

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0747125003

Status:

Active

Overview:

[ganged_rf](#)

Description:

6.25mm (.246") Pitch Ganged RF Header, Vertical, 6 Circuits

Documents:

[Drawing \(PDF\)](#)

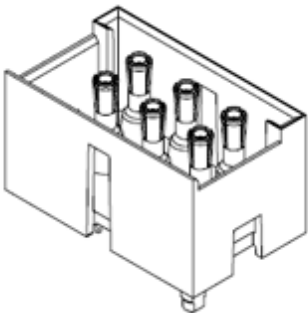
[Packaging Specification \(PDF\)](#)

[Product Specification PS-74854-001 \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

General	
Product Family	Backplane Connectors
Series	74712
Application	Backplane
Comments	Port Numbered 2 Loaded
Component Type	PCB Header
Overview	ganged_rf
Product Name	Ganged RF
Style	N/A
Physical	
Circuits (Loaded)	2
Circuits (maximum)	6
Circuits Detail	2
Color - Resin	Black, 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, Polyester
Number of Columns	N/A
Number of Pairs	N/A
Number of Rows	2
Orientation	Vertical
PC Tail Length (in)	0.088 In
PC Tail Length (mm)	2.24 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)	0.246 In
Pitch - Term. Interface (mm)	6.25 mm
Polarized to PCB	Yes
Stackable	No
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
Real Signals (per 25mm)	8
Shield Type	N/A



Series
image - Reference only

EU RoHS

RoHS Compliant by Exemption

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

China RoHS



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

74712Series

Mates With

74642 Ganged RF Receptacle

Shielded
Voltage - Maximum

No
50V AC

Material Info

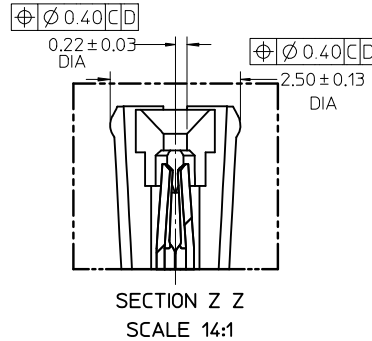
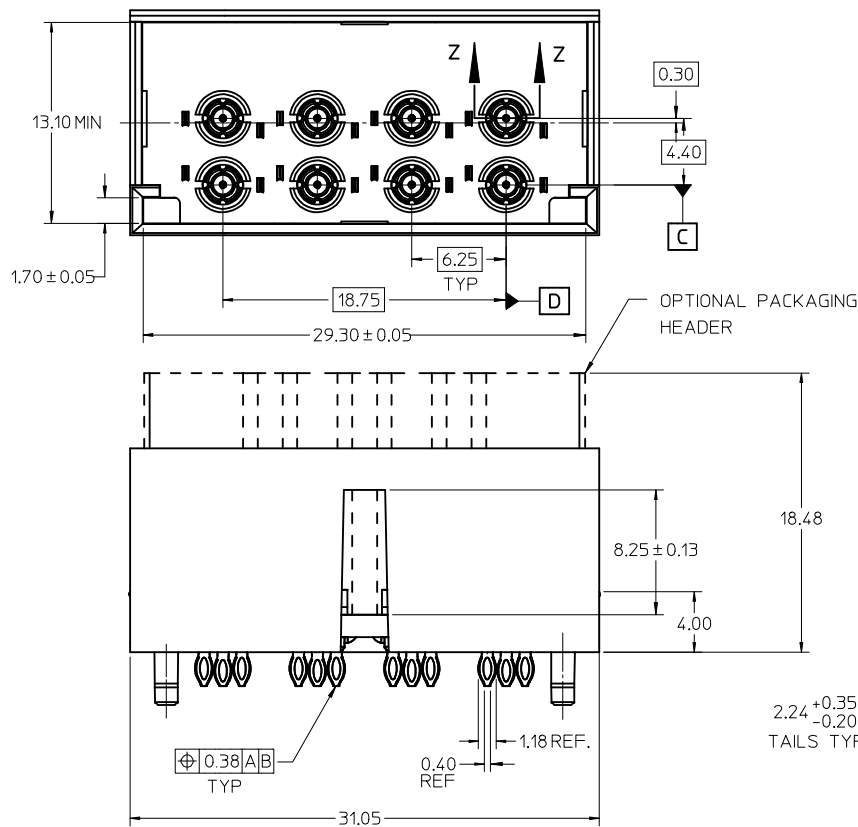
Reference - Drawing Numbers

