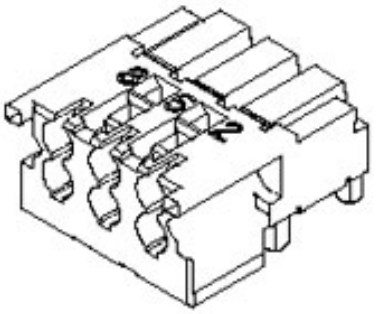
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This document was generated on 05/15/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0746421003
Status: Active
Overview: ganged_rf
Description: 6.25mm (.246") Pitch Ganged RF Receptacle, Right Angle, 2 Circuits

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



Series image - Reference only

Agency Certification

CSA	LR19980
UL	E107635

General

Product Family	Backplane Connectors
Series	74642
Application	Daughtercard
Comments	Port Number 2 Loaded
Component Type	PCB Receptacle
Overview	ganged_rf
Product Name	Ganged RF
Style	N/A

Physical

Circuits (Loaded)	2
Circuits (maximum)	6
Color - Resin	Natural
Durability (mating cycles max)	500
First Mate / Last Break	No
Flammability	94V-0
Guide to Mating Part	No
Keying to Mating Part	None
Material - Metal	High Performance Alloy (HPA)
Material - Resin	High Temperature Thermoplastic
Number of Columns	3
Number of Pairs	N/A
Number of Rows	2
Orientation	Right Angle
PC Tail Length (in)	0.093 In
PC Tail Length (mm)	2.36 mm
PCB Locator	Yes
PCB Retention	None
PCB Thickness Recommended (in)	0.125 In
PCB Thickness Recommended (mm)	3.20 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.246 In
Pitch - Mating Interface (mm)	6.25 mm
Polarized to PCB	Yes
Stackable	Yes
Surface Mount Compatible (SMC)	Yes
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

EU RoHS
RoHS Compliant by Exemption
REACH SVHC
Not Reviewed
Halogen-Free Status
Not Halogen-Free

China RoHS
50
Pb

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
74642Series

Mates With
74712 Ganged RF Header

Shielded	No
Voltage - Maximum	50V AC

Material Info

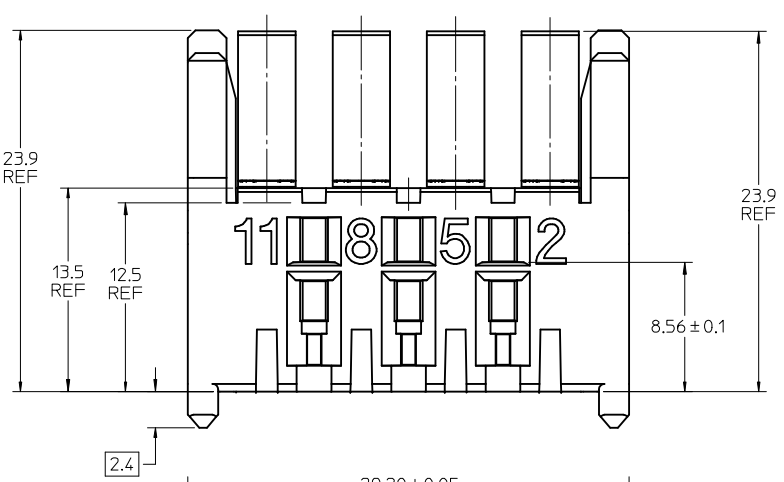
Reference - Drawing Numbers

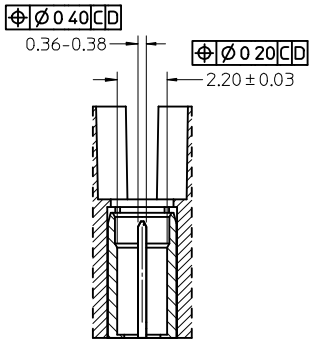
Packaging Specification	PK-74642-001
Product Specification	PS-74854-001
Sales Drawing	SD-74642-001

