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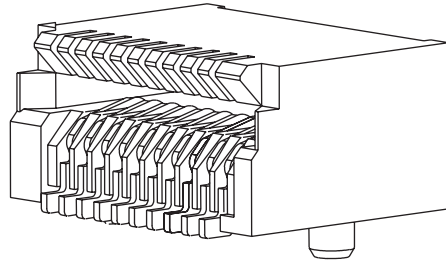
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Jameco Part Number 1933953

0.80mm (.031") Pitch Small Form-Factor Pluggable (SFP) Receptacle

74441

**Right Angle, SMT
20 Circuit**



Features and Benefits

- Connector used in conjunction with pluggable transceiver modules allows you to mate copper cable or optical cable assemblies without changing host board
- Card entry slot to accept 1.00mm (.039") thick integrated circuit board (located inside pluggable module)
- Alignment posts provide stability for placement on the PCB
- Standoffs allow easy PCB cleaning after soldering
- SMT receptacle provides option for placement on either side of PCB
- Meets MSA standards

Reference Information

Packaging: Tape and reel
Mates With: 73929 Copper patch cable, 74720 Copper pluggable module and optical pluggable module
Use With: 73927 cage assembly
Designed In: Millimeters

Electrical

Voltage: 30V
Current: 0.5A
Contact Resistance: 10 milliohms max.
Dielectric Withstanding Voltage: 300V AC
Insulation Resistance: 100 Megohms min.

Mechanical

Contact Retention to Housing: 4.4N (1.0 lb)
Mating Force: 22N (5.0 lb)
Unmating Force: 8.8N (2.0 lb)
Normal Force: 0.8N (80g)
Durability: 200 cycles

Physical

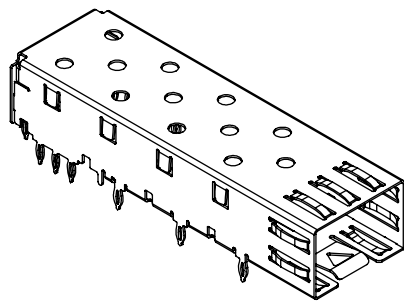
Housing: High-temperature thermoplastic
Contact: Copper Alloy
Plating: Contact Area—See table
Solder Tail Area—Gold flash or 2.54mm Tin
Underplating—2.54µm Nickel
PCB Thickness: 1.00mm (.039")
Operating Temperature: -55 to +105°C

Circuits	Order No.	Plating	Lead-free
20	74441-0001	0.38µm (25µ") Gold	Yes
	74441-0010	0.76µm (30µ") Gold	
30	74441-0007	0.38µm (25µ") Gold	
	74441-0017	0.76µm (30µ") Gold	
70	74441-0003	0.38µm (25µ") Gold	
	74441-0013	0.76µm (30µ") Gold	

www.molex.com/product/sfp_products.html

1X SFP (Small Form-factor Pluggable) EMI Cage

74737



Features and Benefits

- Press-fit, solder post and PCI pin styles enable use with various PCB thicknesses and assembly processes
- Two-point spring contacts offer optimal EMI grounding
- One-piece, stamped and formed cage is able to meet RoHS requirements by eliminating solder
- Built in tabs allow addition of lightpipe cover

Reference Information

Packaging: Tray
Mates With: 73929, 73930, 74742, 74743 and 74720
Use With: 74441
Designed In: Millimeters

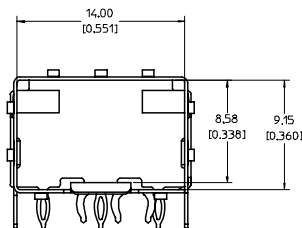
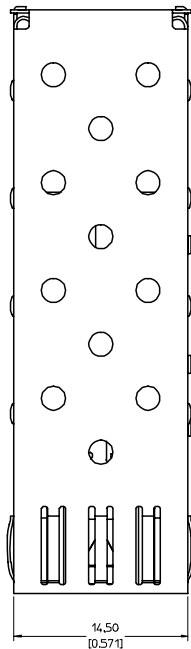
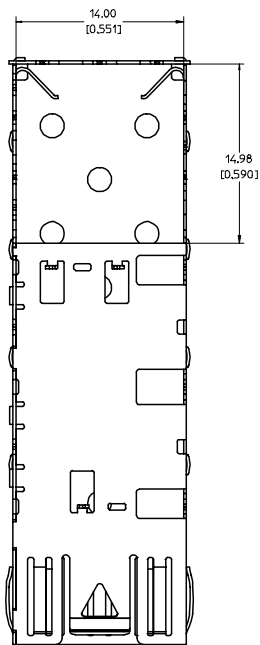
Mechanical

Insertion Force to PCB: 3.25 lbF per press-fit pin
Retention Force to PCB: 1.6 lbF per press-fit pin
Durability: 1 cycle

Physical

Cage Housing: C770 Alloy
Plating: Nickel
PCB Thickness: 1.57mm (.062") min.
Operating Temperature: -55 to +105°C

