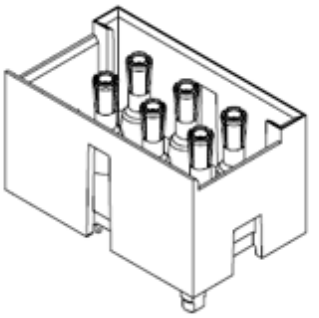
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one company > a world of innovation

This document was generated on 05/15/2010

# PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** 0747121008
**Status:** Active
**Overview:** ganged_rf
**Description:** 6.25mm (.246") Pitch Ganged RF Header, Vertical, 6 Circuits, Long Tails, Without Packaging Header



*Series image - Reference only*

**Documents:**

Drawing (PDF)
Packaging Specification (PDF)
Product Specification PS-74854-001 (PDF)
RoHS Certificate of Compliance (PDF)

## General

| | |
|---|---|
| Product Family | Backplane Connectors |
| Series | 74712 |
| Application | Backplane |
| Comments | Ports Numbered 2, and 8 Loaded |
| Component Type | PCB Header |
| Overview | ganged_rf |
| Product Name | Ganged RF |
| Style | N/A |

## Physical

| | |
|---|---|
| Circuits (Loaded) | 4 |
| Circuits (maximum) | 6 |
| Circuits Detail | 6 |
| Color - Resin | Natural |
| Durability (mating cycles max) | 500 |
| First Mate / Last Break | No |
| Guide to Mating Part | No |
| Keying to Mating Part | Yes |
| Material - Metal | Copper |
| Material - Resin | High Temperature Thermoplastic |
| Number of Columns | 3 |
| Number of Pairs | N/A |
| Number of Rows | 2 |
| Orientation | Vertical |
| PC Tail Length (in) | 0.141 In |
| PC Tail Length (mm) | 3.58 mm |
| PCB Locator | Yes |
| PCB Retention | None |
| PCB Thickness Recommended (in) | 0.177 In |
| PCB Thickness Recommended (mm) | 4.50 mm |
| Packaging Type | Tray |
| Pitch - Mating Interface (in) | 0.246 In |
| Pitch - Mating Interface (mm) | 6.25 mm |
| Pitch - Term. Interface (in) | 0.049 In, 0.148 In |
| Pitch - Term. Interface (mm) | 1.25 mm, 3.75 mm |
| Polarized to PCB | Yes |
| Stackable | No |
| Surface Mount Compatible (SMC) | No |
| Temperature Range - Operating | -40°C to +85°C |
| Termination Interface: Style | Through Hole - Compliant Pin |

## Electrical

| | |
|---|---|
| Current - Maximum per Contact | 1A |
| Data Rate | 3.0 Gbps |
| Real Signals (per 25mm) | 8 |

**EU RoHS**
**RoHS Compliant by Exemption**
**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**
74712Series

**Mates With**
74642 Ganged RF Receptacle

| | |
|---|---|
| Shielded | No |
| Voltage - Maximum | 50V AC |

## Material Info

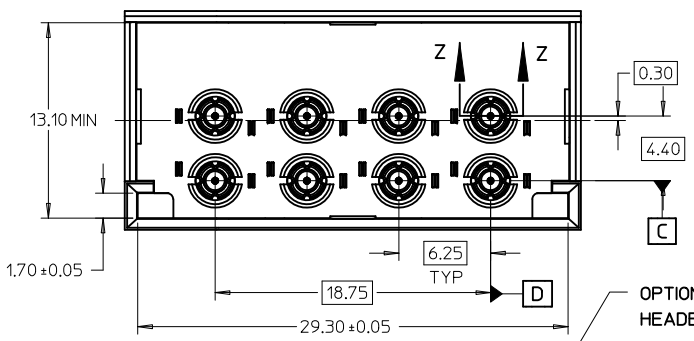
## Reference - Drawing Numbers

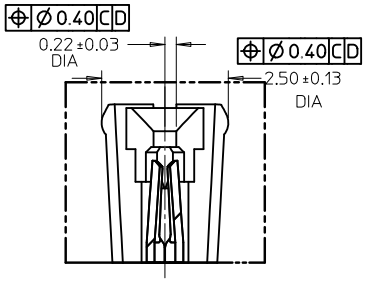
| | |
|---|---|
| Packaging Specification | PK-74712-102 |
| Product Specification | PS-74854-001 |
| Sales Drawing | SD-74712-003 |

This document was generated on 05/15/2010
**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