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

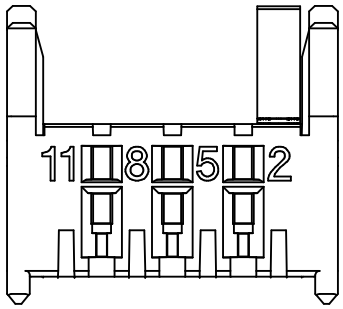
74642

MATERIAL NO.	TERMINAL LOADING BY POSITION
74642-0001	2, 5, 8, 11
74642-0002	2

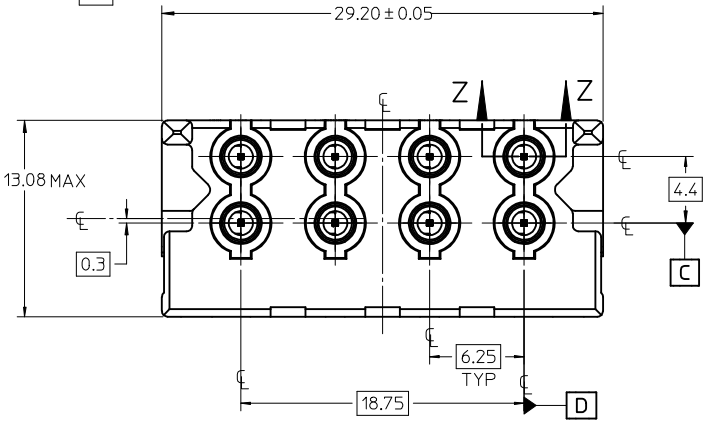


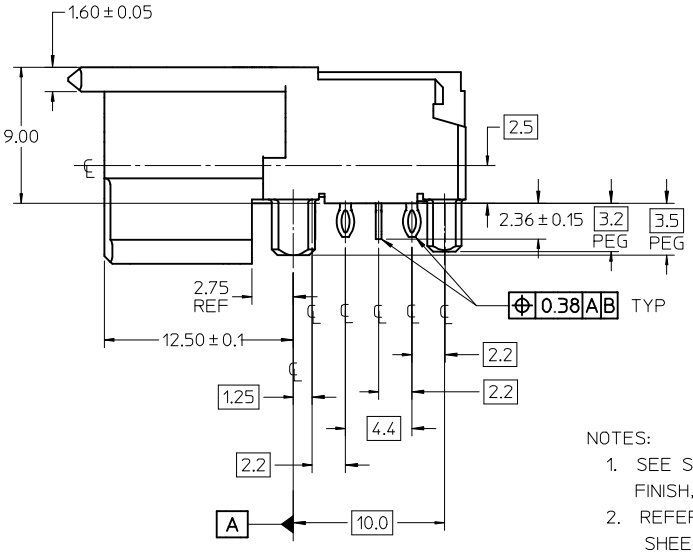


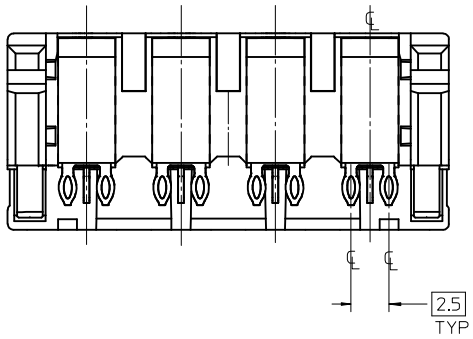
SECTION Z Z
SCALE 6:1

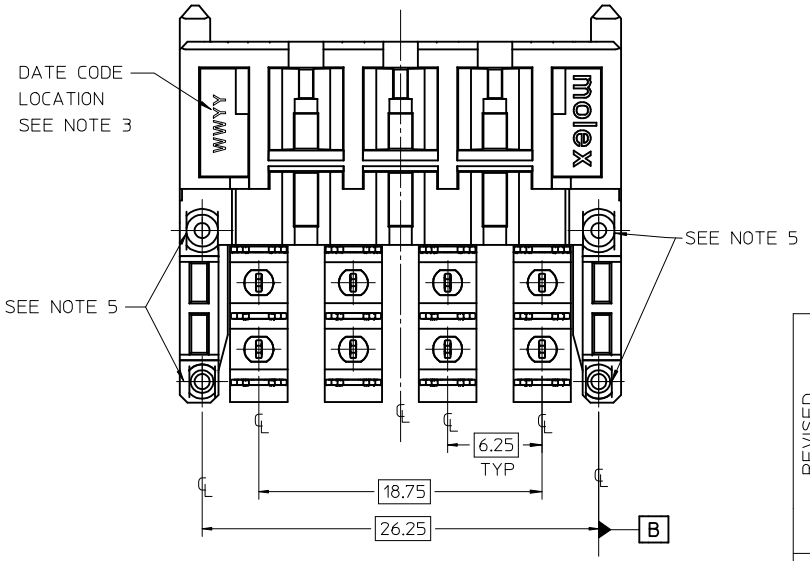


4 TERMINAL BAY ASSEMBLY
POSITION 2 LOADED ONLY
MATERIAL NO. 74642-0002









4 TERMINAL BAY ASSEMBLY
POSITION 2,5,8,11 SHOWN
MATERIAL NO. 74642-0001

NOTES:
1. SEE SHEET 4 FOR ALL NOTES PERTAINING TO MATERIAL, FINISH, PRODUCT SPECIDICATIONS AND PACKAGING.
2. REFER TO SHEET 2 FOR THE 3 TERMINAL BAY ASSEMBLY, SHEET 3 FOR THE 5 TERMINAL BAY ASSEMBLY AND SHEET 4 THEIR RELATED MATERIAL NUMBERS
3. DATE CODE TO BE LASER MARKED ON BOTTOM OF ASSEMBLY IN THE RECESSED POCKET LOCATION SHOWN.

REVISED
EC NO: UCP2009-0995
DRWN: JMENDOZA 2008/10/21
CH'KD: 2008/10/21
APPR: JBINGHAM 2008/10/21
DESCRIPTION
REV
J2

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 J. LONG 01-02-08
CHECKED BY J. LONG 01-02-08
APPROVED BY REGNIER 01-03-20

TITLE
SALES DRAWING
FOR R/A GANGED RF
CONNECTOR ASSEMBLIES

MOLEX INCORPORATED

MATERIAL NO. SEE CHART | DOCUMENT NO. SD-74642-001 | SHEET NO. 1 OF 4

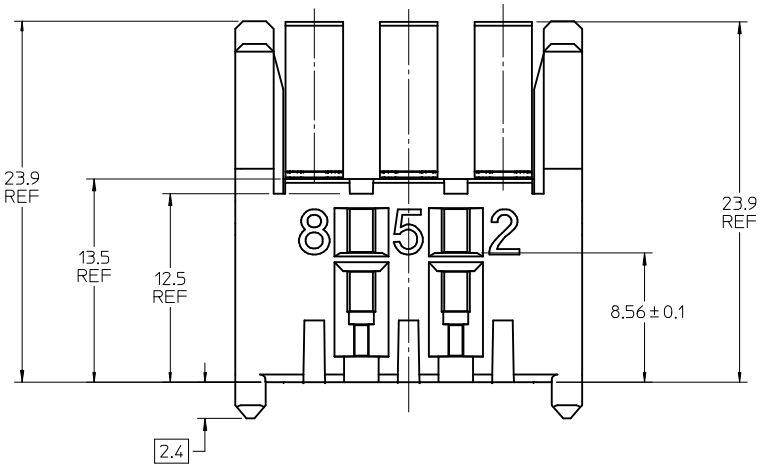
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

