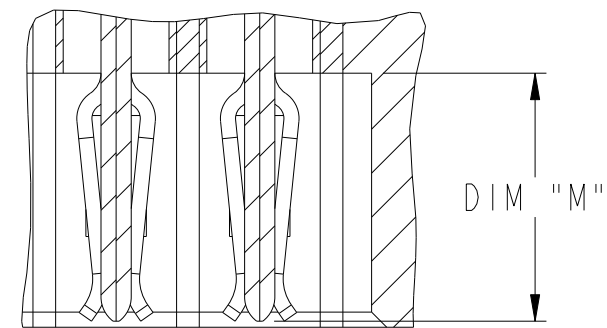


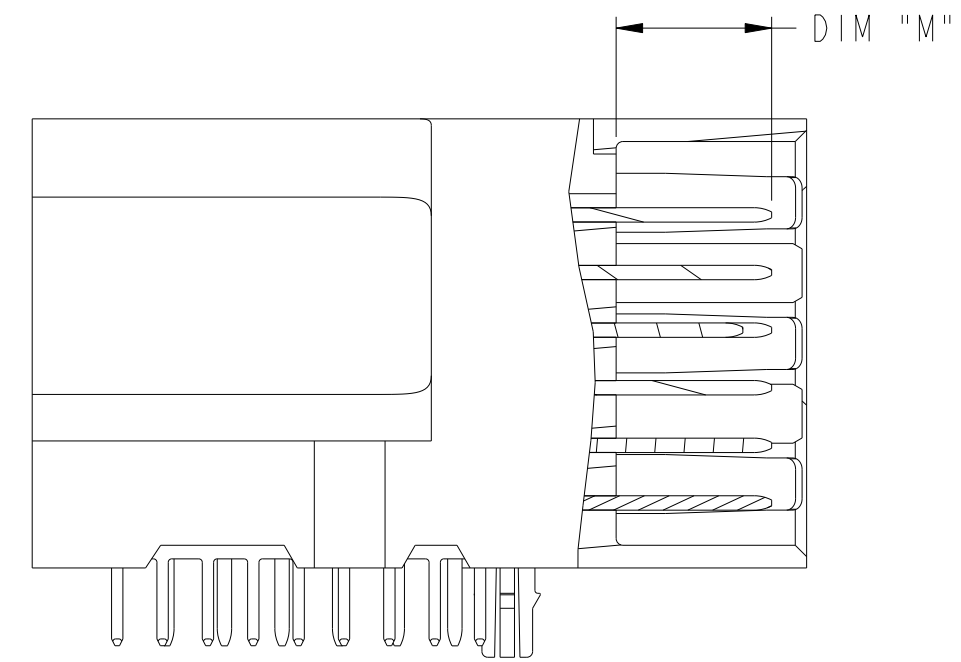
| | | | | | | | | | | | | |
|--|---------------------|---------------------|----------------|--|------------|------------------|----------------|--------|------------------------|--------------|----------|---|
| spec ref | * | dr | De-Ming Lu | 2015/05/05 | projection | MM | size | A2 | scale | 3:1 | | |
| tolerance std | ISO 406 ISO 1101 | eng | De-Ming Lu | 2017/02/22 | | | ecn no | - | rel level | | Released | |
| surface | ISO 1302 | chr | Fancy Zhang | 2017/02/22 | | | product family | PWRMAX | rel level | Released | rev | A |
| | | appr | Pei-Ming Zheng | 2017/02/22 | | | cat. no. | - | Product - Customer Drw | sheet 1 of 6 | | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED linear: 0.X ± 0.5, 0.XX ± 0.25, 0.XXX ± 0.100 angular: 0° ± 2° | | Amphenol FCI | | title: 2HP + 24S + 2HP RIGHT ANGLE PLUG, SOLDER TAILS | | dwg no: 10135064 | | rev: A | | | | |

