



**Distributor of Molex Connector Corporation: Excellent Integrated System Limited**  
Datasheet of 0901512106 - Connector Receptacle 6 Position 0.100" (2.54mm) Tin Through Hole

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## Excellent Integrated System Limited

Stocking Distributor

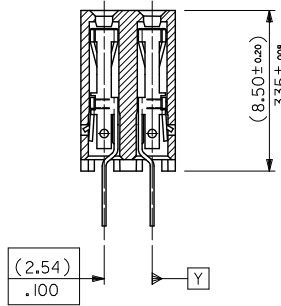
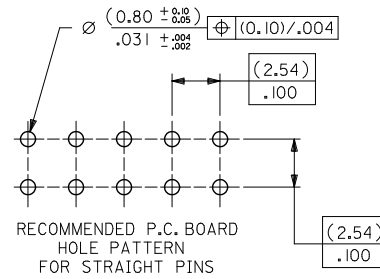
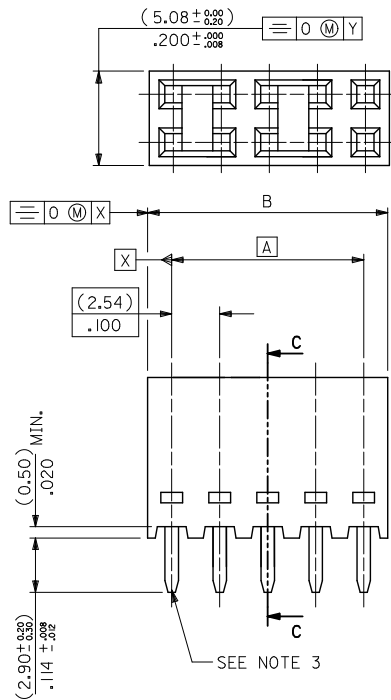
Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Molex Connector Corporation](#)  
[0901512106](#)

For any questions, you can email us directly:

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Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



SECTION C-C

NOTES :

1. CONTACT-PLATED PHOSPHOR BRONZE.
2. HOUSING : 15% GLASS-FILLED POLYESTER, COLOUR BLACK.
3. COMPATIBLE WITH PCB HOLE PATTERN.
4. FOR (0.635)/.025 SQ. PINS THE LENGTH MUST BE (5.65)/.222 MIN & (7.00)/.276 MAX. TO ENSURE GOOD CONNECTION WITH CONTACT.

| UPDATE AS PER GCNS |  | QUALITY SYMBOLS |  | GENERAL TOLERANCES (UNLESS SPECIFIED)                |  | DIMENSION STYLE |  | SCALE        |  | DESIGN UNITS                                                                                                                  |  | THIRD ANGLE PROJECTION |  |
|--------------------|--|-----------------|--|------------------------------------------------------|--|-----------------|--|--------------|--|-------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|
| EC NO: S2012-0542  |  | DRAWN BY        |  | mm                                                   |  | MM ONLY         |  | NTS          |  | METRIC                                                                                                                        |  |                        |  |
| 2012/01/13         |  | DB              |  | 4 PLACES ± ---                                       |  | DATE            |  | 21/07/86     |  | TITLE                                                                                                                         |  | C-GRID III DUAL ROW    |  |
| 2012/02/06         |  | DB              |  | 3 PLACES ± ---                                       |  | CHECKED BY      |  | DATE         |  | 21/07/86                                                                                                                      |  | VERTICAL P.C. BOARD    |  |
| 2012/02/24         |  | DB              |  | 2 PLACES ± 0.05                                      |  | APPROVED BY     |  | DATE         |  | 2012/02/24                                                                                                                    |  | CONNECTOR              |  |
|                    |  | MLONG           |  | 1 PLACE ± 0.10                                       |  | MATERIAL NO.    |  | DOCUMENT NO. |  | SD-90151-001                                                                                                                  |  | MOLEX INCORPORATED     |  |
|                    |  |                 |  | ANGULAR ± ---°                                       |  | SIZE            |  | A3           |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  | SHEET NO.              |  |
|                    |  |                 |  | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |  |                 |  |              |  |                                                                                                                               |  | 1 OF 2                 |  |

