLESS SPECIFIED) | | | | | | | | | | | | | | | |
| ▽ = 0 | 4 PLACES ± | MM | INCH | EC NO: 623888 | | 2019/09/06 | | DOCUMENT NUMBER | | DOC TYPE | | DOC PART | | REVISION | |
| ▽ = 0 | 3 PLACES ± | | | DRWN: MKIPPER | | 2019/09/13 | | 431600001-SD | | PSD | | 000 | | A | |
| ▽ = 0 | 2 PLACES ± | 0.13 | 0.01 | CHK'D: DSTEIER | | 2019/09/17 | | PRODUCT CUSTOMER DRAWING | | MATERIAL NUMBER | | CUSTOMER | | SHEET NUMBER | |
| ▽ = 0 | 1 PLACE ± | 0.25 | | APPR: FSMITH | | 2019/09/17 | | INITIAL REVISION: | | SEE CHARTS | | GENERAL MARKET | | 2 OF 5 | |
| ▽ = 0 | 0 PLACES ± | | | DRWN: MKIPPER | | 2019/09/06 | | DRWN: MKIPPER | | DRAWING | | SERIES | | | |
| ▽ = 0 | ANGULAR TOL ± | 0.5° | | APPR: FSMITH | | 2019/09/17 | | THIRD ANGLE PROJECTION | | C-SIZE | | 43160 | | | |
| ▽ = 0 | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | | THIRD ANGLE PROJECTION | | DRAWING | | SERIES | | MATERIAL NUMBER | | CUSTOMER | | SHEET NUMBER | |

| CIRCUITS | DIM. 'A' ± | 0.33 .013 |
|----------|----------------|--------------|
| 2 | 21.08 .830 | |
| 3 | 28.58 1.125 | |
| 4 | 36.07 1.420 | |
| 5 | 43.56 1.715 | |
| 6 | 51.05 2.010 | |
| 8 | 66.04 2.600 | |

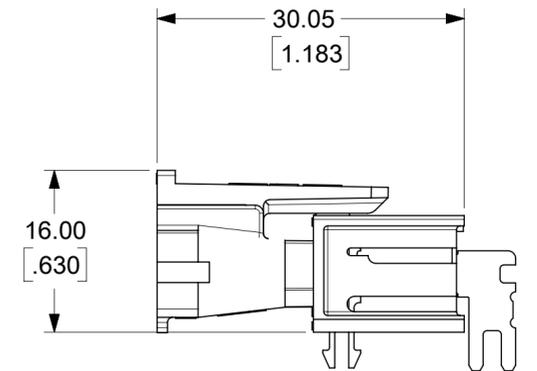
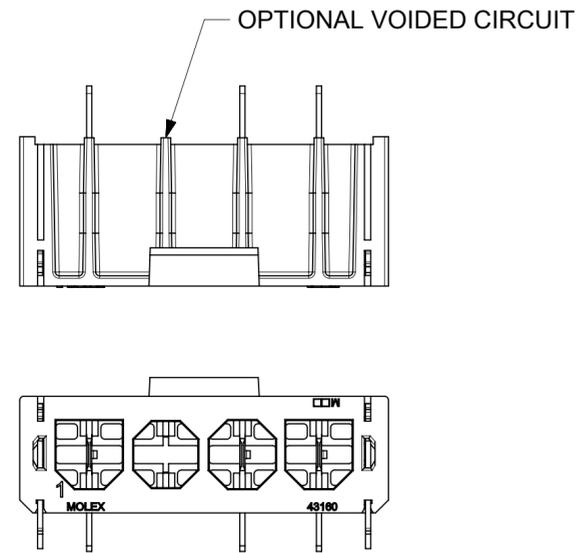
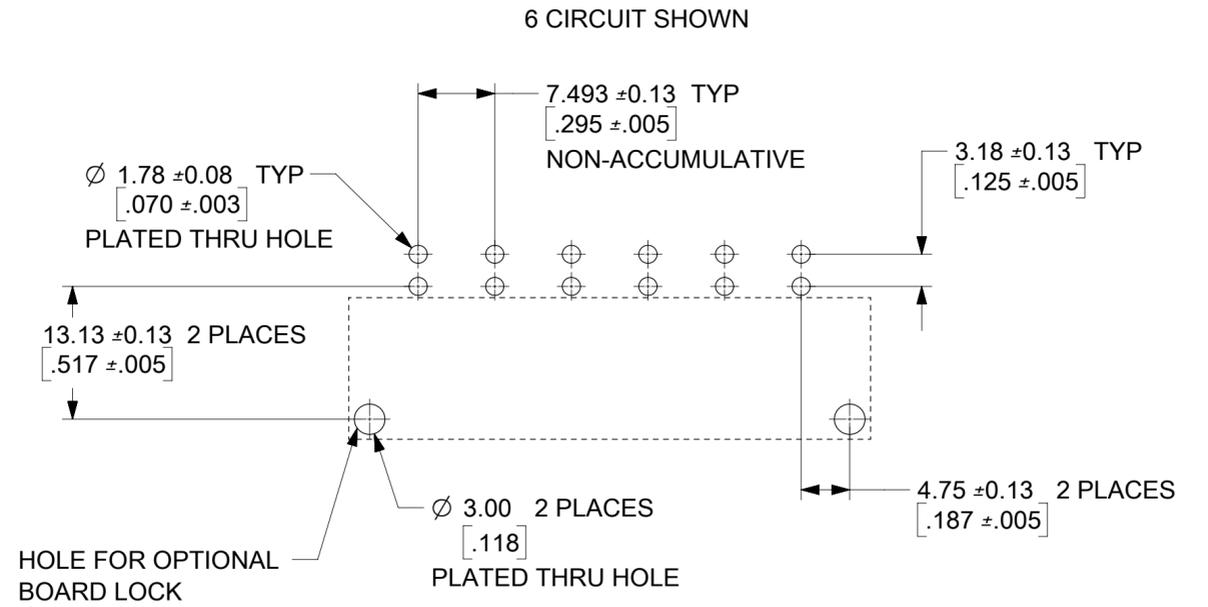


| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | | | | | | |
|---|--|-----------------|---------|-------|------------------------|--|------------|--------|-----------------|----------------|--------------|
| SYMBOLS | | DIMENSION UNITS | | SCALE | | CURRENT REV DESC: RELEASED | | | | | |
| ∇ = 0 | IN/MM | 4:1 | | | | molex SABRE HEADER ASSEMBLY 2-6 & 8 CIRCUIT .125/(3.18) X .020/(0.51) | | | | | |
| ∇ = 0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | | | | | | | | | |
| ∇ = 0 | | | MM | INCH | EC NO: 623888 | | 2019/09/06 | | | | |
| S = 0 | 4 PLACES ± | | ± | | DRWN: MKIPPER | | 2019/09/13 | | | | |
| ∇ = 0 | 3 PLACES ± | | ± 0.005 | | CHK'D: DSTEIER | | 2019/09/17 | | | | |
| ∇ = 0 | 2 PLACES ± | | 0.13 | 0.01 | APPR: FSMITH | | | | | | |
| ∇ = 0 | 1 PLACE ± | | 0.25 | | INITIAL REVISION: | | | | | | |
| ∇ = 0 | 0 PLACES ± | | ± | | DRWN: MKIPPER | | 2019/09/06 | | | | |
| ∇ = 0 | ANGULAR TOL ± 0.5 ° | | | | APPR: FSMITH | | 2019/09/17 | | | | |
| ∇ = 0 | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | | | THIRD ANGLE PROJECTION | | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
| | | | | | | | C-SIZE | 43160 | SEE CHARTS | GENERAL MARKET | 3 OF 5 |

| | | | | |
|-----------------|----|--------------|------------|----------|
| DOCUMENT STATUS | P1 | RELEASE DATE | 2019/09/17 | 14:17:52 |
|-----------------|----|--------------|------------|----------|