Amphenol FCI

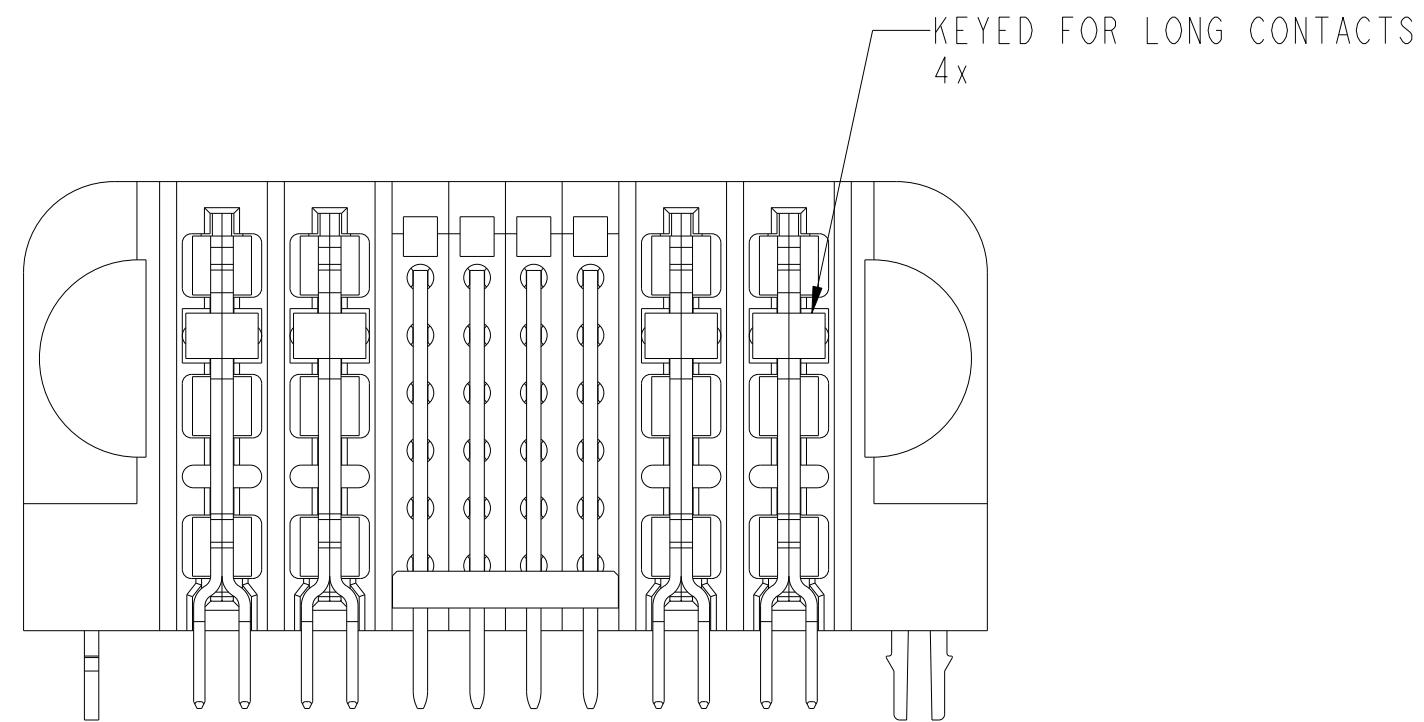
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DETAIL A
SCALE 4:1
 POWER MATING
 SEQUENCE



