

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0747124003

Status:

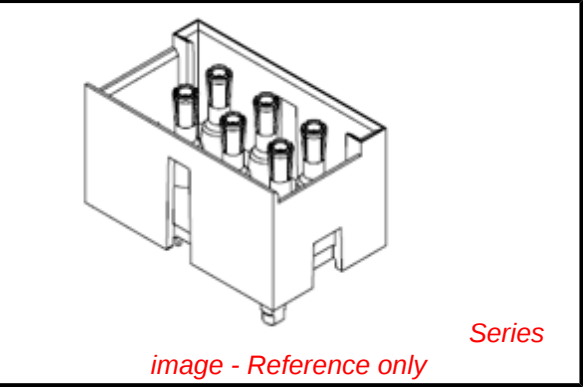
Active

Overview:

ganged_rf

Description:

6.25mm (.246") Pitch Ganged RF Header, Vertical, 8 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	Ports Numbered 2, 5, 8, and 11 Loaded
Component Type	PCB Header
Overview	ganged_rf
Product Name	Ganged RF
Style	N/A
Physical	
Circuits (Loaded)	8
Circuits (maximum)	8
Circuits Detail	8
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	4
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

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

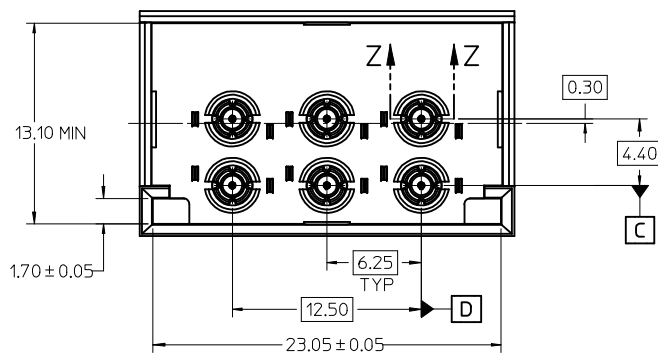
Reference - Drawing Numbers

Packaging Specification
Product Specification
Sales Drawing

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

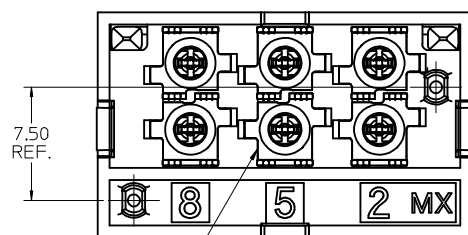
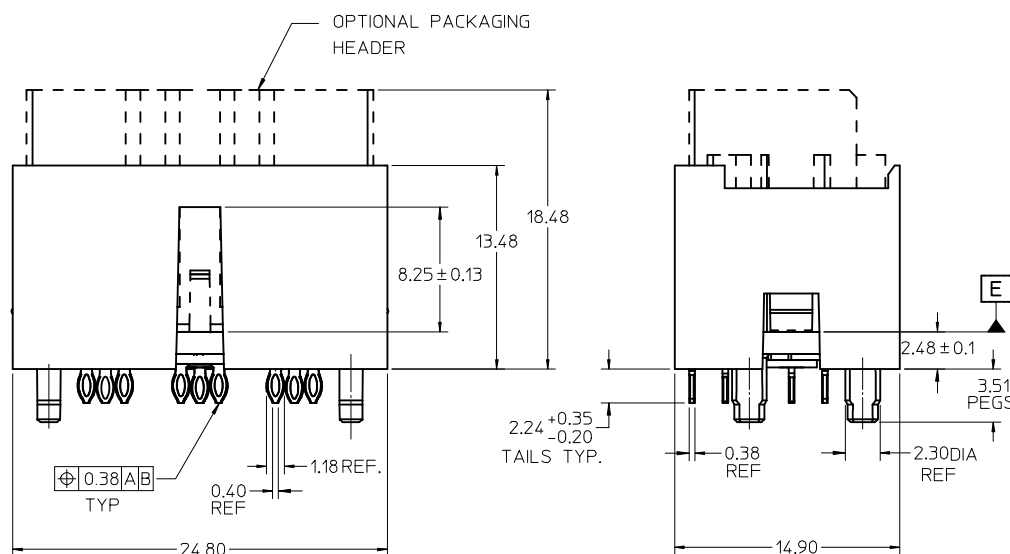
This document was generated on 05/15/2010