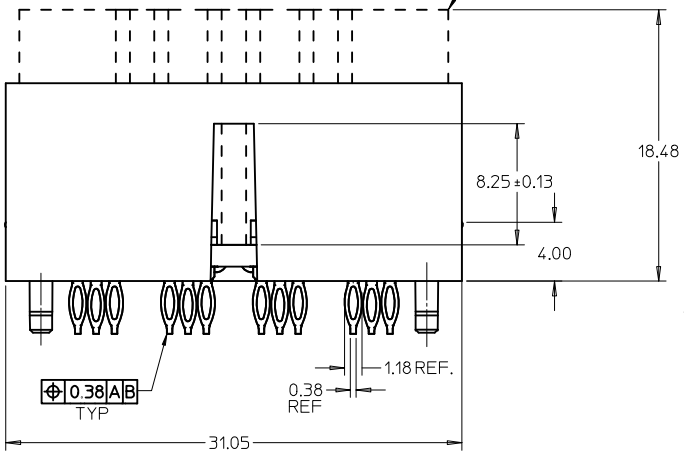
74712

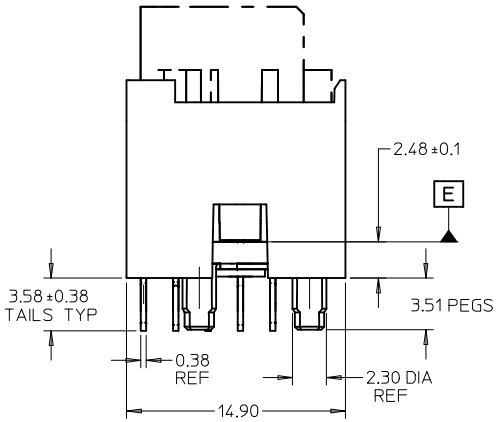
| MATERIAL NO. | TERMINAL LOADING BY POSITION | PACKAGING |
|---|---|---|
| 74712-0001 | 2, 5, 8, 11 | PK-74712-001 |
| 74712-0002 | 2 | PK-74712-001 |
| 74712-0003 | 2, 5, 8, 11 | PK-74712-002 |



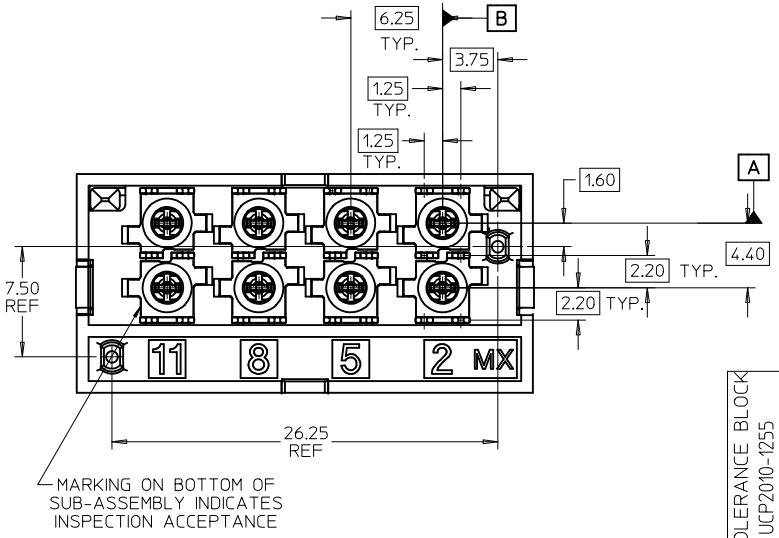

SECTION Z Z
SCALE 14:1



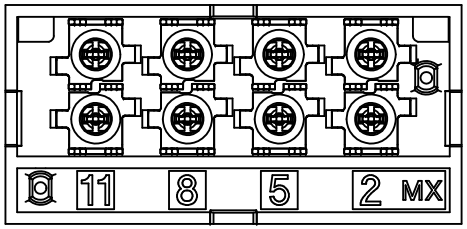

NOTES:

1. MATERIAL:
   HOUSING: GLASS FILLED THERMO PLASTIC, 94V-0
   INSULATOR: GLASS FILLED THERMO PLASTIC, 94V-0
   PACKAGING HEADER: GLASS FILLED THERMO PLASTIC, 94V-0
   TERMINALS AND GROUND: TIN BRASS
   OUTER GROUND CONTACT: PHOSPHOR BRONZE
2. PLATING:
   TERMINALS:
   SELECTIVE 0.76 MICRONS MIN. GOLD IN CONTACT AREA
   SELECTIVE 0.88 MICRONS MIN. TIN BOTH OVER
   1.27 MICRONS MIN. NICKEL UNDERPLATE
   GROUNDS:
   0.88 MICRONS MIN. TIN OVERALL OVER
   1.27 MICRONS MIN. NICKEL UNDERPLATE
   OUTER GROUND CONTACT:
   0.76 MICRONS MIN. GOLD OVERALL OVER
   1.27 MICRONS MIN. NICKEL UNDERPLATE
3. REFER TO PRODUCT SPEC.: PS-74854-001 FOR ELECTRICAL, MECHANICAL AND ENVIRONMENTAL REQUIREMENTS.
4. REFER TO PACKAGING SPEC STATED IN CHARTS FOR DETAILS OF THE PACKAGING REQUIREMENTS.
5. DATE CODE MARKING TO BE LOCATED ANYWHERE ON PLASTIC HOUSING. FIRST TWO DIGITS = WEEK NUMBER. LAST TWO DIGITS = YEAR.
6. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF MOLEX COSMETIC SPECIFICATION PS-45499-002.