Packaging Specification
Product Specification
Sales Drawing

PK-74712-101
PS-74854-001
SD-74712-002

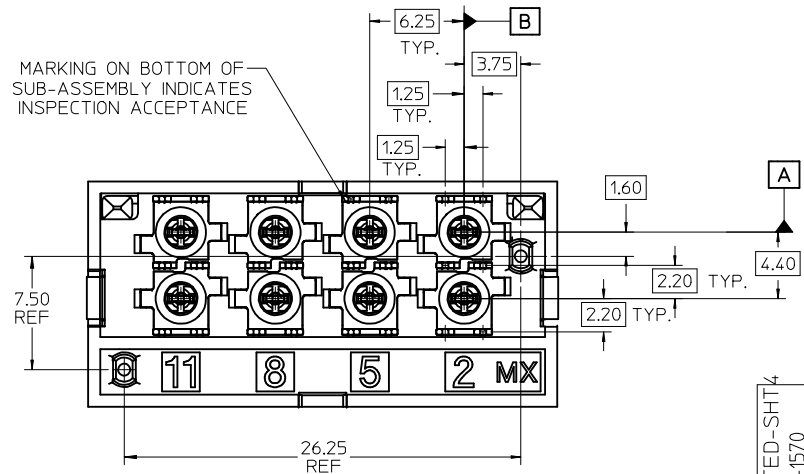
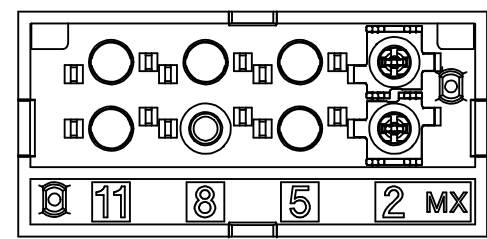
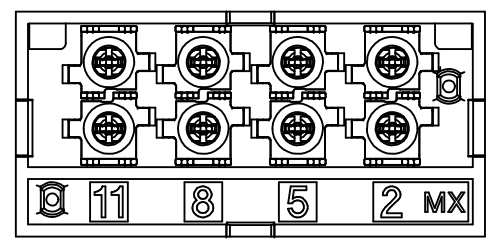
This document was generated on 05/17/2010

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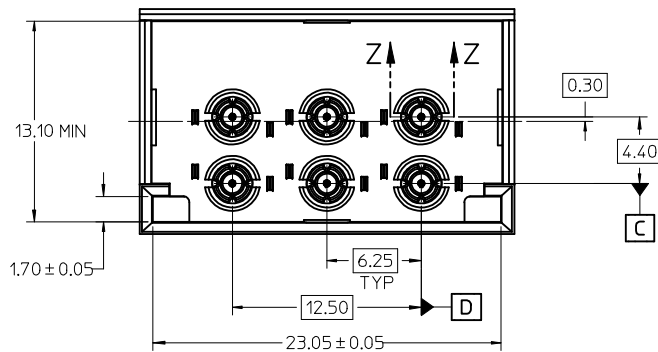
- NOTES:
- MATERIAL:
HOUSING: GLASS FILLED THERMO PLASTIC, 94V-0
INSULATOR: GLASS FILLED THERMO PLASTIC, 94V-0
PACKAGING HEADER: GLASS FILLED THERMO PLASTIC, 94V-0
TERMINALS AND GROUND: TIN BRASS
OUTER GROUND CONTACT: PHOSPHOR BRONZE
 - PLATING:
TERMINALS:
SELECTIVE 0.76 MICRONS MIN. GOLD IN CONTACT 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
 - REFER TO PRODUCT SPEC.: PS-74854-001 FOR ELECTRICAL, MECHANICAL AND ENVIRONMENTAL REQUIREMENTS.
 - REFER TO PACKAGING SPEC STATED IN CHARTS FOR DETAILS OF THE PACKAGING REQUIREMENTS.
 - DATE CODE MARKING TO BE LOCATED ANYWHERE ON PLASTIC HOUSING. FIRST TWO DIGITS = WEEK NUMBER. LAST TWO DIGITS = YEAR.