SECTION W-W
 SIGNAL MATING
 SEQUENCE

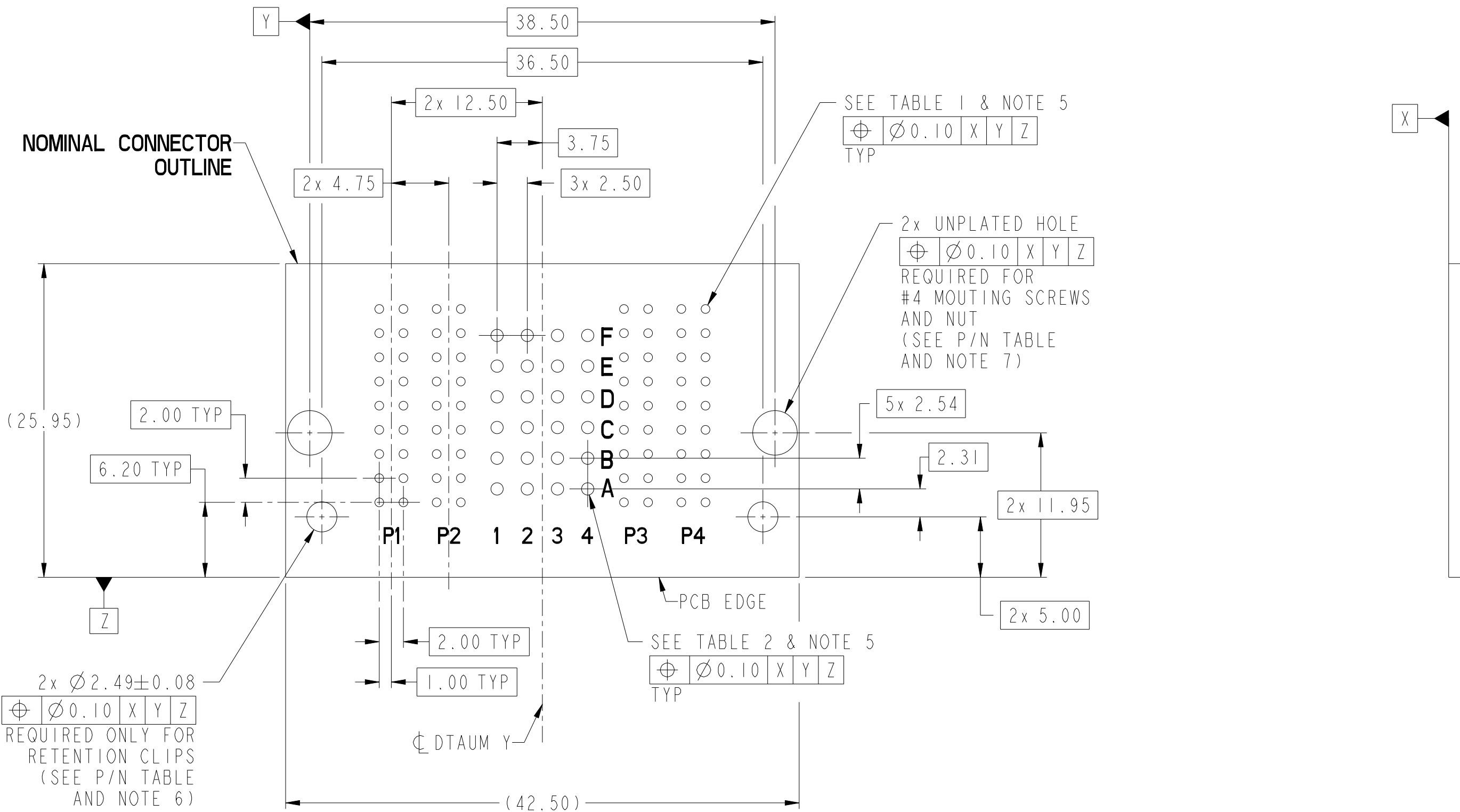


VIEW G-G

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| | | | | | | | | | | | | | | |
|---------------|---------------------|------|----------------|------------|------------|-------|-----------------|---------|---|----------|----------|-----|------------------------|--------------|
| spec ref | * | dr | De-Ming Lu | 2015/05/05 | projection | MM | size | A2 | scale | 3:1 | | | | |
| tolerance std | ISO 406 ISO 1101 | eng | De-Ming Lu | 2017/02/22 | | | ecn no | - | rel level | | Released | | | |
| surface | - | chr | Fancy Zhang | 2017/02/22 | | | product family | PWRMAX | rel level | Released | | | | |
| | | appr | Pei-Ming Zheng | 2017/02/22 | | | Amphenol FCi | title | 2HP + 24S + 2HP RIGHT ANGLE PLUG, SOLDER TAILS | dwg no | 10135064 | rev | A | |
| ISO 1302 | linear | 0.X | ±0.5 | 0.XX | ±0.25 | 0.XXX | ±0.100 | angular | 0° | ±2° | cat. no. | - | Product - Customer Drw | sheet 2 of 6 |