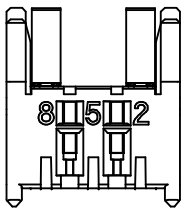
C

tb_frame_C-B1
rev. B1 2000/08/01

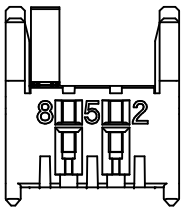
74642

MATERIAL NO.	TERMINAL LOADING BY POSITION
74642-1001	2, 5, 8
74642-1002	2, 8
74642-1003	2
74642-1004	8
74642-1005	5

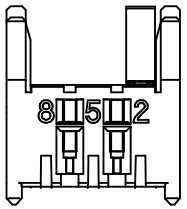




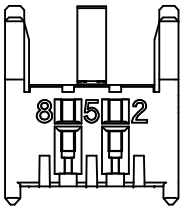
3 TERMINAL BAY ASSEMBLY
POSITIONS 2 & 8 LOADED
MATERIAL NO. 74642-1002



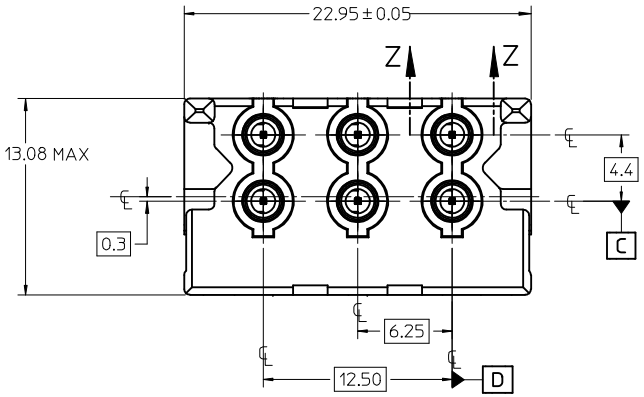
3 TERMINAL BAY ASSEMBLY
POSITION 8 LOADED
MATERIAL NO. 74642-1004

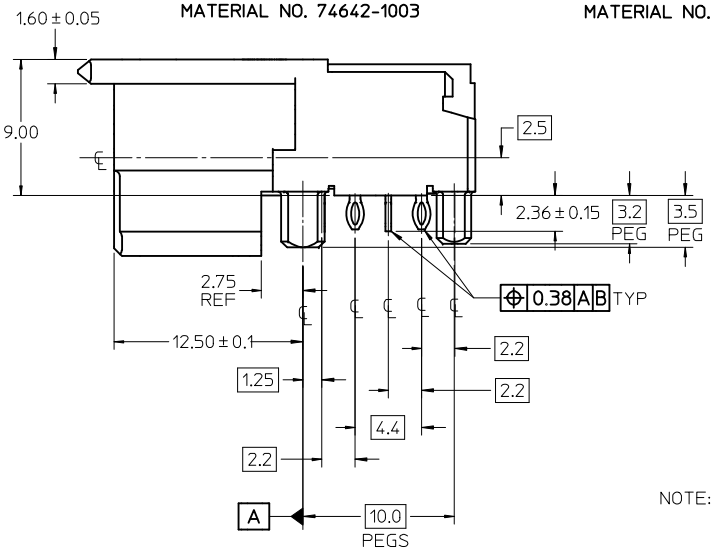


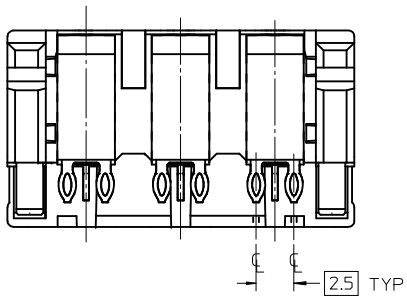
3 TERMINAL BAY ASSEMBLY
POSITION 2 LOADED
MATERIAL NO. 74642-1003