CONTACT LOADING OPTIONS FOR 8 POS CONNECTORS



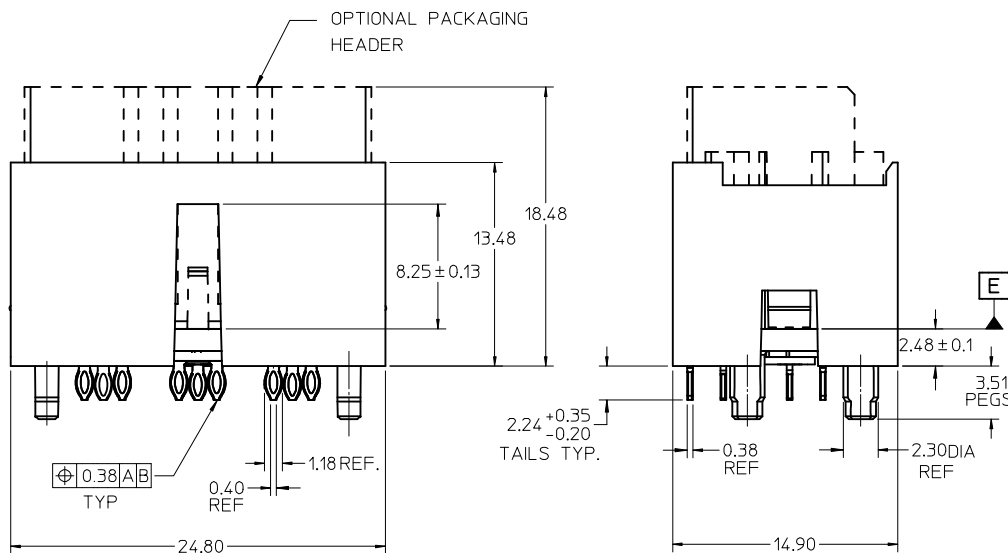
ADDED-UNPLATED-SHT4 EC NO: UCP2009-1570 DRWN: JMENDOZA2009/01/05 CHKD: JBINGHAM 2009/01/05 APPR: JBINGHAM 2009/01/05	QUALITY SYMBOLS ▽-0 ▽C-0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- ANGULAR ± 2 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SCALE 4:1 DESIGN UNITS METRIC DIMENSION STYLE MM ONLY DRAWN BY DATE SREED 2006/06/06 CHECKED BY DATE JBINGHAM 2006/06/06 APPROVED BY DATE SREED 2006/06/06	THIRD ANGLE PROJECTION REVISE ON CAD ONLY SALES DRAWING FOR VERTICAL GANGED RF CONNECTOR, SHORT TAILS MOLEX INCORPORATED MATERIAL NO. SEE CHART DOCUMENT NO. SD-74712-002 SHEET NO. 1 OF 5

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

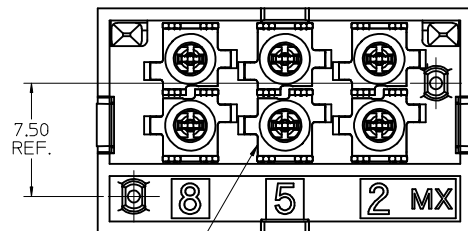


MATERIAL NO.	POSITION OF LOADED TERMINAL(S)	OPTIONAL PACKAGING HEADER	PACKAGING SPEC.
74712-5001	2, 5, 8	YES	PK-74712-101
74712-5002	2, 8	YES	
74712-5003	2	YES	
74712-5004	8	YES	PK-74712-102
74712-5005	2, 5, 8	YES	
74712-5006	2	YES	

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

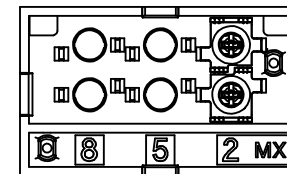


6 POS. CONNECTOR SHOWN

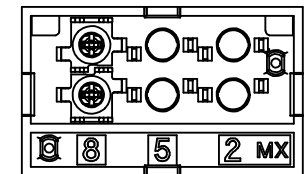


MARKING ON BOTTOM OF SUB-ASSEMBLY INDICATES INSPECTION ACCEPTANCE

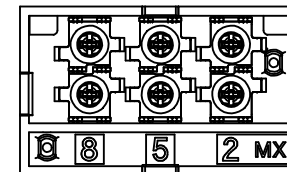
CONTACT LOADING OPTIONS FOR 6 POS. CONNECTOR