RECOMMENDED PCB LAYOUT
COMPONENT SIDE
NOTE 4

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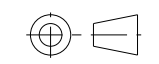
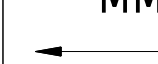
| | | | | | | | | | | | | |
|---------------|---|---------------------------------------|----------------|-------------|------------|-----------------|----------------|-----------------------|-----------|----------|--|--|
| spec ref | * | dr | De-Ming Lu | 2015/05/05 | projection | MM | size | A2 | scale | 3:1 | | |
| tolerance std | ISO 406 ISO 1101 | eng | De-Ming Lu | 2017/02/22 | | | ecn no | - | rel level | | Released | |
| surface | - | chr | Fancy Zhang | 2017/02/22 | | | product family | PWRMAX | rel level | Released | title Amphenol FCI 2HP + 24S + 2HP RIGHT ANGLE PLUG, SOLDER TAILS | |
| | | appr | Pei-Ming Zheng | 2017/02/22 | | | dwg no | 10135064 | rev | A | cat. no. - Product - Customer Drw sheet 3 of 6 | |
| ISO 1302 | linear 0.X ±0.5 0.XX ±0.25 0.XXX ±0.100 angular 0° ±2° | TOLERANCES UNLESS OTHERWISE SPECIFIED | | PDS: Rev :A | | STATUS:Released | | Printed: Feb 22, 2017 | | | | |

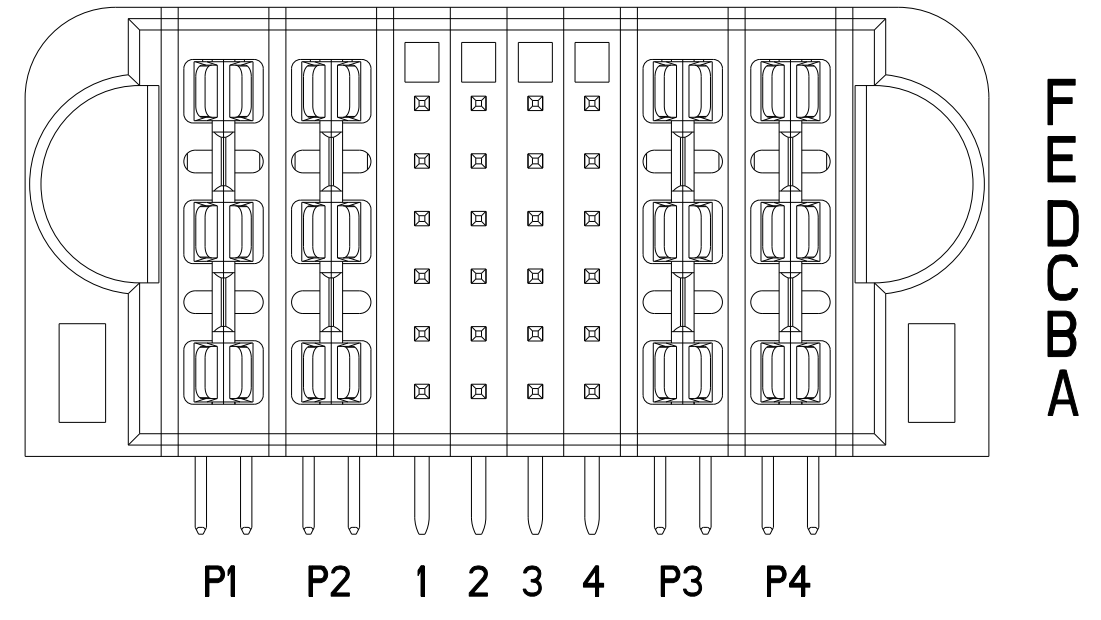
| TOP LAYER DESCRIPTION | TABLE 1 (PWRMAX POWER) PLATED THROUGH-HOLE REQUIREMENTS | | | | | | | |
|-----------------------|--|------------------|--------------------|------------------|--------------------|---------------|------------------|------------------------|
| | DRILLED HOLE DIAMETER | COPPER THICKNESS | TIN-LEAD THICKNESS | NICKEL THICKNESS | GOLD THICKNESS | TIN THICKNESS | SILVER THICKNESS | FINISHED HOLE DIAMETER |
| TIN-LEAD | 0.81-0.86 (0.85 DRILL) | 0.025 - 0.050 | 0.005 - 0.015 | -- | -- | -- | -- | 0.65 - 0.80 |
| IMMERSION TIN | 0.81-0.86 (0.85 DRILL) | 0.025 - 0.050 | -- | -- | -- | 0.9 - 1.5um | -- | 0.70 - 0.80 |
| IMMERSION SILVER | 0.81-0.86 (0.85 DRILL) | 0.025 - 0.050 | -- | -- | -- | -- | 0.15 - 0.65um | 0.70 - 0.80 |
| COPPER | 0.81-0.86 (0.85 DRILL) | 0.025 - 0.050 | -- | -- | -- | -- | -- | 0.70 - 0.80 |
| GOLD | 0.81-0.86 (0.85 DRILL) | 0.025 - 0.050 | -- | 0.003 - 0.007 | FLASH UP TO 0.0002 | -- | -- | 0.69 - 0.80 |