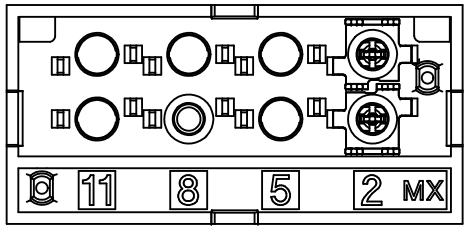



8 POS. CONNECTOR SHOWN

## CONTACT LOADING OPTIONS FOR 8 POS CONNECTORS




MAT'L NO. 747120001/0003
POSITION 2,5,8 & 11 LOADED




MAT'L NO. 747120002
POSITION 2 LOADED

ADD TOLERANCE BLOCK
EC NO: UCP2010-1255 2009/11/17
DRWN: JMENDOZA 2009/11/23
CH'KD:
APPR: JBINGHAM 2009/11/23
DESCRIPTION
REV
E1

QUALITY SYMBOLS
▼ - 0
▽ (C) - 0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± 0.13 | ± --- |
| 1 PLACE | ± 0.25 | ± --- |
| ANGULAR ± 2 ° | | |

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

SCALE 4:1
DESIGN UNITS METRIC
THIRD ANGLE PROJECTION
REVISE ON CAD ONLY
DIMENSION STYLE MM ONLY
DRAWN BY SREED DATE 2006/06/06
CHECKED BY JBINGHAM DATE 2006/06/06
APPROVED BY JBINGHAM DATE 2009/11/23