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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	

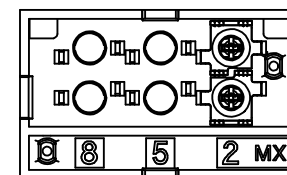
NOTE: REFER TO SHEET 1 FOR ALL DIMENSIONS, SECTION VIEW AND NOTES NOT SHOWN.



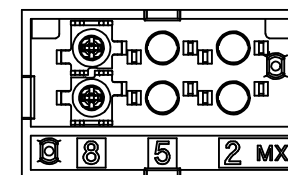
MARKING ON BOTTOM OF SUB-ASSEMBLY INDICATES INSPECTION ACCEPTANCE

6 POS. CONNECTOR SHOWN

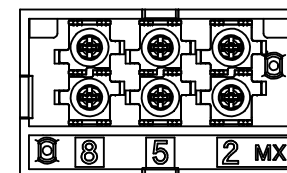
CONTACT LOADING OPTIONS FOR 6 POS. CONNECTOR



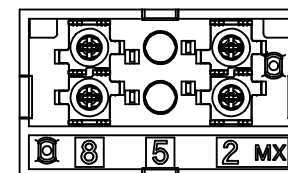
MATL NO.: 74712-5003/-5006
POSITION 2 LOADED ONLY



MATL NO.: 74712-5004
POSITION 8 LOADED ONLY

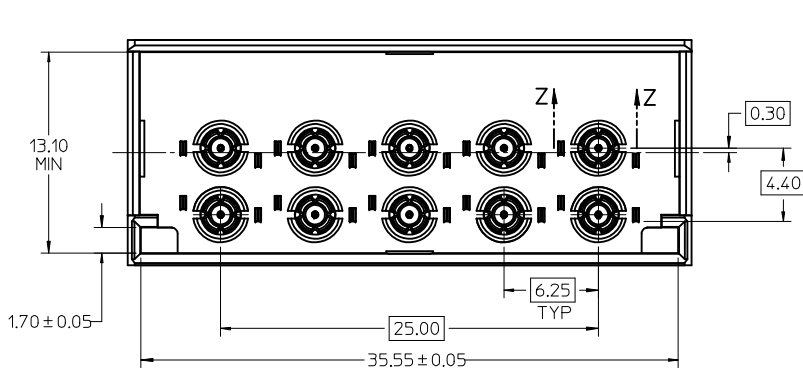


MATL NO.: 74712-5001/-5005
POSITIONS 2, 5 & 8 LOADED



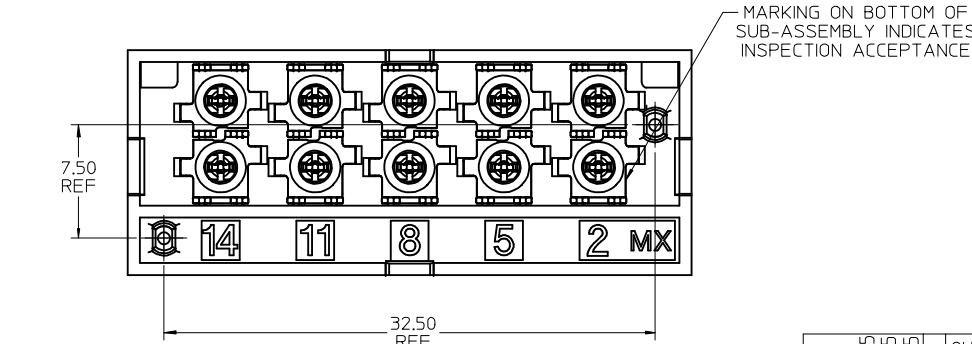