| RIGHT ANGLE HEADER ASSEMBLIES | | | | | |
|-------------------------------|----------|--------------------------------|------------|------------------------------------|-----------------|
| ASSEMBLY PART NO. | CIRCUITS | DIM. 'P' ± $\frac{0.28}{.011}$ | BOARD LOCK | DIM. 'B' ± $\frac{0.10}{.004}$ | PACKAGING SPEC. |
| 43160-1102 | 2 | 3.81/(.150) (SHORT TAIL) | NO | N/A | PK-43160-0010 |
| 43160-1103 | 3 | | | | |
| 43160-1104 | 4 | | | | |
| 43160-1105 | 5 | | | | |
| 43160-1106 | 6 | | | | |
| 43160-1108 | 8 | | | | |
| 43160-1302 | 2 | 5.33/(.210) (LONG TAIL) | NO | N/A | PK-43789-001 |
| 43160-1303 | 3 | | | | |
| 43160-1304 | 4 | | | | |
| 43160-1305 | 5 | | | | |
| 43160-1306 | 6 | | | | |
| 43160-1308 | 8 | | | | |
| 43160-3102 | 2 | 3.81/(.150) (SHORT TAIL) | YES | 1.78/(.070) FOR 1.57/(.062) PCB | PK-43789-001 |
| 43160-3103 | 3 | | | | |
| 43160-3104 | 4 | | | | |
| 43160-3105 | 5 | | | | |
| 43160-3106 | 6 | | | | |
| 43160-3108 | 8 | | | | |
| 43160-5102 | 2 | 3.81/(.150) (SHORT TAIL) | YES | 2.59/(.102) FOR 2.39/(.094) PCB | PK-43789-001 |
| 43160-5103 | 3 | | | | |
| 43160-5104 | 4 | | | | |
| 43160-5105 | 5 | | | | |
| 43160-5106 | 6 | | | | |
| 43160-5108 | 8 | | | | |
| 43160-5302 | 2 | 5.33/(.210) (LONG TAIL) | YES | 2.59/(.102) FOR 2.39/(.094) PCB | PK-43789-001 |
| 43160-5303 | 3 | | | | |
| 43160-5304 | 4 | | | | |
| 43160-5305 | 5 | | | | |
| 43160-5306 | 6 | | | | |
| 43160-5308 | 8 | | | | |
| 43160-7302 | 2 | 5.33/(.210) (LONG TAIL) | YES | 3.38/(.133) FOR 3.18/(.125) PCB | PK-43789-001 |
| 43160-7303 | 3 | | | | |
| 43160-7304 | 4 | | | | |
| 43160-7305 | 5 | | | | |
| 43160-7306 | 6 | | | | |
| 43160-7308 | 8 | | | | |
| ASSEMBLY PART NO. | CIRCUITS | DIM. 'P' | BOARD LOCK | DIM. 'B' | PACKAGING SPEC. |

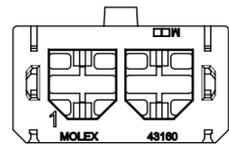
RECOMMENDED P.C. BOARD LAYOUT FOR RIGHT ANGLE HEADERS



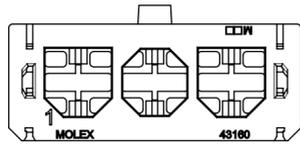
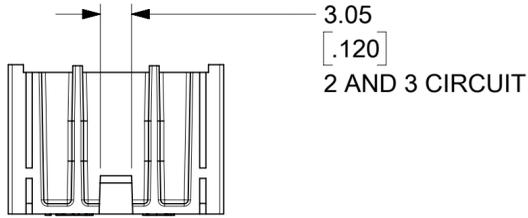
MATED DIMENSIONS RIGHT ANGLE HEADERS

| RIGHT ANGLE HEADER ASSEMBLIES WITH VOIDED TERMINALS | | | | | | |
|---|----------|--------------------------------|------------|------------------------------------|-----------------|-----------------|
| ASSEMBLY PART NO. | CIRCUITS | DIM. 'P' ± $\frac{0.28}{.011}$ | BOARD LOCK | DIM. 'B' ± $\frac{0.10}{.004}$ | PACKAGING SPEC. | VOID CIRCUIT(S) |
| 43160-9001 | 4 | 3.81/(.150) | YES | 1.78/(.070) FOR 1.57/(.062) PCB | PK-43789-001 | 2 |
| 43160-9003 | 5 | (SHORT TAIL) | | | | 2, 4 |