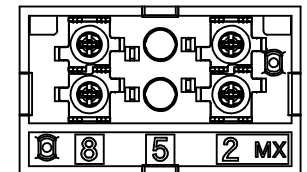
MATL NO.: 74712-5003/-5006
POSITION 2 LOADED ONLY



MATL NO.: 74712-5004
POSITION 8 LOADED ONLY

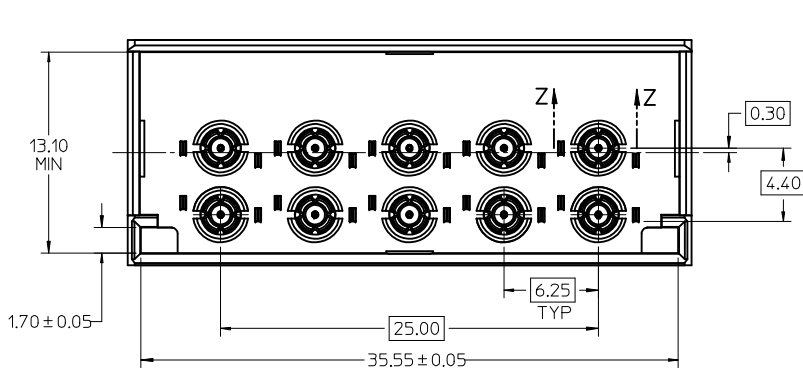


MATL NO.: 74712-5001/-5005
POSITIONS 2, 5 & 8 LOADED



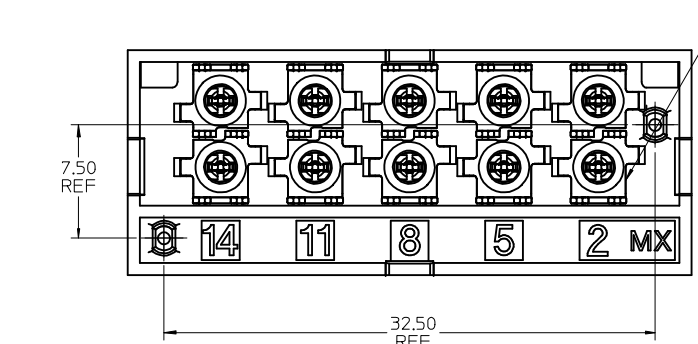
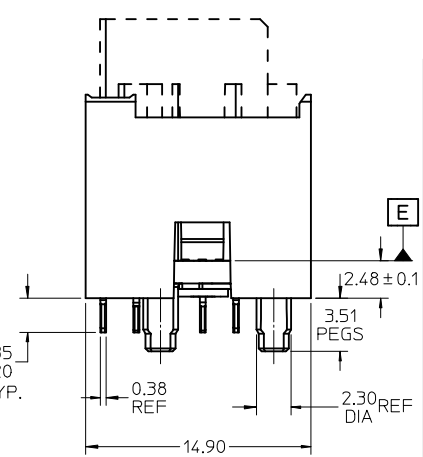
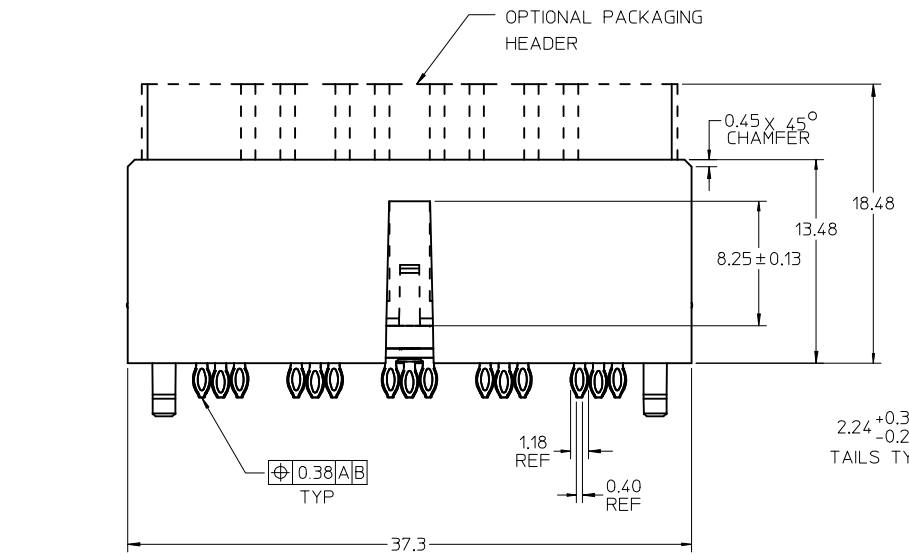
MATL NO.: 74712-5002
POSITIONS 2 & 8 LOADED