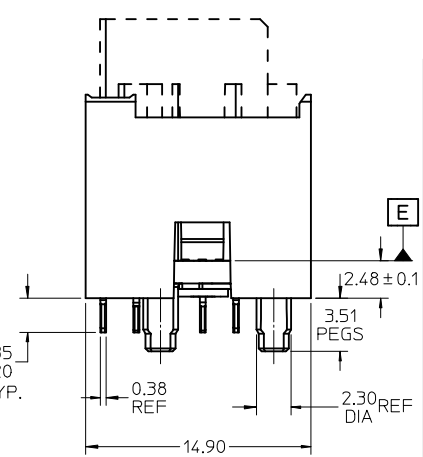
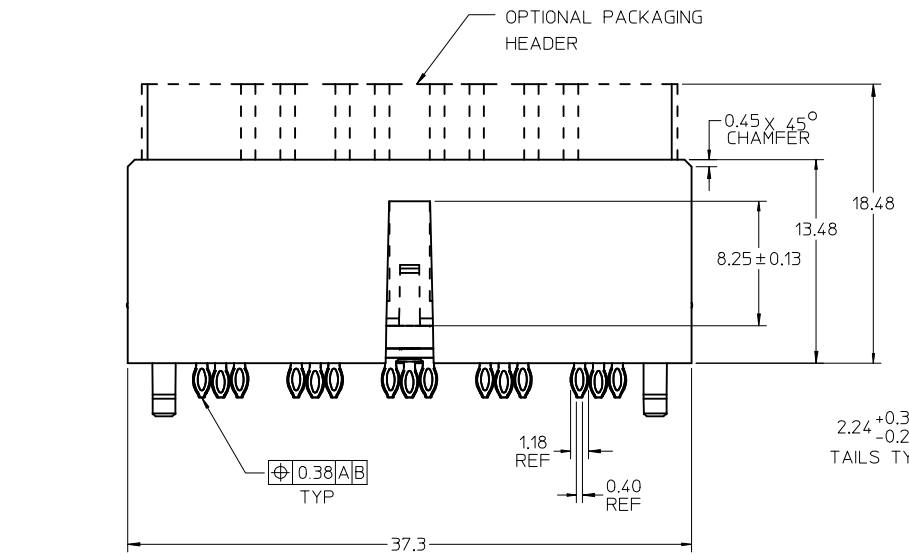
MATL NO.: 74712-5002
POSITIONS 2 & 8 LOADED

SEE SHEET 1 EC NO: UCP2009-1570 DRWN: JENDO2A2009/01/05 CHKD: JINGHAM 2009/01/05 APPR: JINGHAM 2009/01/05	DESCRIPTION	QUALITY SYMBOLS	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					
		3 PLACES		± ---	± ---							
		2 PLACES		± ---	± ---	CHECKED BY JBINGHAM	DATE 2006/06/06					
		1 PLACE		± ---	± ---							
		ANGULAR ± 2 °			APPROVED BY SREED		DATE 2006/06/06	MATERIAL NO. SEE CHART	DOCUMENT NO. SD-74712-002	SHEET NO. 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							
		D	REV									

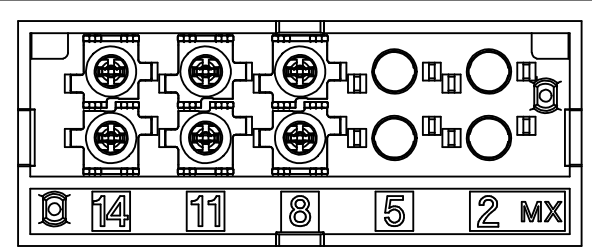


NOTE: REFER TO SHEET 1 FOR ALL DIMENSIONS.
SECTION VIEW AND NOTES NOT SHOWN.