| TOP LAYER DESCRIPTION | TABLE 2 (PWRMAX SIGNALS & LOW POWER) PLATED THROUGH-HOLE REQUIREMENTS | | | | | | | |
|-----------------------|--|------------------|--------------------|------------------|--------------------|---------------|------------------|------------------------|
| | DRILLED HOLE DIAMETER | COPPER THICKNESS | TIN-LEAD THICKNESS | NICKEL THICKNESS | GOLD THICKNESS | TIN THICKNESS | SILVER THICKNESS | FINISHED HOLE DIAMETER |
| TIN-LEAD | 1.125-1.175 | 0.025-0.050 | 0.005-0.015 | -- | -- | -- | -- | 0.94 - 1.10 |
| IMMERSION TIN | 1.125-1.175 | 0.025-0.050 | -- | -- | -- | 0.9 - 1.5um | -- | 0.94 - 1.10 |
| IMMERSION SILVER | 1.125-1.175 | 0.025-0.050 | -- | -- | -- | -- | 0.15 - 0.65um | 0.94 - 1.10 |
| COPPER | 1.125-1.175 | 0.025-0.050 | -- | -- | -- | -- | -- | 0.94 - 1.10 |
| GOLD | 1.125-1.175 | 0.025-0.050 | -- | 0.003 - 0.007 | FLASH UP TO 0.0002 | -- | -- | 0.93 - 1.10 |

Amphenol FCI

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| | | | | | |
|---------------------------------------|---|---|---|-----------------|--------------------|
| spec ref * | dr De-Ming Lu 2015/05/05 | projection | MM | size A2 | scale 3:1 |
| tolerance std ISO 406 ISO 1101 | eng De-Ming Lu 2017/02/22 |  |  | ecn no - | rel level Released |
| TOLERANCES UNLESS OTHERWISE SPECIFIED | chr Fancy Zhang 2017/02/22 | | | | |
| | appr Pei-Ming Zheng 2017/02/22 | | | | |
| surface ISO 1302 | linear 0.X ±0.5 0.XX ±0.25 0.XXX ±0.100 | product family PWRMAX | Amphenol FCI | 2HP + 24S + 2HP | dwg no 10135064 |
| angular 0° ±2° | RIGHT ANGLE PLUG, SOLDER TAILS | cat. no. - | Product - Customer Drw | rev A | sheet 4 of 6 |