SEE SHEET 1 EC NO: UCP2009-1570 DRWN: JEND07A2009/01/05 CHKD: JINGHAM 2009/01/05 APPR: JINGHAM 2009/01/05	QUALITY SYMBOLS	 - 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 4:1	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION		REVISE ON CAD ONLY		
			 - 0	mm	INCH	DIMENSION STYLE MM ONLY		TITLE SALES DRAWING FOR VERTICAL GANGED RF CONNECTOR, SHORT TAILS				
						DRAWN BY	DATE					
				4 PLACES ± --- ± ---		SREED	2006/06/06	MOLEX MOLEX INCORPORATED				
				3 PLACES ± --- ± ---		CHECKED BY	DATE					
	2 PLACES ± --- ± ---		JBINGHAM	2006/06/06								
	DESCRIPTION REV	1 PLACE ± --- ± ---		APPROVED BY		DATE	MATERIAL NO.	DOCUMENT NO.	SHEET NO.			
		ANGULAR ± 2 °		SREED		2006/06/06	SEE CHART	SD-74712-002	2 OF 5			
		DRAFT WHERE APPLICABLE										
		MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								
		C										



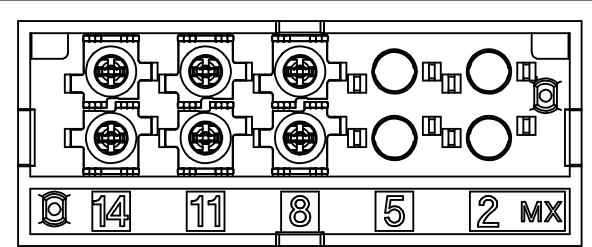
NOTE: REFER TO SHEET 1 FOR ALL DIMENSIONS, SECTION VIEW AND NOTES NOT SHOWN.