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| PART NO.<br>STRAIGHT<br>PINS | NO. OF<br>CKTS. | DIM. "A"        | DIM. "B"<br>( $\pm 0.00$ ) ( $\pm 0.02$ ) | QTY. PER<br>TUBE |
|------------------------------|-----------------|-----------------|-------------------------------------------|------------------|
| 90151-2X04                   | 4               | ( 2.54 ) .100   | ( 5.08 ) .200                             | 105              |
| ↑ ↑ 06                       | 6               | ( 5.08 ) .200   | ( 7.62 ) .300                             | 72               |
| 08                           | 8               | ( 7.62 ) .300   | ( 10.16 ) .400                            | 52               |
| 10                           | 10              | ( 10.16 ) .400  | ( 12.70 ) .500                            | 44               |
| 12                           | 12              | ( 12.70 ) .500  | ( 15.24 ) .600                            | 36               |
| 14                           | 14              | ( 15.24 ) .600  | ( 17.78 ) .700                            | 30               |
| 16                           | 16              | ( 17.78 ) .700  | ( 20.32 ) .800                            | 26               |
| 18                           | 18              | ( 20.32 ) .800  | ( 22.86 ) .900                            | 24               |
| 20                           | 20              | ( 22.86 ) .900  | ( 25.40 ) 1.000                           | 22               |
| 22                           | 22              | ( 25.40 ) 1.000 | ( 27.94 ) 1.100                           | 20               |
| 24                           | 24              | ( 27.94 ) 1.100 | ( 30.48 ) 1.200                           | 18               |
| 26                           | 26              | ( 30.48 ) 1.200 | ( 33.02 ) 1.300                           | 16               |
| 28                           | 28              | ( 33.02 ) 1.300 | ( 35.56 ) 1.400                           | 14               |
| 30                           | 30              | ( 35.56 ) 1.400 | ( 38.10 ) 1.500                           | 14               |
| 32                           | 32              | ( 38.10 ) 1.500 | ( 40.64 ) 1.600                           | 13               |
| 34                           | 34              | ( 40.64 ) 1.600 | ( 43.18 ) 1.700                           | 12               |
| 36                           | 36              | ( 43.18 ) 1.700 | ( 45.72 ) 1.800                           | 12               |
| 38                           | 38              | ( 45.72 ) 1.800 | ( 48.26 ) 1.900                           | 11               |
| 40                           | 40              | ( 48.26 ) 1.900 | ( 50.80 ) 2.000                           | 11               |
| 42                           | 42              | ( 50.80 ) 2.000 | ( 53.34 ) 2.100                           | 11               |
| 44                           | 44              | ( 53.34 ) 2.100 | ( 55.88 ) 2.200                           | 10               |
| 46                           | 46              | ( 55.88 ) 2.200 | ( 58.42 ) 2.300                           | 10               |
| 48                           | 48              | ( 58.42 ) 2.300 | ( 60.96 ) 2.400                           | 9                |
| 50                           | 50              | ( 60.96 ) 2.400 | ( 63.50 ) 2.500                           | 8                |
| 52                           | 52              | ( 63.50 ) 2.500 | ( 66.04 ) 2.600                           | 8                |
| 54                           | 54              | ( 66.04 ) 2.600 | ( 68.58 ) 2.700                           | 8                |
| 56                           | 56              | ( 68.58 ) 2.700 | ( 71.12 ) 2.800                           | 7                |
| 58                           | 58              | ( 71.12 ) 2.800 | ( 73.66 ) 2.900                           | 7                |
| 60                           | 60              | ( 73.66 ) 2.900 | ( 76.20 ) 3.000                           | 7                |
| ↓ ↓ 62                       | 62              | ( 76.20 ) 3.000 | ( 78.74 ) 3.100                           | 7                |
| 90151-2X64                   | 64              | ( 78.74 ) 3.100 | ( 81.28 ) 3.200                           | 6                |

## PLATING VERSION A

PRE-PLATED HOT DIP TIN  
1.0 TO 2.5  $\mu\text{m}$  (.000040" TO .000100").