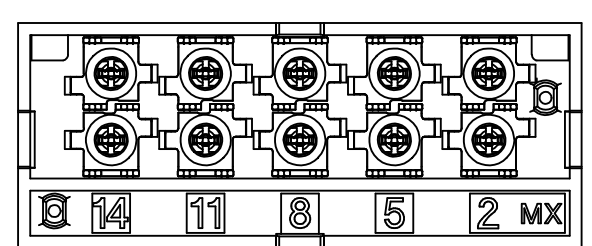
MATERIAL NO.	POSITION OF LOADED TERMINAL(S)	PACKAGING SPEC.
74712-6001	2, 5, 8, 11, 14	PK-74712-210
74712-6002	8, 11, 14	



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

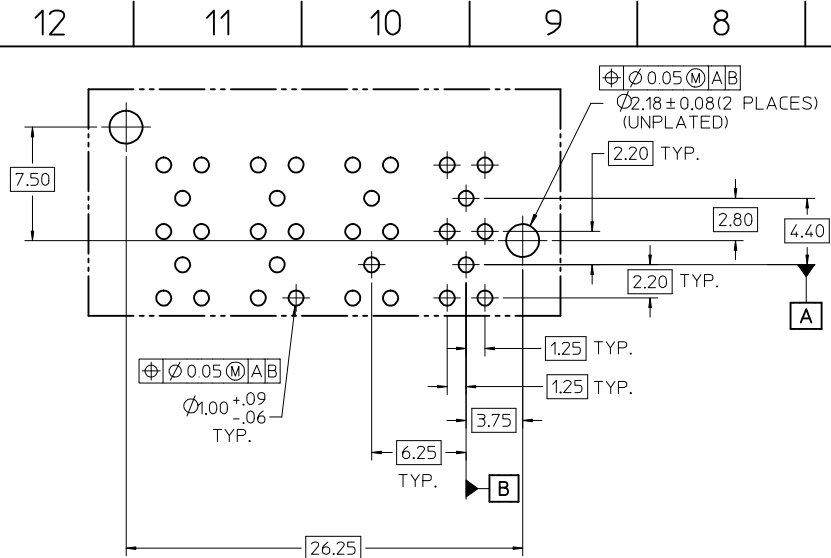
QUALITY SYMBOLS
▽ 0
▽ 0

DESCRIPTION
REV

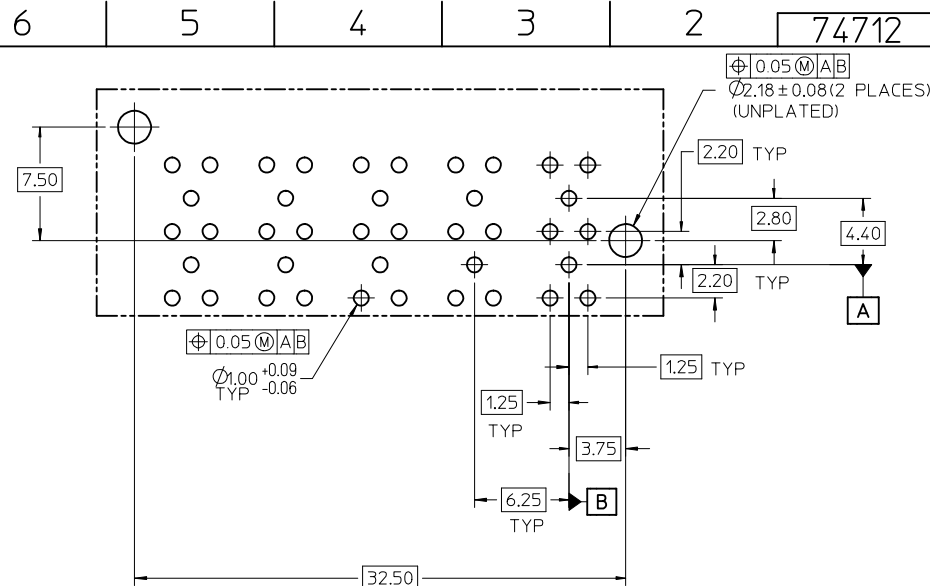
GENERAL TOLERANCES (UNLESS SPECIFIED)
mm INCH
4 PLACES ± --- ± ---
3 PLACES ± --- ± ---
2 PLACES ± --- ± ---
1 PLACE ± --- ± ---
ANGULAR ± 2 °
DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