TITLE
SALES DRAWING FOR
VERTICAL GANGED RF
CONNECTOR, LONG TAILS

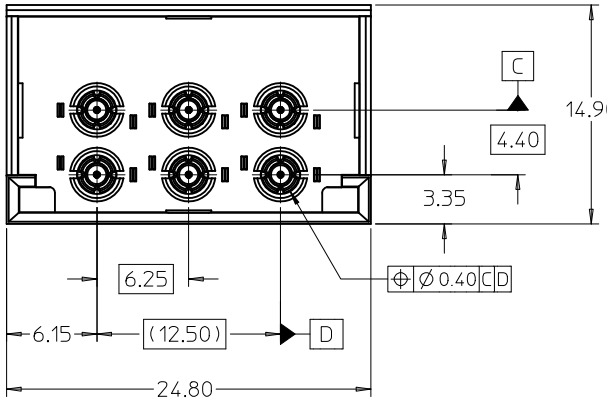
MOLEX INCORPORATED

MATERIAL NO. SEE CHART
DOCUMENT NO. SD-74712-003
SHEET NO. 1 OF 5

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

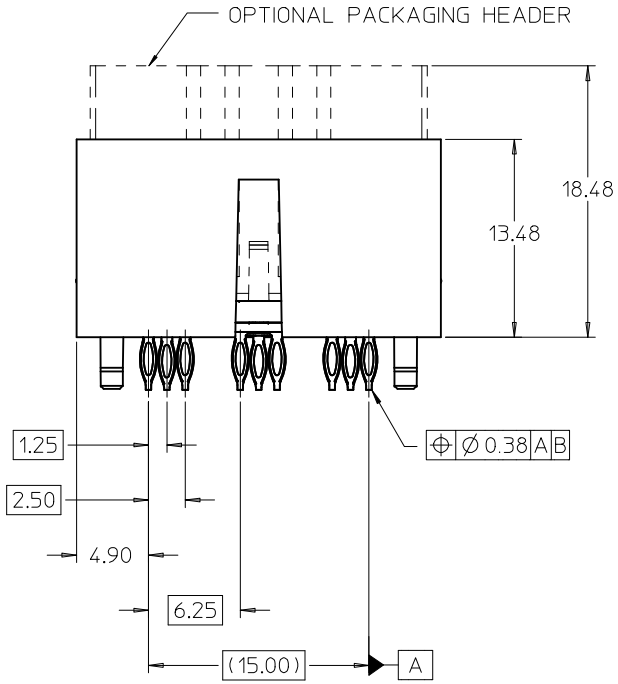
C

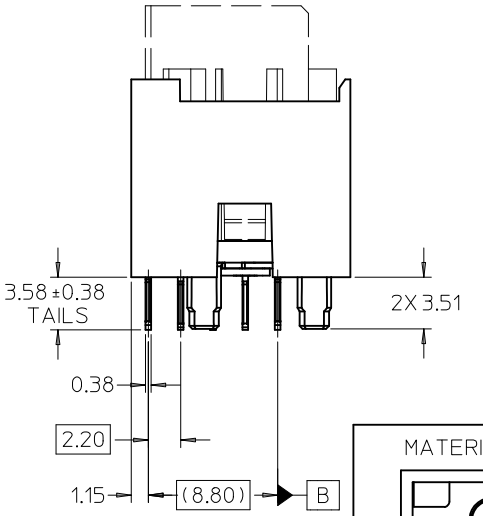
tb_frame_C-B1
rev. B1 2000/08/01

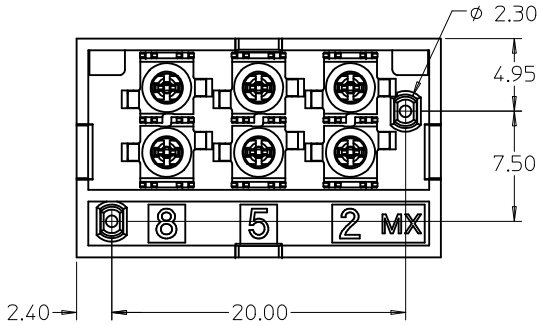



## 6 POSITION CONNECTOR

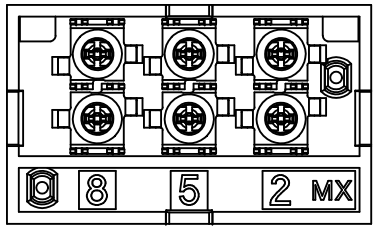
| MATERIAL NUMBER | POSITION OF LOADED TERMINAL(S) | OPTIONAL PACKAGING HEADER | PACKAGING SPECIFICATION |
|---|---|---|---|
| 74712-1001 | 2, 5, 8 | YES | PK-74712-101 |
| 74712-1002 | 2, 8 | YES | |
| 74712-1003 | 2 | YES | |
| 74712-1004 | 8 | YES | |
| 74712-1007 | 5 | YES | |
| 74712-1005 | 2, 5, 8 | YES | PK-74712-102 |
| 74712-1006 | 2 | YES | |



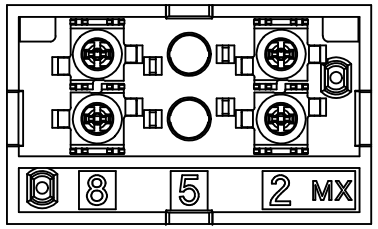




MATERIAL NUMBER: 74712-1001/-1005



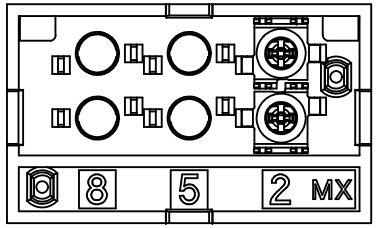

TERMINAL POSITIONS LOADED: 2, 5, 8

MATERIAL NUMBER: 74712-1002



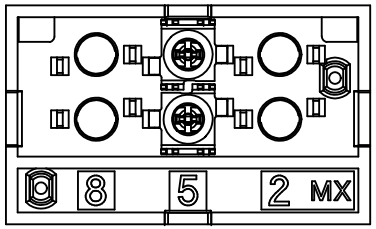

TERMINAL POSITIONS LOADED: 2, 8

MATERIAL NUMBER: 74712-1003/-1006



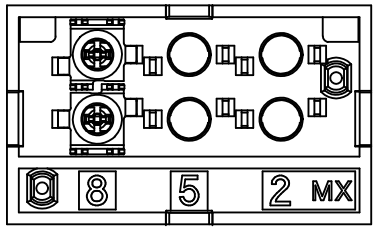

TERMINAL POSITION LOADED: 2

MATERIAL NUMBER: 74712-1007




TERMINAL POSITION LOADED: 5

MATERIAL NUMBER: 74712-1004




TERMINAL POSITION LOADED: 8

SEE SHEET 1
EC NO: UCP2010-1255 2009/11/17
DRWN: MENDOZA 2009/11/23
CHKD:
APPR: JBINGHAM 2009/11/23
DESCRIPTION
REV
E1

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± 0.13 | ± --- |
| 1 PLACE | ± 0.25 | ± --- |
| ANGULAR ± 2 ° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 4:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

| | | DATE |
|---|---|---|
| DRAWN BY | SREED | 2006/06/06 |
| CHECKED BY | JBINGHAM | 2006/06/06 |
| APPROVED BY | JBINGHAM | 2009/11/23 |

TITLE: SALES DRAWING FOR VERTICAL GANGED RF CONNECTOR, LONG TAILS

MOLEX INCORPORATED

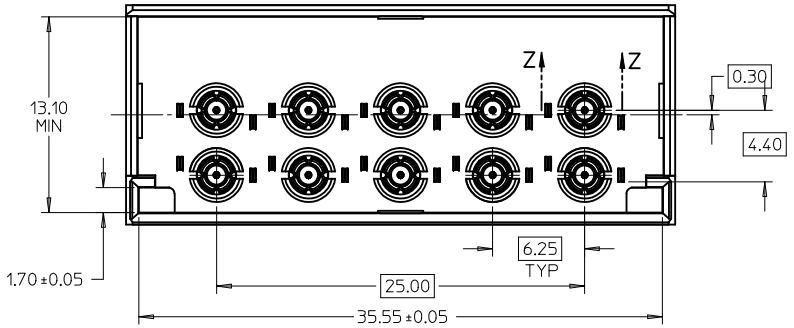
MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-74712-003
SHEET NO.: 2 OF 5
SIZE: C