## PLATING VERSION E

1.27 TO 1.78  $\mu\text{m}$  (.000050" TO .000070") NICKEL  
OVERALL, 0.38 TO 0.64  $\mu\text{m}$  (.000015" TO .000025")  
GOLD ON CONTACT AREA (OVER NICKEL).  
3 TO 5  $\mu\text{m}$  (.000120" TO .000200") TIN  
ON SOLDER TAILS (OVER NICKEL).

## PLATING VERSION F.

1.27 TO 1.78  $\mu\text{m}$  (.000050" TO .000070") NICKEL  
OVERALL, 0.76 TO 1.0  $\mu\text{m}$  (.000030" TO .000040")  
GOLD ON CONTACT AREA (OVER NICKEL).  
3 TO 5  $\mu\text{m}$  (.000120" TO .000200") TIN  
ON SOLDER TAILS (OVER NICKEL).

## PLATING VERSION G.

1.27 TO 1.78  $\mu\text{m}$  (.000050" TO .000070") NICKEL  
OVERALL, 0.125  $\mu\text{m}$  MIN. (.000005" MIN.) GOLD FLASH  
ON CONTACT AREA (OVER NICKEL).  
3 TO 5  $\mu\text{m}$  (.000120" TO .000200") TIN  
ON SOLDER TAILS (OVER NICKEL).

## PLATING VERSION N.

1.27 TO 1.78  $\mu\text{m}$  (.000050" TO .000070") NICKEL  
OVERALL, 0.76 TO 2.6  $\mu\text{m}$  (.000030" TO .000100")  
GOLD ON CONTACT AREA (OVER NICKEL).  
4  $\mu\text{m}$  (.000120") MINIMUM TIN  
ON SOLDER TAILS (OVER NICKEL).

## STANDARD PRODUCTS

90151-XXYY

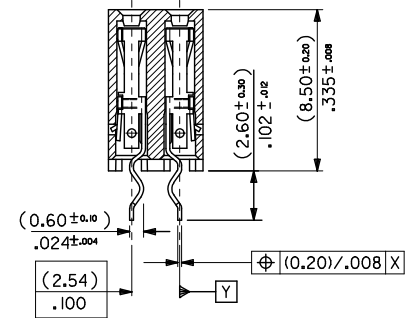
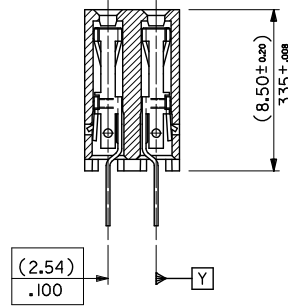
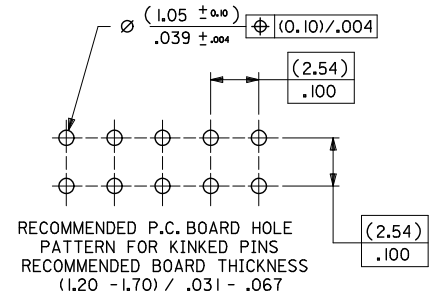
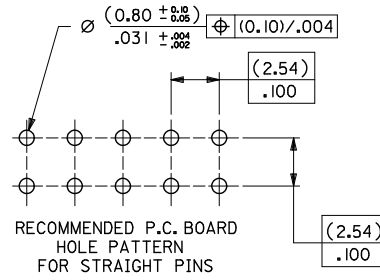
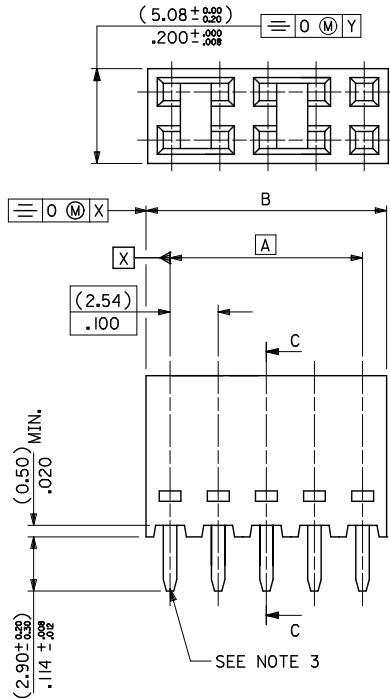
INDICATES NO. OF CIRCUITS.