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

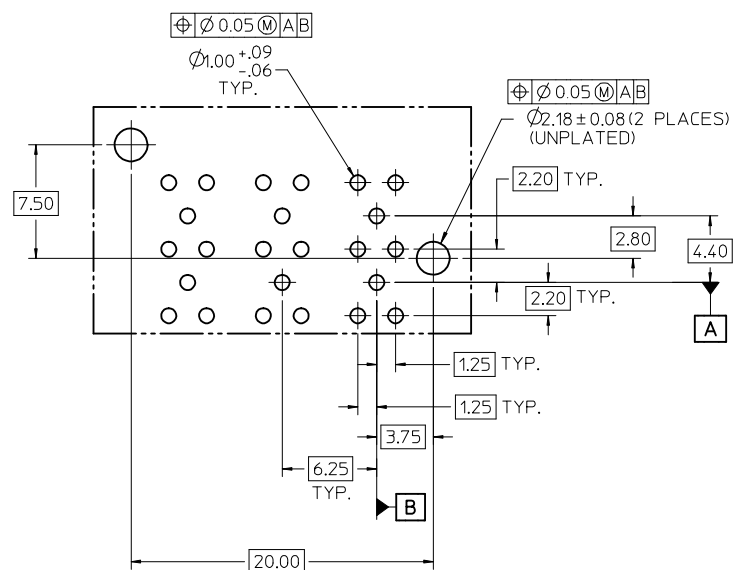
THIRD ANGLE PROJECTION
REVISE ON CAD ONLY
TITLE
SALES DRAWING FOR VERTICAL GANGED RF CONNECTOR, SHORT TAILS
molex MOLEX INCORPORATED
MATERIAL NO. SEE CHART
DOCUMENT NO. SD-74712-002
SHEET NO. 3 OF 5



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



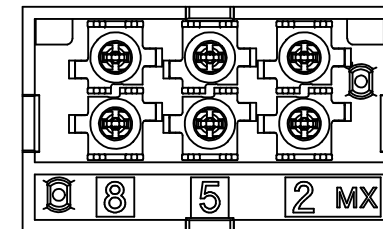
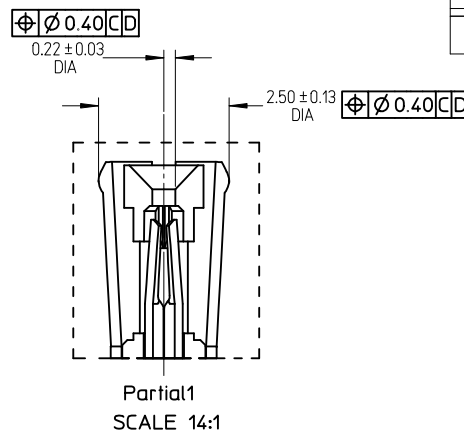
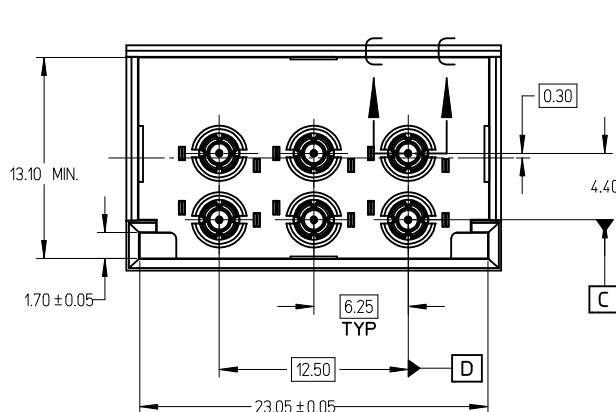
RECOMMENDED PCB LAYOUT
FOR THE 10 POSITION CONNECTOR
COMPONENT SIDE
MAX. BOARD THICKNESS: 4.50



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	DESCRIPTION	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	DATE			
			3 PLACES	± ---	± ---	SREED	2006/06/06	MOLEX INCORPORATED		
			2 PLACES	± ---	± ---	CHECKED BY	DATE			
			1 PLACE	± ---	± ---	JBINGHAM	2006/06/06			
			ANGULAR ± 2 °			APPROVED BY	DATE	MATERIAL NO.	DOCUMENT NO.	SHEET NO.
DRAFT WHERE APPLICABLE			SREED	2006/06/06	SEE CHARTS	SD-74712-002	4 OF 5			
MUST REMAIN WITHIN DIMENSIONS			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					C		