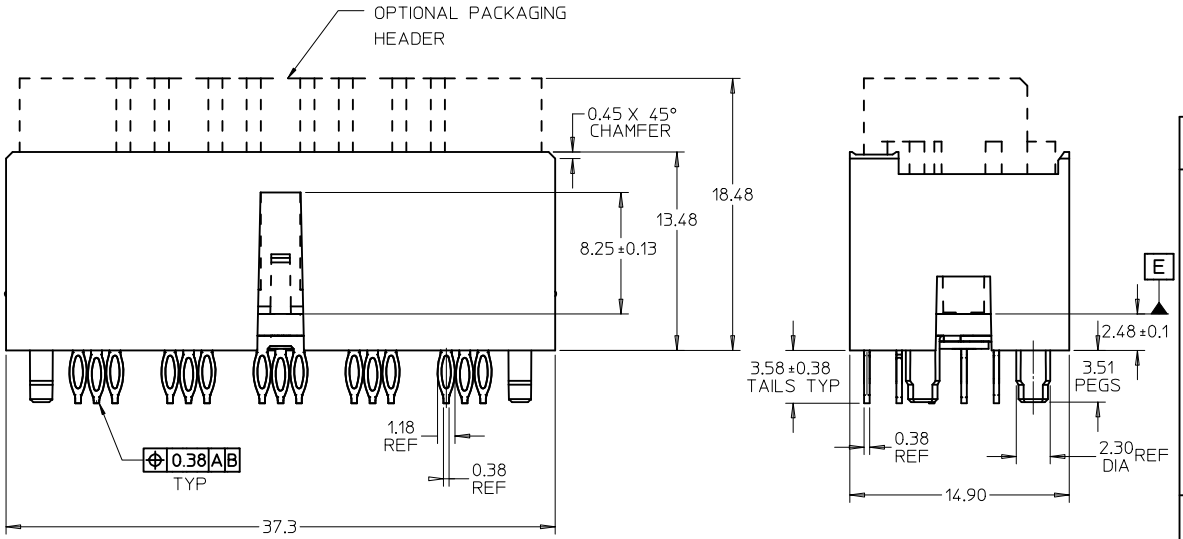
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

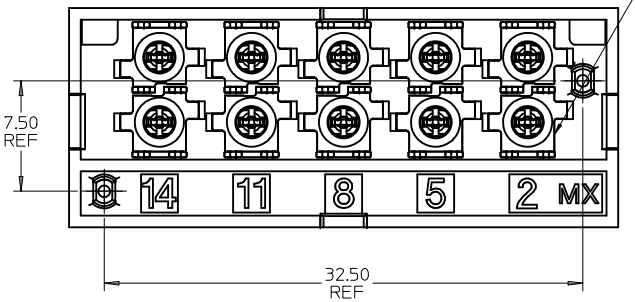
74712

| MATERIAL NO. | TERMINAL LOADING BY POSITION | PACKAGING |
|---|---|---|
| 74712-3001 | 2, 5, 8, 11, 14 | PK-74712-210 |
| 74712-3002 | 8, 11, 14 | PK-74712-210 |

NOTE: REFER TO SHEET 1 FOR ALL DIMENSIONS, SECTION VIEW AND NOTES NOT SHOWN.

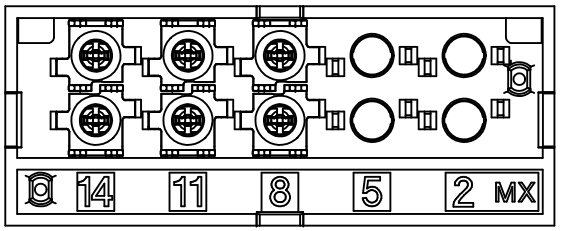


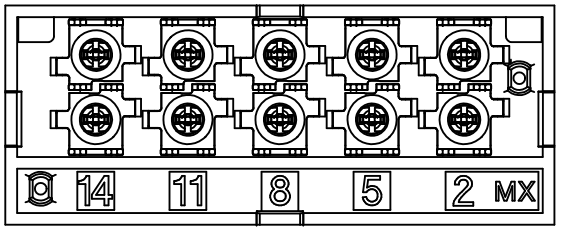




10 POSITION CONNECTOR SHOWN

CONTACT LOADING OPTIONS FOR 10 POSITION CONNECTORS




MAT'L NO. 747123002
POSITIONS 8,11,14 LOADED




MAT'L NO. 747123001
POSITIONS 2,5,8,11,14 LOADED

SEE SHEET 1
EC NO: UCP2010-1255
DRWN: JMENDOZA 2009/11/17
CH'KD:
APPR: JBINGHAM 2009/11/23
DESCRIPTION
REV
E1

QUALITY SYMBOLS
▼ - 0
▽ - 0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± 0.13 | ± --- |
| 1 PLACE | ± 0.25 | ± --- |
| ANGULAR ± 2 ° | | |

DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

SCALE 4:1
DESIGN UNITS METRIC
THIRD ANGLE PROJECTION
REVISE ON CAD ONLY
DIMENSION STYLE MM ONLY
DRAWN BY SREED DATE 2006/06/06
CHECKED BY JBINGHAM DATE 2006/06/06
APPROVED BY JBINGHAM DATE 2009/11/23

TITLE
SALES DRAWING FOR VERTICAL GANGED RF CONNECTOR, LONG TAILS

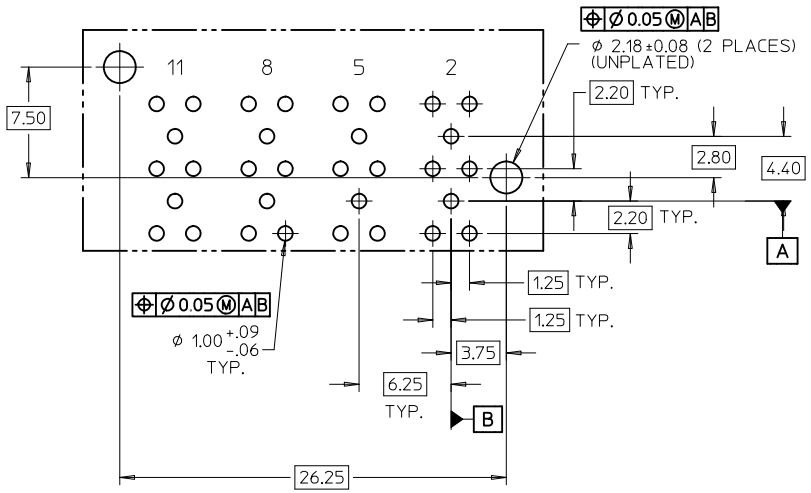
MOLEX INCORPORATED

MATERIAL NO. SEE CHART
DOCUMENT NO. SD-74712-003
SHEET NO. 3 OF 5

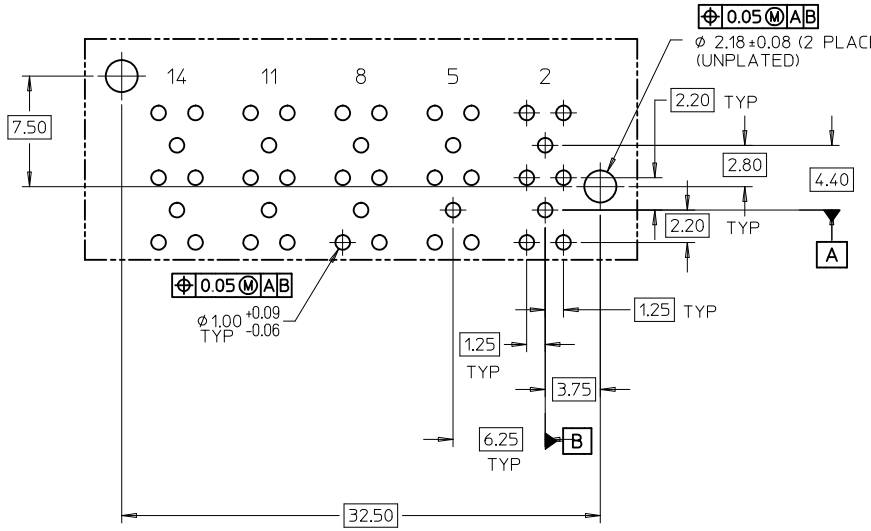
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

C

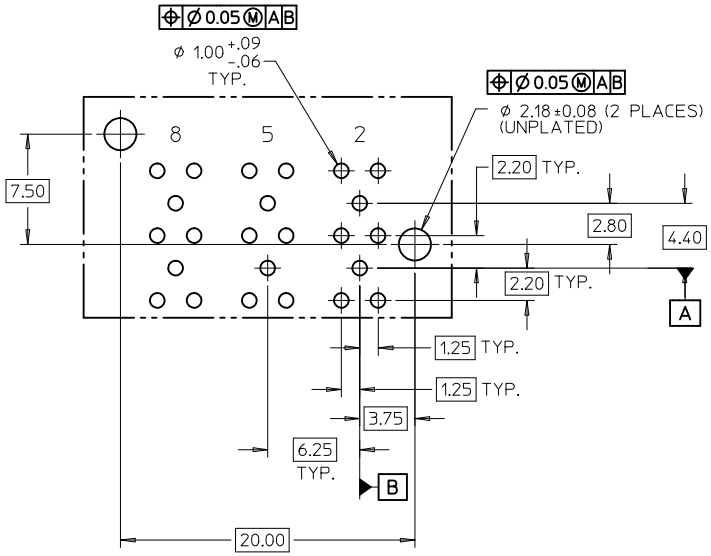
tb_frame_C-B1
rev. B1 2000/08/01




RECOMMENDED PCB LAYOUT
FOR THE 8 POSITION CONNECTOR
COMPONENT SIDE
MAX. BOARD THICKNESS: 4.50




RECOMMENDED PCB LAYOUT
FOR THE 10 POSITION CONNECTOR
COMPONENT SIDE
MAX. BOARD THICKNESS: 4.50




RECOMMENDED PCB LAYOUT
FOR THE 6 POSITION CONNECTOR
COMPONENT SIDE
MAX. BOARD THICKNESS: 4.50

NOTE: DEPENDING ON CONNECTOR PART NUMBER, ALL HOLES MAY NOT BE REQUIRED. REFER TO SHEETS 1-3 FOR LOADED TERMINAL POSITIONS. REFER TO TERMINAL POSITIONS SPECIFIED ON EACH PCB LAYOUT TO DETERMINE WHICH HOLES ARE NEEDED.