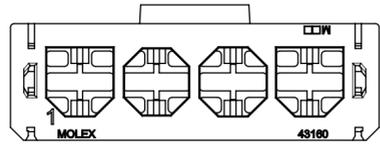
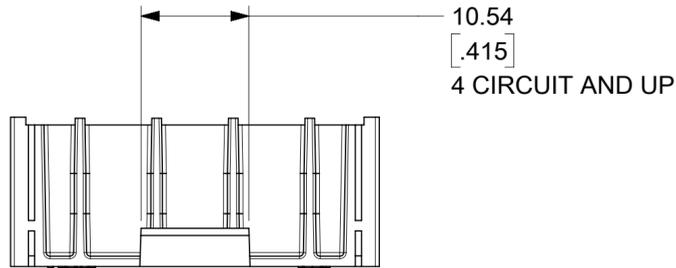
| | | | | | | |
|-----------------|---|----|------------------------|---------------------|--|----------------|
| SYMBOLS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | |
| | DIMENSION UNITS | | SCALE | | CURRENT REV/DESC: RELEASED | |
| ▽ = 0 | IN/MM | | 2:1 | | molex SABRE HEADER ASSEMBLY 2-6 & 8 CIRCUIT .125/(3.18) X .020/(0.51) PRODUCT CUSTOMER DRAWING | |
| ▽ = 0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | | | | |
| ▽ = 0 | | | MM | INCH | | |
| ▽ = 0 | 4 PLACES ± | | ± | ± | | |
| ▽ = 0 | 3 PLACES ± | | ± | ± 0.005 | EC NO: 623888 | |
| ▽ = 0 | 2 PLACES ± | | ± 0.13 | ± 0.01 | DRWN: MKIPPER 2019/09/06 | |
| ▽ = 0 | 1 PLACE ± | | ± 0.25 | ± | CHK'D: DSTEIER 2019/09/13 | |
| ▽ = 0 | 0 PLACES ± | | ± | ± | APPR: FSMITH 2019/09/17 | |
| ▽ = 0 | ANGULAR TOL ± 0.5° | | INITIAL REVISION: | | | |
| ▽ = 0 | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | THIRD ANGLE PROJECTION | | DRWN: MKIPPER 2019/09/06 | |
| ▽ = 0 | | | DRAWING SERIES | | APPR: FSMITH 2019/09/17 | |
| | | | C-SIZE 43160 | | 2019/09/06 | |
| DOCUMENT STATUS | | P1 | RELEASE DATE | 2019/09/17 14:17:52 | DOCUMENT NUMBER | DOC TYPE |
| | | | | | 431600001-SD | PSD |
| | | | | | MATERIAL NUMBER | CUSTOMER |
| | | | | | SEE CHARTS | GENERAL MARKET |
| | | | | | SHEET NUMBER | |
| | | | | | 4 OF 5 | |



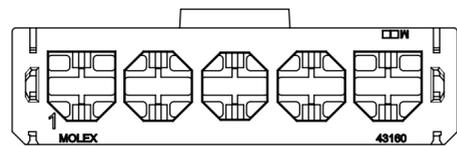
2 CIRCUITS



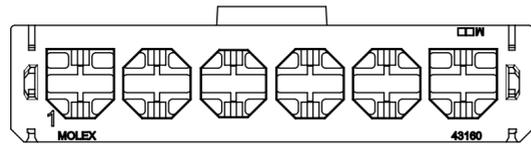
3 CIRCUITS



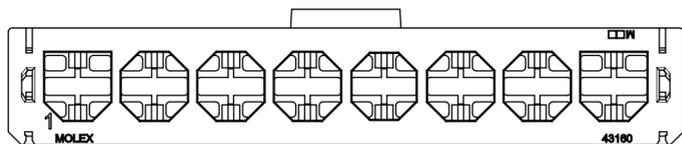
4 CIRCUITS



5 CIRCUITS



6 CIRCUITS



8 CIRCUITS

POLARIZATION

| | | | | | |
|---------|---|---------|------------------------|--|-----------------|
| 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: RELEASED | |
| ∇ = 0 | MM/INCH | 2:1 | | molex SABRE HEADER ASSEMBLY 2-6 & 8 CIRCUIT .125/(3.18) X .020/(0.51) PRODUCT CUSTOMER DRAWING | |
| ∇ = 0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | | | |
| ∇ = 0 | | MM | INCH | | |
| ∇ = 0 | 4 PLACES | ± | ± | | |
| ∇ = 0 | 3 PLACES | ± | ± 0.005 | EC NO: 623888 | |
| ∇ = 0 | 2 PLACES | ± 0.13 | ± 0.01 | DRWN: MKIPPER | 2019/09/06 |
| ∇ = 0 | 1 PLACE | ± 0.25 | ± | CHK'D: DSTEIER | 2019/09/13 |
| ∇ = 0 | 0 PLACES | ± | ± | APPR: FSMITH | 2019/09/17 |
| ∇ = 0 | ANGULAR TOL | ± 0.5 ° | | INITIAL REVISION: | |
| ∇ = 0 | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | THIRD ANGLE PROJECTION | DRWN: MKIPPER | 2019/09/06 |
| | | | | APPR: FSMITH | 2019/09/17 |
| | | | DRAWING | SERIES | MATERIAL NUMBER |
| | | | C-SIZE | 43160 | 431600001-SD |
| | | | | | CUSTOMER |
| | | | | | GENERAL MARKET |
| | | | | | SHEET NUMBER |
| | | | | | 5 OF 5 |

Mouser Electronics

Authorized Distributor

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[43160-4103](#)