MATERIAL NO.	POSITION OF LOADED TERMINAL(S)	PACKAGING SPEC.
74712-6001	2, 5, 8, 11, 14	PK-74712-210
74712-6002	8, 11, 14	

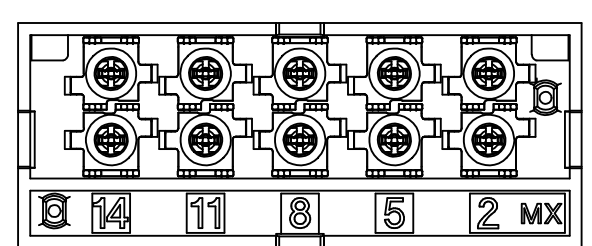


MARKING ON BOTTOM OF SUB-ASSEMBLY INDICATES INSPECTION ACCEPTANCE

CONTACT LOADING OPTIONS FOR 10 POSITION CONNECTORS



MAT'L NO. 74712-6002
POSITIONS 8, 11 & 14 LOADED



MAT'L NO. 74712-6001
POSITIONS 2, 5, 8, 11 & 14 LOADED

10 POSITION CONNECTOR SHOWN

SEE SHEET 1
EC NO: UCP2009-1570
DRWN: MENDOZA2009/01/05
CHKD: JINGHAM 2009/01/05
APPR: JINGHAM 2009/01/05

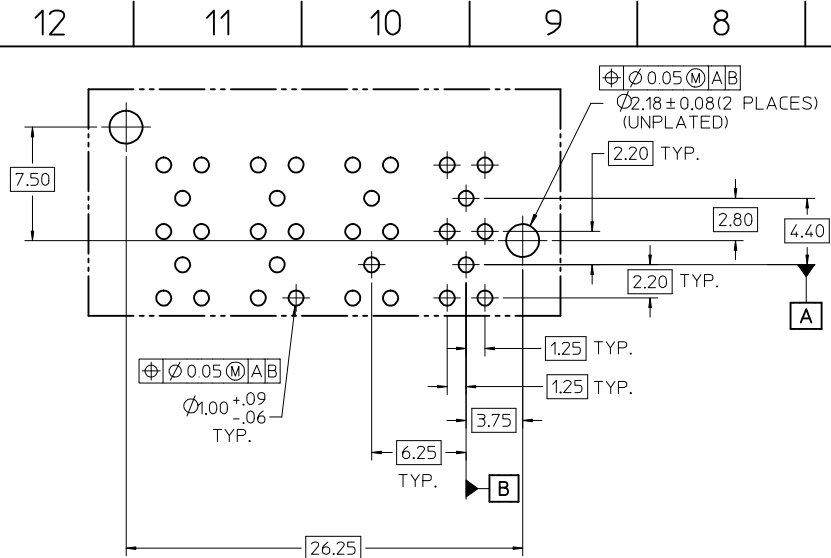
QUALITY SYMBOLS
▽ 0
▽ 0

DESCRIPTION
REV

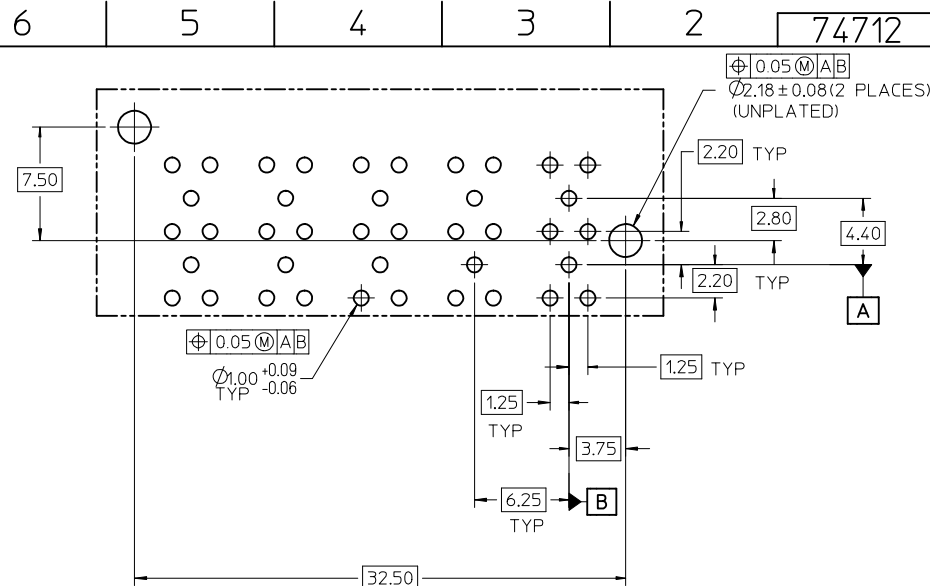
GENERAL TOLERANCES (UNLESS SPECIFIED)
mm INCH
4 PLACES ± --- ± ---
3 PLACES ± --- ± ---
2 PLACES ± --- ± ---
1 PLACE ± --- ± ---
ANGULAR ± 2 °
DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

SCALE 4:1
DESIGN UNITS METRIC
DIMENSION STYLE MM ONLY
DRAWN BY DATE
SREED 2006/06/06
CHECKED BY DATE
JBINGHAM 2006/06/06
APPROVED BY DATE
SREED 2006/06/06
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