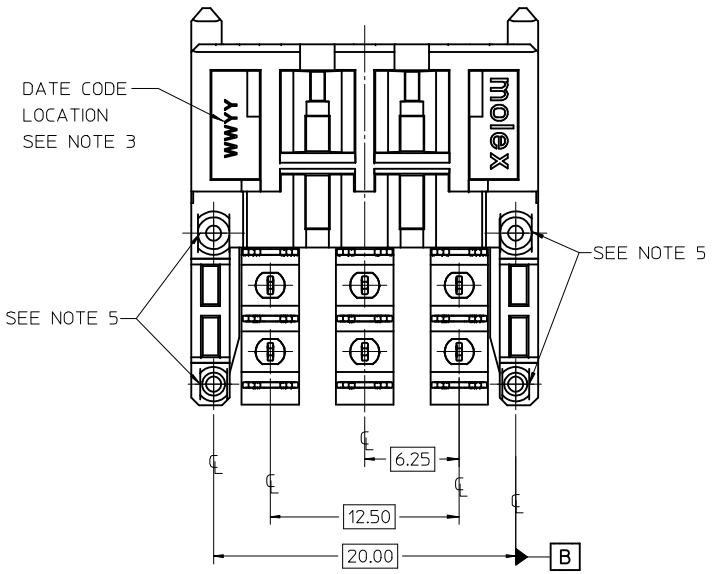


3 TERMINAL BAY ASSEMBLY
POSITION 5 LOADED
MATERIAL NO. 74642-1005









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

3 TERMINAL BAY ASSEMBLY
POSTION 2,5,8 SHOWN
MATERIAL NO. 74642-1001

SEE SHEET 1
EC NO: UCP2009-0995
DRWN: JMENDOZA 2008/10/21
CH'KD:
APPR: JBINGHAM 2008/10/21
DESCRIPTION
REV
J2

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

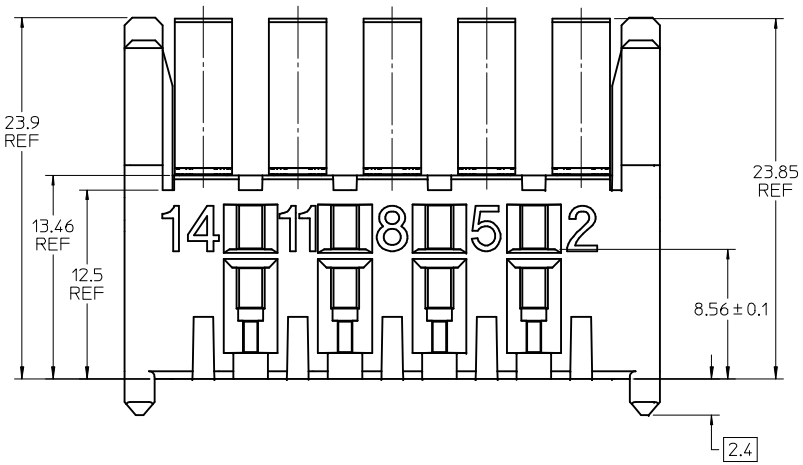
TITLE
SALES DRAWING
FOR R/A GANGED RF
CONNECTOR ASSEMBLIES

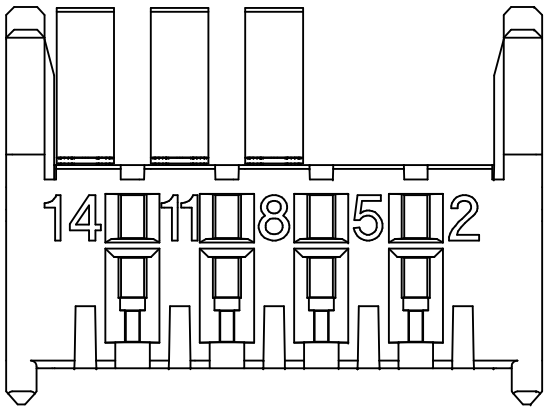
DRAWN BY J. LONG DATE 01-02-08
CHECKED BY J. LONG DATE 01-02-08
APPROVED BY REGNIER DATE 01-03-20
MOLEX INCORPORATED
MATERIAL NO. SEE CHART
DOCUMENT NO. SD-74642-001
SHEET NO. 2 OF 4