SEE SHEET 1
EC NO: UCP2010-1255
DRWN: JMENDOZA 2009/11/17
CH'KD: 2009/11/23
APPR: JBINGHAM 2009/11/23
DESCRIPTION
REV
E1

QUALITY SYMBOLS
▼ - 0
▽ C - 0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± 0.13 | ± --- |
| 1 PLACE | ± 0.25 | ± --- |
| ANGULAR ± 2 ° | | |

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

SCALE 4:1
DESIGN UNITS METRIC
THIRD ANGLE PROJECTION
REVISE ON CAD ONLY
DIMENSION STYLE MM ONLY
DRAWN BY SREED DATE 2006/06/06
CHECKED BY JBINGHAM DATE 2006/06/06
APPROVED BY JBINGHAM DATE 2009/11/23

TITLE
SALES DRAWING FOR
VERTICAL GANGED RF
CONNECTOR, LONG TAILS

MOLEX INCORPORATED

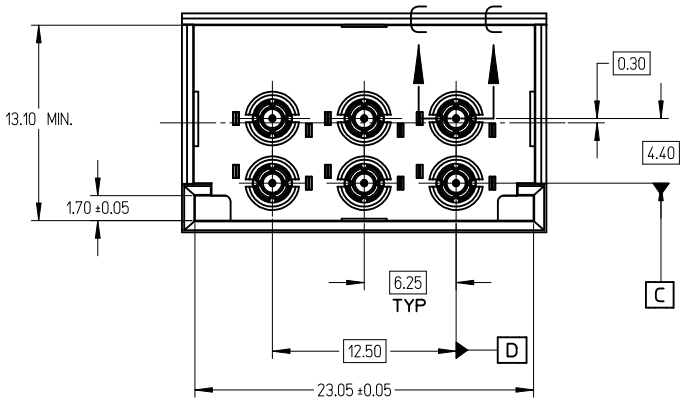
MATERIAL NO. SEE CHARTS
DOCUMENT NO. SD-74712-003
SHEET NO. 4 OF 5

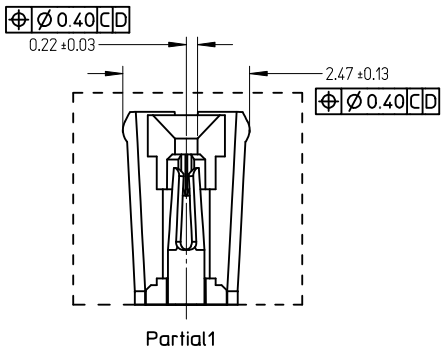
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

C

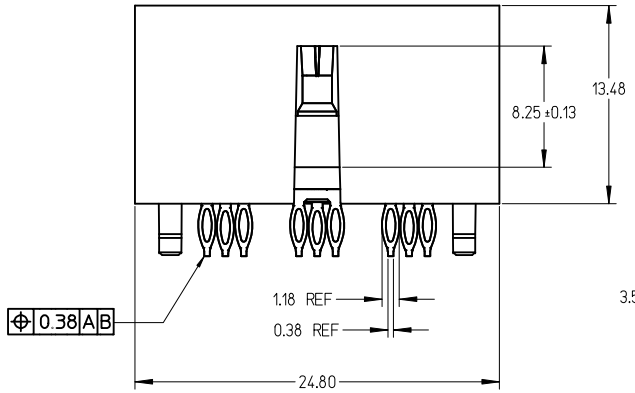
# 6 POSITION CONNECTOR

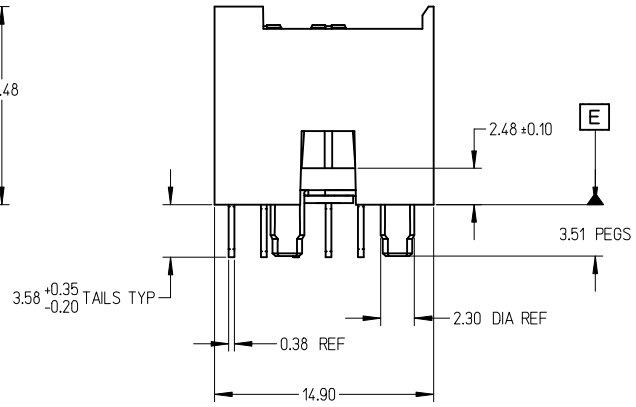
| MATERIAL NUMBER | POSITION OF LOADED TERMINAL(S) | OPTIONAL PACKAGING HEADER | PACKAGING SPECIFICATION |
|---|---|---|---|
| 74712-1008 | 2, 8 | NO | PK-74712-101 |
| 74712-1009 | 5 | NO | |