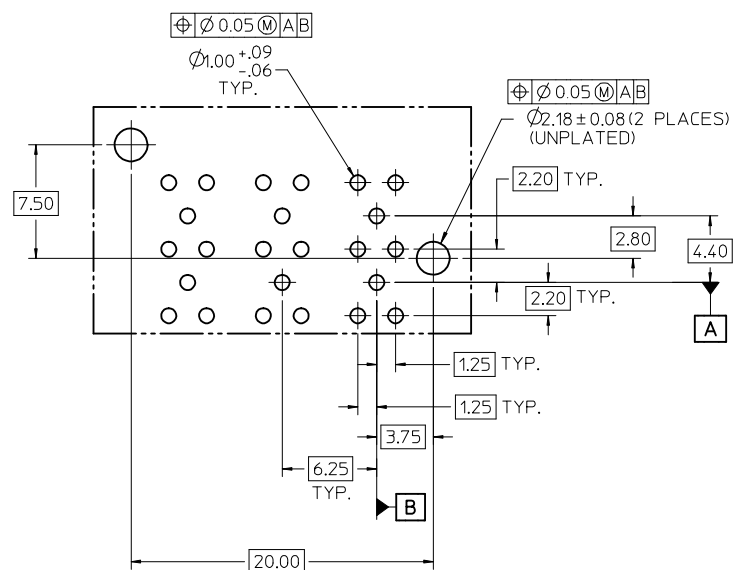
THIRD ANGLE PROJECTION
REVISE ON CAD ONLY
TITLE
SALES DRAWING FOR VERTICAL GANGED RF CONNECTOR, SHORT TAILS
molex MOLEX INCORPORATED
MATERIAL NO. SEE CHART
DOCUMENT NO. SD-74712-002
SHEET NO. 3 OF 5



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



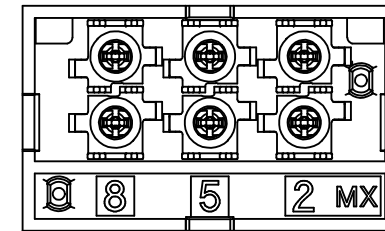
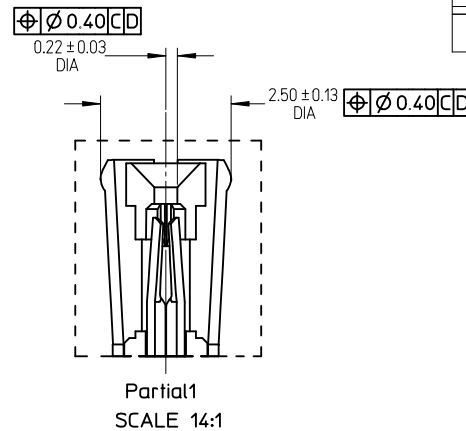
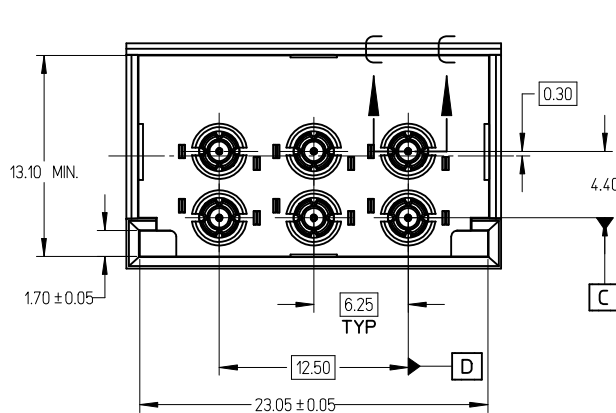
RECOMMENDED PCB LAYOUT
FOR THE 10 POSITION CONNECTOR
COMPONENT SIDE
MAX. BOARD THICKNESS: 4.50



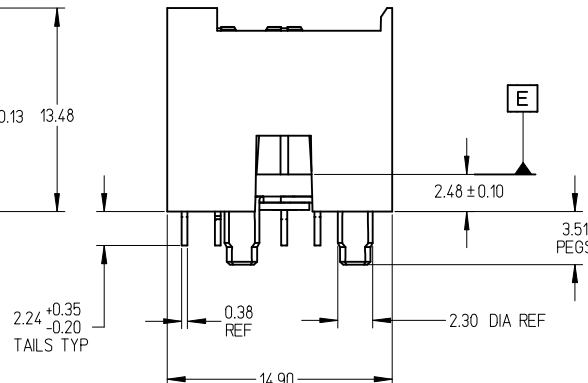
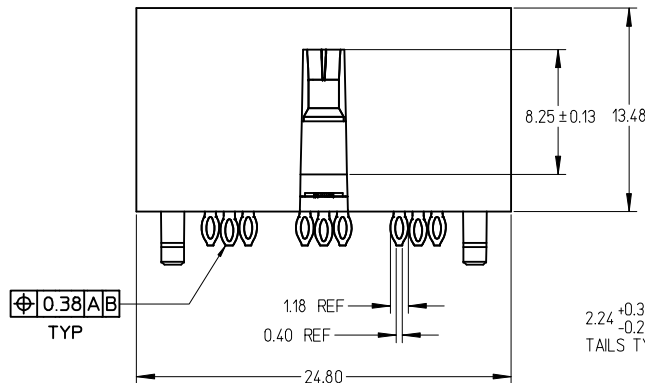
RECOMMENDED PCB LAYOUT
FOR THE 6 POSITION CONNECTOR
COMPONENT SIDE
MAX. BOARD THICKNESS: 4.50