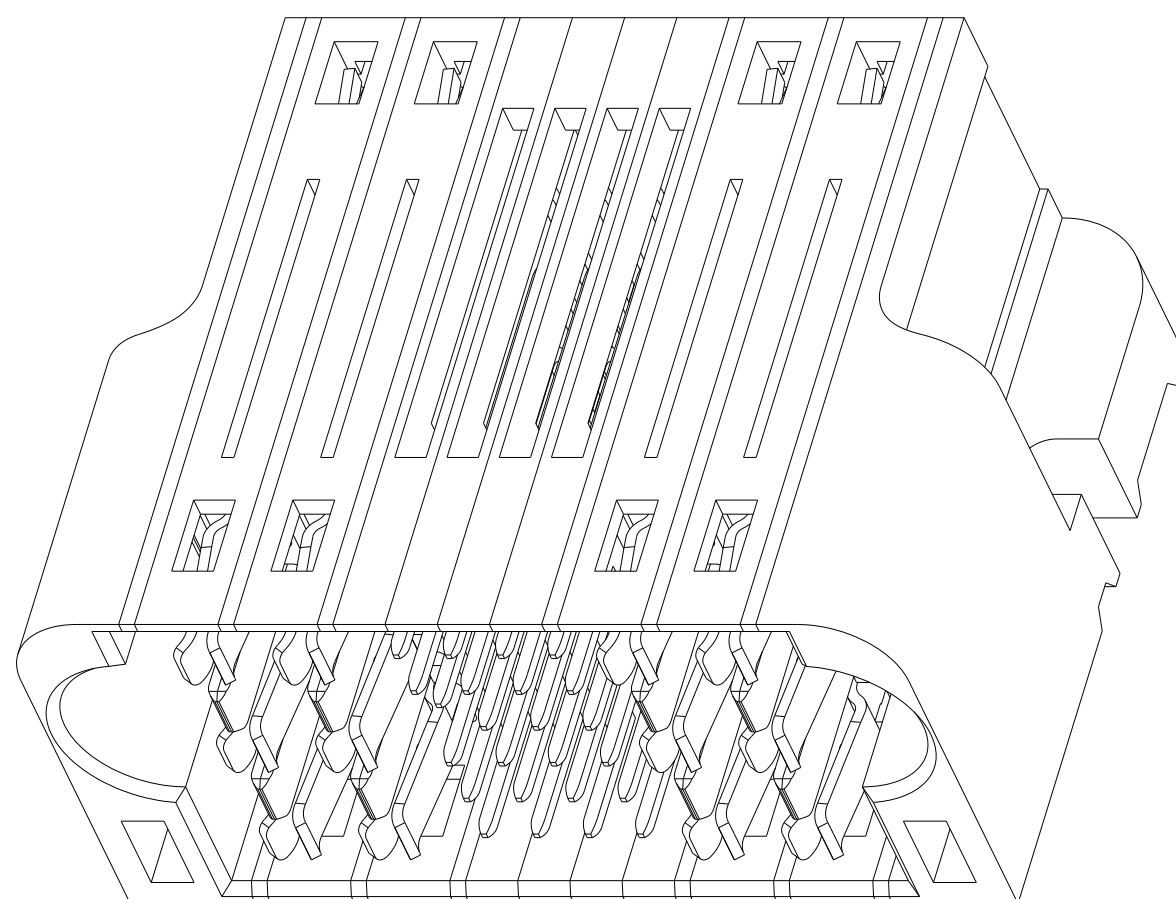
| CONTACT TYPE | ID# | MATING ORDER | DIM "M" |
|-----------------|-----|--------------|---------|
| HIGH POWER (DC) | P1 | LONG | 8.20 |
| | P2 | LONG | 8.20 |
| | P3 | LONG | 8.20 |
| | P4 | LONG | 8.20 |
| SIGNAL | 1A | LONG | 6.86 |
| | 1B | LONG | 6.86 |
| | 1C | LONG | 6.86 |
| | 1D | LONG | 6.86 |
| | 1E | LONG | 6.86 |
| | 1F | LONG | 6.86 |
| SIGNAL | 2A | LONG | 6.86 |
| | 2B | LONG | 6.86 |
| | 2C | LONG | 6.86 |
| | 2D | LONG | 6.86 |
| | 2E | LONG | 6.86 |
| | 2F | LONG | 6.86 |
| SIGNAL | 3A | LONG | 6.86 |
| | 3B | LONG | 6.86 |
| | 3C | LONG | 6.86 |
| | 3D | LONG | 6.86 |
| | 3E | LONG | 6.86 |
| | 3F | LONG | 6.86 |
| SIGNAL | 4A | LONG | 6.86 |
| | 4B | LONG | 6.86 |
| | 4C | LONG | 6.86 |
| | 4D | LONG | 6.86 |
| | 4E | LONG | 6.86 |
| | 4F | LONG | 6.86 |