SEE CHART

PLATING CODE.  
1 = VERSION A.  
2 = VERSION E.  
3 = VERSION F.  
4 = VERSION N.  
5 = VERSION G.

|                                                                                                                               |  |                    |             |     |                                                            |       |      |                            |            |                                                                                                                                  |                        |                           |  |
|-------------------------------------------------------------------------------------------------------------------------------|--|--------------------|-------------|-----|------------------------------------------------------------|-------|------|----------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------|--|
| UPDATE AS PER GCNS<br>EC NO. S2012-0542<br>2012/01/13<br>DRAWN: SEE<br>2012/02/06<br>CHKD: SKANG<br>2012/02/24<br>APPR: MLONG |  | QUALITY<br>SYMBOLS | DESCRIPTION | REV | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |       |      | DIMENSION STYLE<br>MM ONLY |            | SCALE<br>NTS                                                                                                                     | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |
|                                                                                                                               |  |                    |             |     |                                                            | mm    | INCH | DRAWN BY                   | DATE       | TITLE                                                                                                                            |                        |                           |  |
| AI                                                                                                                            |  | ▽=0<br>▽=0<br>▽=0  |             |     | 4 PLACES                                                   | ±---  | ±--- | DB                         | 21/07/86   | C-GRID III DUAL ROW<br>VERTICAL P.C. BOARD<br>CONNECTOR                                                                          |                        |                           |  |
|                                                                                                                               |  |                    |             |     | 3 PLACES                                                   | ±---  | ±--- | CHECKED BY                 | DATE       |                                                                                                                                  |                        |                           |  |
|                                                                                                                               |  |                    |             |     | 2 PLACES                                                   | ±0.05 | ±--- | DB                         | 21/07/86   | MOLEX INCORPORATED                                                                                                               |                        |                           |  |
|                                                                                                                               |  |                    |             |     | 1 PLACE                                                    | ±0.10 | ±--- | APPROVED BY                | DATE       |                                                                                                                                  |                        |                           |  |
|                                                                                                                               |  |                    |             |     | ANGULAR ±---                                               |       |      | MLONG                      | 2012/02/24 | MOLEX                                                                                                                            |                        |                           |  |
|                                                                                                                               |  |                    |             |     |                                                            |       |      | MATERIAL NO.               |            | DOCUMENT NO.                                                                                                                     |                        | SHEET NO.                 |  |
|                                                                                                                               |  |                    |             |     | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       |      | SEE TABLE                  |            | SD-90151-001                                                                                                                     |                        | 2 OF 2                    |  |
|                                                                                                                               |  |                    |             |     |                                                            |       |      | SIZE<br>A3                 |            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                           |  |

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#### NOTES

- 1) CONTACT-PLATED PHOSPHOR BRONZE.
- 2) HOUSING-15% GLASS FILLED POLYESTER. COLOUR-BLACK.
- 3) COMPATIBLE WITH PCB HOLE PATTERN.
- 4) FOR (0.635) .025 SQ. MALE PINS THE LENGTH MUST BE (5.65) .222 MIN & (7.00) .276 MAX. TO ENSURE GOOD CONNECTION WITH CONTACT.