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

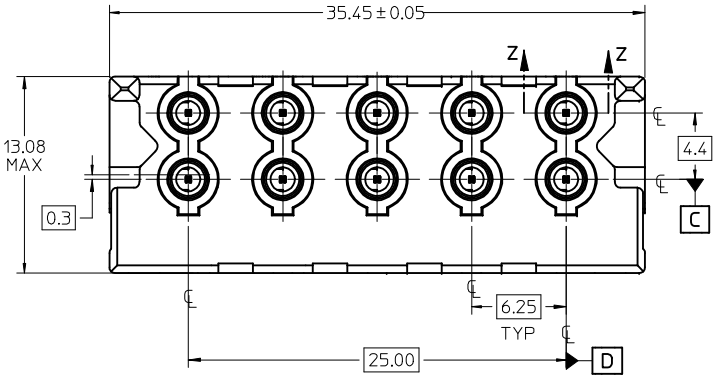
74642

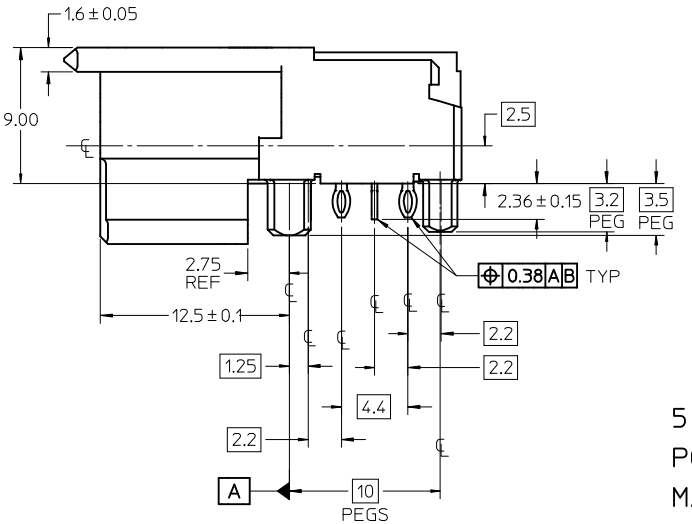
MATERIAL NO.	TERMINAL LOADING BY POSITION
74642-2001	2, 5, 8, 11, 14
74642-2002	8, 11, 14