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|---------------|---|----------|----------------|------------------------|--------------|----|---------------------|--------|--|--------------------|----------|
| spec ref | * | dr | De-Ming Lu | 2015/05/05 | projection | MM | size | A2 | scale | 3:1 | |
| tolerance std | ISO 406 ISO 1101 | eng | De-Ming Lu | 2017/02/22 | | | ecn no | - | | | |
| surface | linear 0.X ±0.5 0.XX ±0.25 0.XXX ±0.100 angular 0° ±2° | chr | Fancy Zhang | 2017/02/22 | | | product family | PWRMAX | rel level | Released | |
| | | appr | Pei-Ming Zheng | 2017/02/22 | | | Amphenol FCI | | title 2HP + 24S + 2HP RIGHT ANGLE PLUG, SOLDER TAILS | dwg no 10135064 | rev A |
| ISO 1302 | | cat. no. | - | Product - Customer Drw | sheet 5 of 6 | | | | | | |

| PART NUMBER | RETENTION CLIPS | #4 SCREW | DIM "T" (TAIL LENGTH) | TAIL TYPE | TOOLED |
|----------------|-----------------|----------|-----------------------|-------------|--------|
| 10135064-001LF | NO | OPTIONAL | 3.43 | SOLDER TAIL | YES |
| 10135064-002LF | NO | | 4.70 | SOLDER TAIL | NO |
| 10135064-003LF | YES | | 3.43 | SOLDER TAIL | YES |
| 10135064-004LF | YES | | 4.70 | SOLDER TAIL | NO |



NOTES:

- MATERIALS:
HOUSING: HIGH TEMP THERMOPLASTIC WITH GLASS FIBER, UL94V-0, BLACK.
POWER CONTACTS: HIGH PERFORMANCE COPPER ALLOY
SIGNAL CONTACT: COPPER ALLOY.
- PLATING SPECIFICATION:
POWER CONTACTS CONTACT AREA: GCS OVER NI
SIGNAL CONTACTS CONTACT AREA: GXT OVER NI
TAIL AREA: MATTE SN OVER NI
- PRODUCT MARK:
PART NUMBER AND DATE CODE TO BE MARKED ON THIS SURFACE.
THE MARK CAN BE OMITTED IF THERE IS NOT ENOUGH SPACE ON THIS SURFACE.
- MINIMUM NOMINAL PCB THICKNESS: 1.6mm
- ALL HOLE SIZES ARE FINISHED HOLE SIZES.
- MOUNTING HOLES ARE UNPLATED.
- SCREW MOUNTING HOLE DIMENSION:
Ø3.683±0.05mm FOR GENERAL NUT.
Ø4.216±0.05mm FOR PEM NUT.
- THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE FOR 10 SECONDS IN A WAVE SOLDER APPLICATION.
- THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004.
- PRODUCT SPECIFICATION: GS-12-1314.
APPLICATION SPECIFICATION: GS-20-0447.
PACKAGE IN TRAYS, PER SPECIFICATION: GS-14-2523.

| | | | | | | | | | | |
|---------------------------------------|---------------------|---------|----------------|------------|--------------------------------|----|------------------------|----------|--------------|----------|
| spec ref | * | dr | De-Ming Lu | 2015/05/05 | projection | MM | size | A2 | scale | 3:1 |
| tolerance std | ISO 406 ISO 1101 | eng | De-Ming Lu | 2017/02/22 | | | ecn no | - | | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED | | chr | Fancy Zhang | 2017/02/22 | | | rel level | Released | | |
| surface | ISO 1302 | appr | Pei-Ming Zheng | 2017/02/22 | | | product family | PWRMAX | dwg no | 10135064 |
| | | linear | 0.X | ±0.5 | Amphenol FCI | | 2HP + 24S + 2HP | | | |
| | | | 0.XX | ±0.25 | RIGHT ANGLE PLUG, SOLDER TAILS | | | | | |
| | | | 0.XXX | ±0.100 | | | | | | |
| | | angular | 0° | ±2° | | | Product - Customer Drw | | sheet 6 of 6 | |