|                                                                                                                              |             |                                   |                                                                                                                                  |        |                            |                |                     |                                                                  |                                                                                       |                           |
|------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------|----------------|---------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------|
| ADD INSET FOR GATE<br>EC NO: E2009-0250<br>DRAWN: BMAGUIRE 2008/12/08<br>CHKD: 2008/12/08<br>APPR: BMAGUIRE 2008/12/08<br>AH | DESCRIPTION | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                            |        | DIMENSION STYLE<br>MM ONLY |                | SCALE<br>1:1        | DESIGN UNITS<br>METRIC                                           |  | THIRD ANGLE<br>PROJECTION |
|                                                                                                                              |             |                                   |                                                                                                                                  | mm     | INCH                       | DRAWN BY<br>DB | DATE<br>21/07/86    | TITLE<br>C-GRID III DUAL ROW<br>VERTICAL P.C. BOARD<br>CONNECTOR |                                                                                       |                           |
|                                                                                                                              |             |                                   | 4 PLACES                                                                                                                         | ± ---  | ± ---                      | CHECKED BY     |                     | DATE                                                             |                                                                                       |                           |
|                                                                                                                              |             |                                   | 3 PLACES                                                                                                                         | ± ---  | ± ---                      | APPROVED BY    |                     | DATE                                                             |                                                                                       |                           |
|                                                                                                                              |             |                                   | 2 PLACES                                                                                                                         | ± 0.05 | ± ---                      | MATERIAL NO.   |                     | DOCUMENT NO.                                                     |                                                                                       |                           |
|                                                                                                                              |             |                                   | 1 PLACE                                                                                                                          | ± 0.10 | ± ---                      | SIZE<br>A3     |                     | SDA-90151                                                        |                                                                                       |                           |
|                                                                                                                              |             |                                   | ANGULAR ± ---°                                                                                                                   |        | SEE CHART                  |                | SHEET NO.<br>1 OF 5 |                                                                  |                                                                                       |                           |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                   |             |                                   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |        |                            |                |                     |                                                                  |                                                                                       |                           |

Hole

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**PLATING VERSION A**

PRE-PLATED HOT DIP CUP  
1.0 TO 2.5  $\mu\text{m}$  (.000040" TO .000100").

**PLATING VERSION E**

1.27 TO 1.78  $\mu\text{m}$  (.000050" TO .000070") NICKEL  
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3 TO 5  $\mu\text{m}$  (.000120" TO .000200") TIN  
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GOLD ON CONTACT AREA (OVER NICKEL).  
4  $\mu\text{m}$  (.000120") MINIMUM TIN  
ON SOLDER TAILS (OVER NICKEL).

**STANDARD PRODUCTS**

90151-XXXX

INDICATES NO. OF CIRCUITS.

PLATING CODE.  
1 = VERSION A.  
2 = VERSION E.  
3 = VERSION F.  
4 = VERSION N.  
5 = VERSION G.

SEE CHART

FOR PREVIOUS  
DRAWING ISSUES  
SEE MRI.

LEAD FREE CONVERSION  
NEW BORDER ADDED  
EC NO. E2004-0610  
DRAWN: PSH/CHAN 06/01/2004  
CHK: CH/K  
APP: AH

QUALITY  
SYMBOLS  
MAJOR  
CRITICAL  
REV

GENERAL TOLERANCES:  
(UNLESS SPECIFIED):  
4 PLACES  $\pm 0.1$  mm  $\pm .004$  INCH  
3 PLACES  $\pm 0.2$  mm  $\pm .008$  INCH  
2 PLACES  $\pm 0.3$  mm  $\pm .012$  INCH  
1 PLACE  $\pm 0.5$  mm  $\pm .020$  INCH  
ANGULAR:  $\pm 0.5^\circ$   
DRAFT WHERE APPLICABLE MUST  
REMAIN WITHIN DIMENSIONS

SCALE DESIGN UNITS  
[X] mm [ ] INCH  
DRAWN BY & DATE  
DB 14/ 7/87  
CHECKED BY & DATE  
APPROVED BY & DATE  
CAD FILENAME S490151X2  
DGN  
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX  
INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.

DIMENSIONS:  
[ ] mm [ ] INCH [ ] mm ONLY  
SHIT REV  
REVISE ON  
CAD ONLY  
TITLE:  
C-GRID III  
DUAL ROW VERTICAL  
P.C. BOARD CONNECTOR  
MOLEX MOLEX INCORPORATED  
MATERIAL NO.  
SEE CHART  
DRAWING NO.  
SDA-90151  
SHEET NO.  
20F  
SIZE  
B