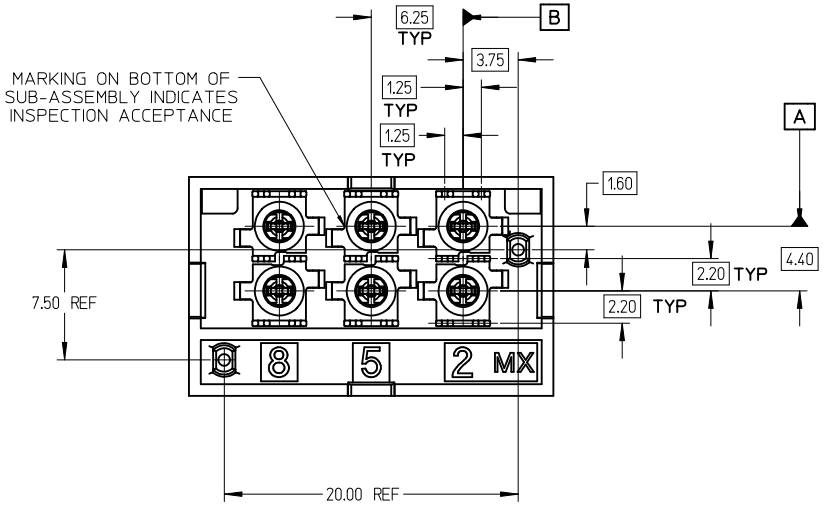




Partial1
SCALE 14:1



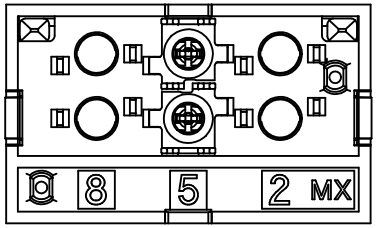

6 POS. CONNECTOR SHOWN




NOTES:

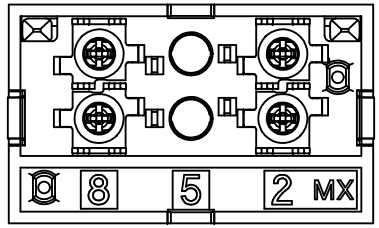
1. MATERIAL:
   HOUSING: GLASS FILLED THERMO PLASTIC, 94V-0
   INSULATOR: GLASS FILLED THERMO PLASTIC, 94V-0
   TERMINALS AND GROUND: TIN BRASS
   OUTER GROUND CONTACT: PHOSPHOR BRONZE
2. PLATING:
   TERMINALS:
   SELECTIVE 0.76 MICRONS MIN. GOLD IN CONTACT AREA
   SELECTIVE 0.88 MICRONS MIN. TIN BOTH OVER
   1.27 MICRONS MIN. NICKEL UNDERPLATE
   GROUNDS:
   0.88 MICRONS MIN. TIN OVERALL OVER
   1.27 MICRONS MIN. NICKEL UNDERPLATE
   OUTER GROUND CONTACT:
   0.76 MICRONS MIN. GOLD OVERALL OVER
   1.27 MICRONS MIN. NICKEL UNDERPLATE
3. REFER TO PRODUCT SPEC.: PS-74854-001 FOR ELECTRICAL, MECHANICAL AND ENVIRONMENTAL REQUIREMENTS.
4. REFER TO PACKAGING SPEC STATED IN CHARTS FOR DETAILS OF THE PACKAGING REQUIREMENTS.
5. DATE CODE MARKING TO BE LOCATED ANYWHERE ON PLASTIC HOUSING. FIRST TWO DIGITS = WEEK NUMBER. LAST TWO DIGITS = YEAR.
6. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF MOLEX COSMETIC SPECIFICATION PS-45499-002.

MATERIAL NUMBER: 74712-1009




TERMINAL POSITION LOADED: 5

MATERIAL NUMBER: 74712-1008




TERMINAL POSITIONS LOADED: 2, 8

SEE SHEET 1
EC NO: UCP2010-1255 2009/11/17
DRWN: JMENDOZA 2009/11/23
CH'KD: 2009/11/23
APPR: JBINGHAM
DESCRIPTION
REV
E1

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± 0.13 | ± --- |
| 1 PLACE | ± 0.25 | ± --- |
| ANGULAR ± 2 ° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 4:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: SREED DATE: 2006/06/06
CHECKED BY: JBINGHAM DATE: 2006/06/06
APPROVED BY: JBINGHAM DATE: 2009/11/23

TITLE: SALES DRAWING FOR VERTICAL GANGED RF CONNECTOR, LONG TAILS

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHARTS
DOCUMENT NO.: SD-74712-003
SHEET NO.: 5 OF 5
SIZE: C

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