SEE SHEET 1 EC NO: UCP2009-1570 DRWN: JENDOZA2009/01/05 CHKD: JINGHAM 2009/01/05 APPR: JINGHAM 2009/01/05	QUALITY SYMBOLS ▽ 0 ▽ 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	REVISE ON CAD ONLY	
		mm	INCH	DIMENSION STYLE MM ONLY		TITLE	SALES DRAWING FOR VERTICAL GANGED RF CONNECTOR, SHORT TAILS	
		4 PLACES	± ---	± ---	DRAWN BY SREED	DATE 2006/06/06	MOLEX INCORPORATED	
		3 PLACES	± ---	± ---	CHECKED BY JBYINGHAM	DATE 2006/06/06	SEE CHARTS SD-74712-002	
D	REV	2 PLACES	± ---	± ---	APPROVED BY SREED	DATE 2006/06/06	MATERIAL NO.	DOCUMENT NO.
		1 PLACE	± ---	± ---	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SHEET NO. 4 OF 5	

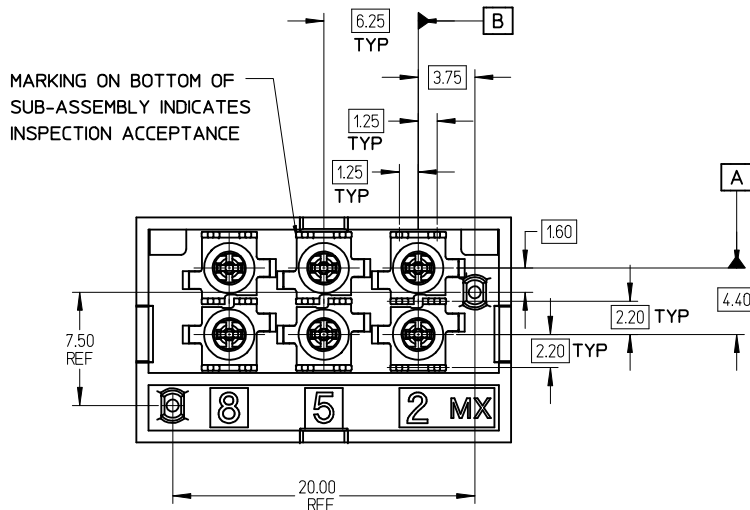
MATERIAL NO.	POSITION OF LOADED TERMINAL(S)	OPTIONAL PACKAGING HEADER	PACKAGING SPEC.
74712-5007	2, 5, 8	NO	PK-74712-101



MATL NO.: 74712-5007
POSITIONS 2, 5 & 8 LOADED



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.

SEE SHEET 1	EC NO: UCP2009-1570	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
	DRWN: JENDOZA 2009/01/05										
	CHKD: J.BINGHAM 2009/01/05			mm	INCH	DRAWN BY	DATE	TITLE	SALES DRAWING FOR VERTICAL GANGED RF CONNECTOR, SHORT TAILS		
	APPR: J.BINGHAM 2009/01/05			4 PLACES	± ---	± ---	SREED	2006/06/06			
	REV			3 PLACES	± ---	± ---	CHECKED BY	DATE	MOLEX MOLEX INCORPORATED		
	2 PLACES	± ---	± ---	JB INGHAM	2006/06/06						
	1 PLACE	± ---	± ---	APPROVED BY	DATE	SHEET NO. 5 OF 5					
				SREED	2006/06/06						
				ANGULAR ± 2 °		MATERIAL NO.		DOCUMENT NO.			
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-74712-002			
						SIZE C		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			