| PART NO.<br>STRAIGHT<br>PINS | PART NO.<br>KINKED<br>PINS | NO. OF<br>CIRCUITS | DIM. "A"<br>(.001") | DIM. "B"<br>(.001") | QTY. PER<br>TUBE |
|------------------------------|----------------------------|--------------------|---------------------|---------------------|------------------|
| 90151-2X04                   | 90151-3X04                 | 4                  | ( 2.54 ) .100       | ( 5.08 ) .200       | 105              |
| 06                           | 06                         | 6                  | ( 5.08 ) .200       | ( 7.62 ) .300       | 72               |
| 08                           | 08                         | 8                  | ( 7.62 ) .300       | ( 10.16 ) .400      | 52               |
| 10                           | 10                         | 10                 | ( 10.16 ) .400      | ( 12.70 ) .500      | 44               |
| 12                           | 12                         | 12                 | ( 12.70 ) .500      | ( 15.24 ) .600      | 36               |
| 14                           | 14                         | 14                 | ( 15.24 ) .600      | ( 17.78 ) .700      | 30               |
| 16                           | 16                         | 16                 | ( 17.78 ) .700      | ( 20.32 ) .800      | 26               |
| 18                           | 18                         | 18                 | ( 20.32 ) .800      | ( 22.86 ) .900      | 24               |
| 20                           | 20                         | 20                 | ( 22.86 ) .900      | ( 25.40 ) 1.000     | 22               |
| 22                           | 22                         | 22                 | ( 25.40 ) 1.000     | ( 27.94 ) 1.100     | 20               |
| 24                           | 24                         | 24                 | ( 27.94 ) 1.100     | ( 30.48 ) 1.200     | 18               |
| 26                           | 26                         | 26                 | ( 30.48 ) 1.200     | ( 33.02 ) 1.300     | 16               |
| 28                           | 28                         | 28                 | ( 33.02 ) 1.300     | ( 35.56 ) 1.400     | 14               |
| 30                           | 30                         | 30                 | ( 35.56 ) 1.400     | ( 38.10 ) 1.500     | 14               |
| 32                           | 32                         | 32                 | ( 38.10 ) 1.500     | ( 40.64 ) 1.600     | 13               |
| 34                           | 34                         | 34                 | ( 40.64 ) 1.600     | ( 43.18 ) 1.700     | 12               |
| 36                           | 36                         | 36                 | ( 43.18 ) 1.700     | ( 45.72 ) 1.800     | 12               |
| 38                           | 38                         | 38                 | ( 45.72 ) 1.800     | ( 48.26 ) 1.900     | 11               |
| 40                           | 40                         | 40                 | ( 48.26 ) 1.900     | ( 50.80 ) 2.000     | 11               |
| 42                           | 42                         | 42                 | ( 50.80 ) 2.000     | ( 53.34 ) 2.100     | 11               |
| 44                           | 44                         | 44                 | ( 53.34 ) 2.100     | ( 55.88 ) 2.200     | 10               |
| 46                           | 46                         | 46                 | ( 55.88 ) 2.200     | ( 58.42 ) 2.300     | 10               |
| 48                           | 48                         | 48                 | ( 58.42 ) 2.300     | ( 60.96 ) 2.400     | 9                |
| 50                           | 50                         | 50                 | ( 60.96 ) 2.400     | ( 63.50 ) 2.500     | 8                |
| 52                           | 52                         | 52                 | ( 63.50 ) 2.500     | ( 66.04 ) 2.600     | 8                |
| 54                           | 54                         | 54                 | ( 66.04 ) 2.600     | ( 68.58 ) 2.700     | 8                |
| 56                           | 56                         | 56                 | ( 68.58 ) 2.700     | ( 71.12 ) 2.800     | 7                |
| 58                           | 58                         | 58                 | ( 71.12 ) 2.800     | ( 73.66 ) 2.900     | 7                |
| 60                           | 60                         | 60                 | ( 73.66 ) 2.900     | ( 76.20 ) 3.000     | 7                |
| 62                           | 62                         | 62                 | ( 76.20 ) 3.000     | ( 78.74 ) 3.100     | 7                |
| 90151-2X64                   | 90151-3X64                 | 64                 | ( 78.74 ) 3.100     | ( 81.28 ) 3.200     | 6                |