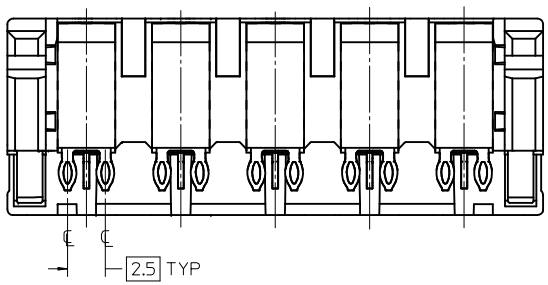


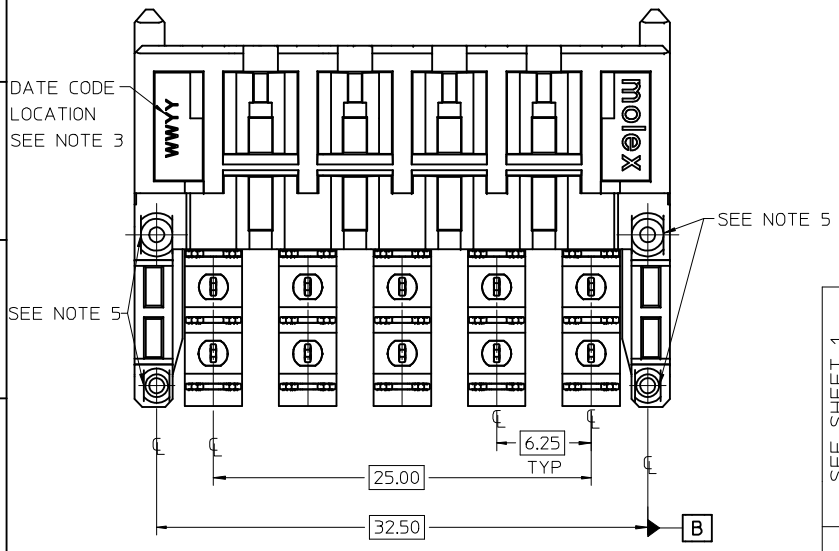


5 TERMINAL BAY ASSEMBLY
POSITION 8.11,14 SHOWN
MATERIAL NO. 74642-2002









5 TERMINAL BAY ASSEMBLY
POSITION 2.5.8.11,14 SHOWN
MATERIAL NO. 74642-2001

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

SEE SHEET 1
EC NO: UCP2009-0995
DRWN: JMENDOZA 2008/10/21
CH'KD: 2008/10/21
APPR: JBINGHAM 2008/10/21
DESCRIPTION
J2
REV

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 °		

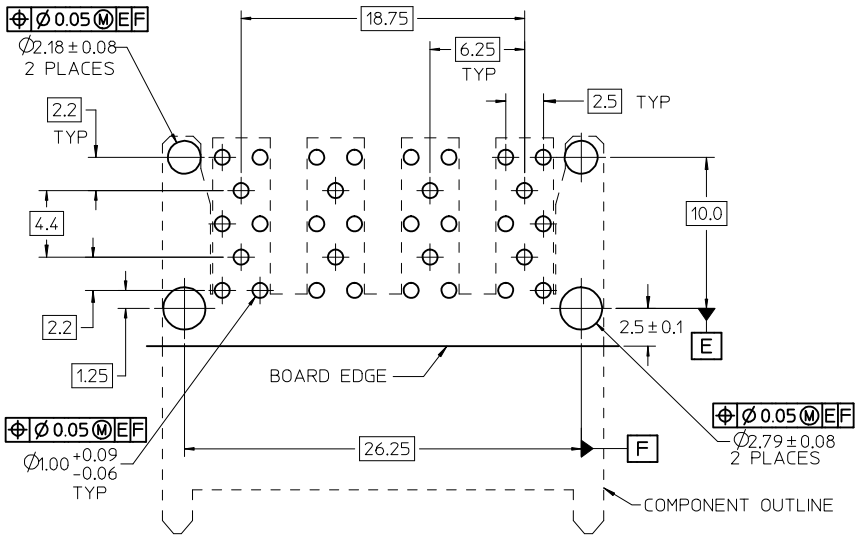
DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

SCALE 4:1 | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION | REVISE ON CAD ONLY