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

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

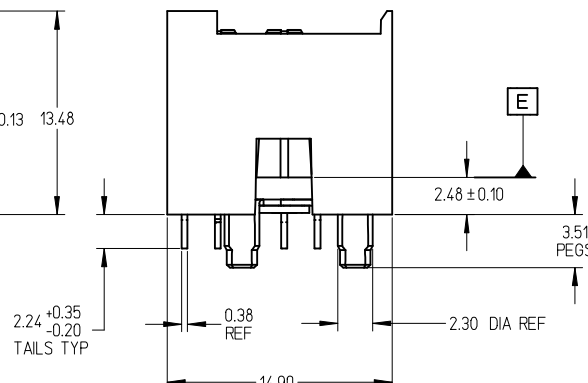
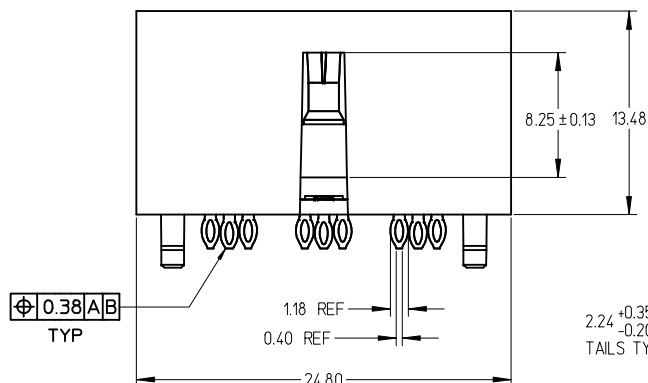
2. PLATING:

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

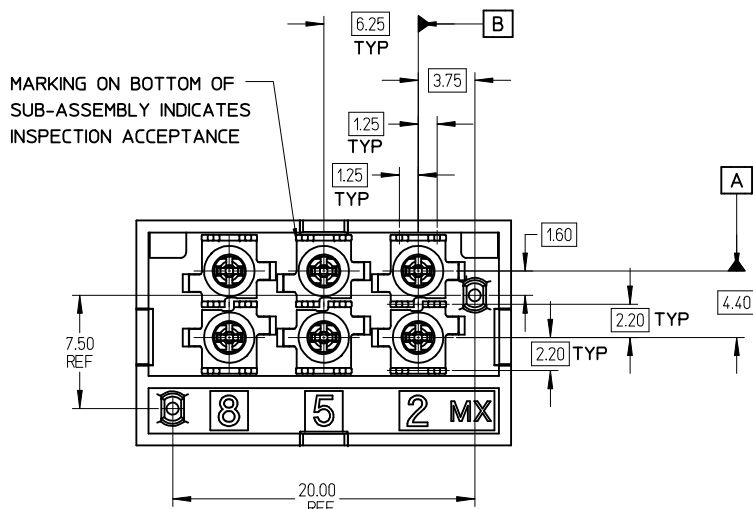
3. REFER TO PRODUCT SPEC.: PS-74854-001 FOR ELECTRICAL, MECHANICAL AND ENVIRONMENTAL REQUIREMENTS.

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 POS. CONNECTOR SHOWN



REV	DESCRIPTION
D	SEE SHEET 1 EC NO: UCP2009-1570 DRWN: JENDOZA 2009/01/05 CHKD: J BINGHAM 2009/01/05 APPR: J BINGHAM 2009/01/05

QUALITY SYMBOLS
▽=0
▽=0

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

DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
MM ONLY	4:1	METRIC	
DRAWN BY	DATE	SALES DRAWING FOR VERTICAL GANGED RF CONNECTOR, SHORT TAILS MOLEX INCORPORATED	
SREED	2006/06/06		
CHECKED BY	DATE		
J BINGHAM	2006/06/06		
APPROVED BY	DATE	MOLEX INCORPORATED	
SREED	2006/06/06		
MATERIAL NO.	DOCUMENT NO.	SD-74712-002	
SEE CHART			
SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	

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