DIMENSION STYLE MM ONLY
DRAWN BY J. LONG 01-02-08
CHECKED BY J. LONG 01-02-08
APPROVED BY REGNIER 01-03-20
TITLE: SALES DRAWING FOR R/A GANGED RF CONNECTOR ASSEMBLIES
MOLEX INCORPORATED
MATERIAL NO. SEE CHART
DOCUMENT NO. SD-74642-001
SHEET NO. 3 OF 4

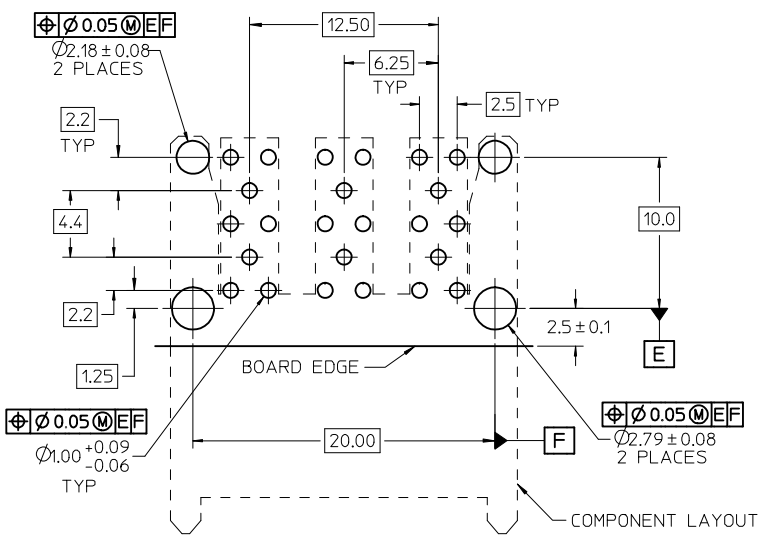
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

C

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rev. B1 2000/08/01



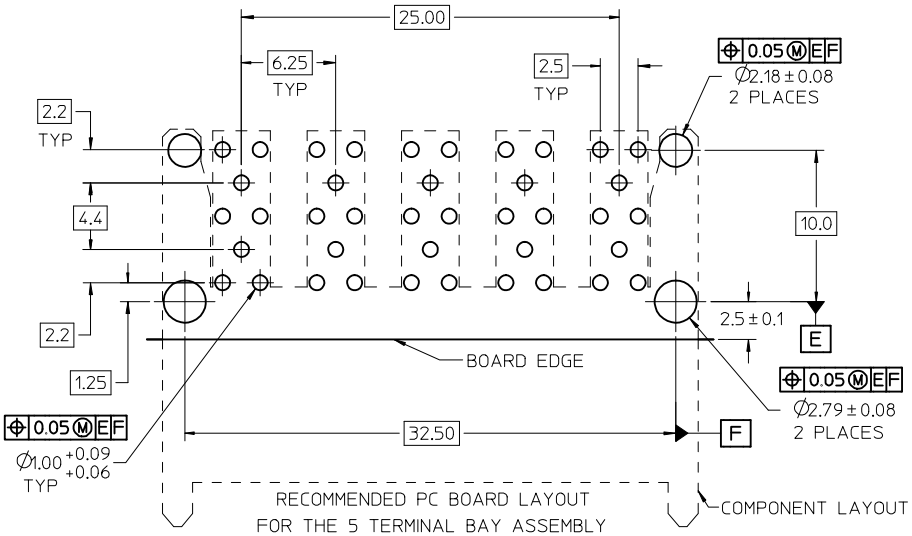
RECOMMENDED PC BOARD LAYOUT
FOR THE 4 TERMINAL BAY ASSEMBLY
COMPONENT SIDE OF BOARD
MINIMUM BOARD THICKNESS IS 2.36MM



RECOMMENDED PC BOARD LAYOUT
FOR THE 3 TERMINAL BAY ASSEMBLY
COMPONENT SIDE OF BOARD
MINIMUM BOARD THICKNESS IS 2.36MM

NOTES:

1. MATERIAL:
   - R/A HSG: GLASS FILLED LIQUID CRYSTAL POLYMER, COLOR: NATURAL
   - OVERMOLDED TERMINAL ASSEMBLY: GLASS FILLED HIGH TEMP PLASTIC
   - INSERT MOLDED TERMINAL: GLASS FILLED LIQUID CRYSTAL POLYMER, COLOR NATURAL
   - (ALL ABOVE HOUSINGS ARE UL 94V-0)
   - SLEEVE: BRASS
   - TERMINALS AND GROUNDS: TIN BRASS
   - DIE-CAST SHELLS: ZINC
2. FINISH:
   - TERMINALS:
     - SELECTIVE 0.76 MICRONS MIN.GOLD (Au) IN CONTACT AREA
     - SELECTIVE 0.88 MICRONS MIN.TIN (Sn) ALLOY IN THE PC TAIL AREA
     - BOTH OVER 1.27 MICRONS MIN. NICKEL (Ni) UNDERPLATE.
   - GROUNDS:
     - 0.88 MICRONS MIN. TIN (Sn) ALLOY OVERALL
     - OVER 1.27 MICRONS MIN. NICKEL (Ni) UNDERPLATE.
   - DIE-CAST SHIELDS:
     - 3.05 MICRONS MIN.BRIGHT TIN (Sn) ALLOY OVER
     - 1.27 MICRONS MIN. NICKEL (Ni) ALLOY OVER:
     - BOTH OVER 8.13 MICRONS MIN. COPPER (Cu) UNDERPLATE.
3. REFER TO PS-74854-001 PRODUCT SPEC FOR ALL ELECTRICAL, MECHANICAL AND ENVIROMENTAL SPECIFICATIONS.
4. REFER TO PK-74642-001 FOR ALL PACKAGING SPECIFICATIONS.
5. THESE PARTS CONFORM TO MOLEX COSMETIC SPECIFICATION PS-45499-002 CLASS B. EXCEPT ON THE PLASTIC PEGS, CLASS C



RECOMMENDED PC BOARD LAYOUT
FOR THE 5 TERMINAL BAY ASSEMBLY
COMPONENT SIDE OF BOARD
MINIMUM BOARD THICKNESS IS 2.36MM

REV	DESCRIPTION	DRAWN	CH'KD	APPR
J2	ADD NOTE 5 EC NO: UCP2009-0995	JMENDOZA	2008/10/21	JBINGHAM	2008/10/21

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
DIMENSION STYLE	MM ONLY
DRAWN BY	J. LONG
DATE	01-02-08
CHECKED BY	J. LONG
DATE	01-02-08
APPROVED BY	REGNIER
DATE	01-03-20
MATERIAL NO.	SEE CHARTS
DOCUMENT NO.	SD-74642-001
SHEET NO.	4 OF 4

THIRD ANGLE PROJECTION
REVISE ON CAD ONLY

TITLE
SALES DRAWING
FOR R/A GANGED RF
CONNECTOR ASSEMBLIES

MOLEX INCORPORATED

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C