Order No.	Description	Cross Reference to 73927 Series	Lead-free
74737-0002	Press-fit (.090") legs	73927-0001 73927-0017 73927-0109	Yes
74737-0004	Press-fit (.090") legs, Belly-to-Belly	73927-0008 73927-0018 73927-0108	
74737-0009	Press-fit (.120") legs	73927-0009	
74737-0010	Solder post (0.133" legs), wave solder for 0.093" PCB	73927-0010	
74737-0014	Press-fit (0.120" legs) with Kapton tape	73927-0014	
74737-0016		73927-0016	

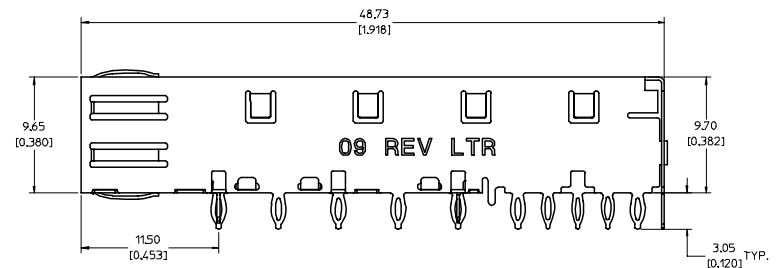
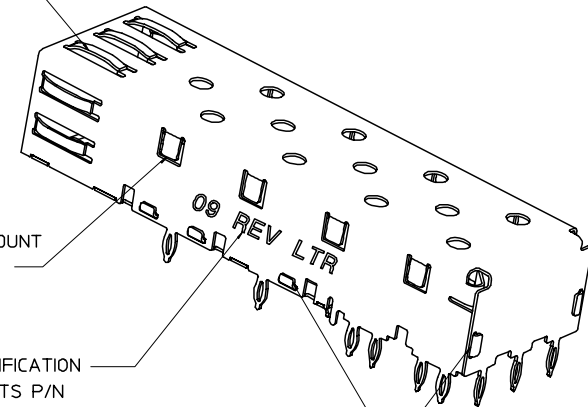


SPRING FINGER GASKET WITH
TWO POINTS OF CONTACT.
COMPLIES WITH (SFP) MSA
BOARD AND BEZEL LOCATIONS.

TABS USED TO MOUNT
LIGHT PIPE COVER

CAGE IDENTIFICATION
LAST 2 DIGITS P/N
AND REV LETTER
(ex: 09 X)

ONE PIECE DESIGN
SECURELY PASTENED



NOTES:

1. PRESS FIT LEGS, 0.120 INCHES LONG.
157 [0.062] MINIMUM PCB THICKNESS.
2. THIS CAGE IS FOR SINGLE SIDED USE ONLY.
3. CAN BE USED WITH THE FOLLOWING LIGHT PIPE PART NUMBERS:

747260001 - LIGHT PIPE FROM BACK TO TOP
(REFER TO DOCUMENT SD-74726-001)

747260002 - LIGHT PIPE FROM SIDE TO TOP
(REFER TO DOCUMENT SD-74726-002)

4. MATERIAL: COPPER ALLOY
PLATING: PRE-PLATED WITH NICKEL

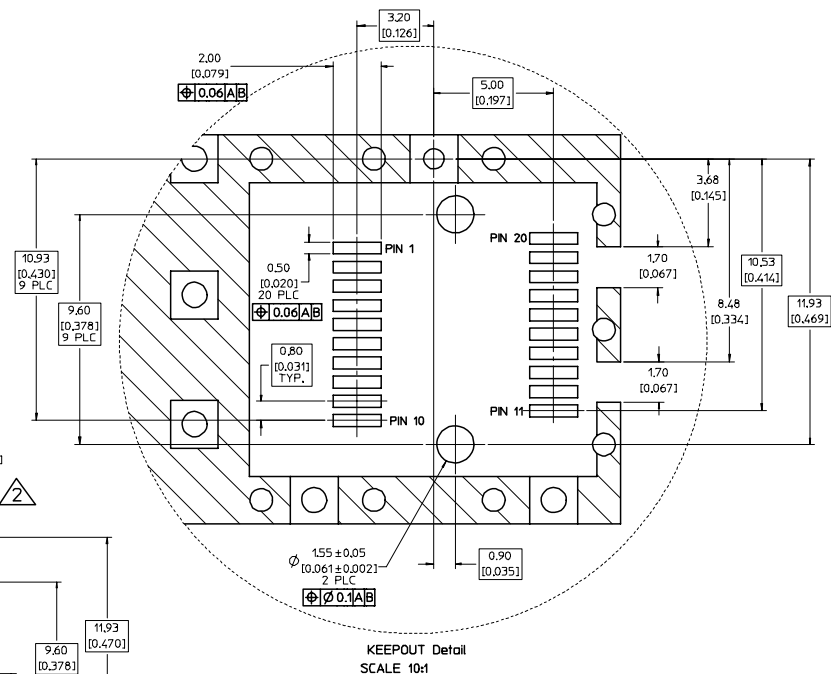
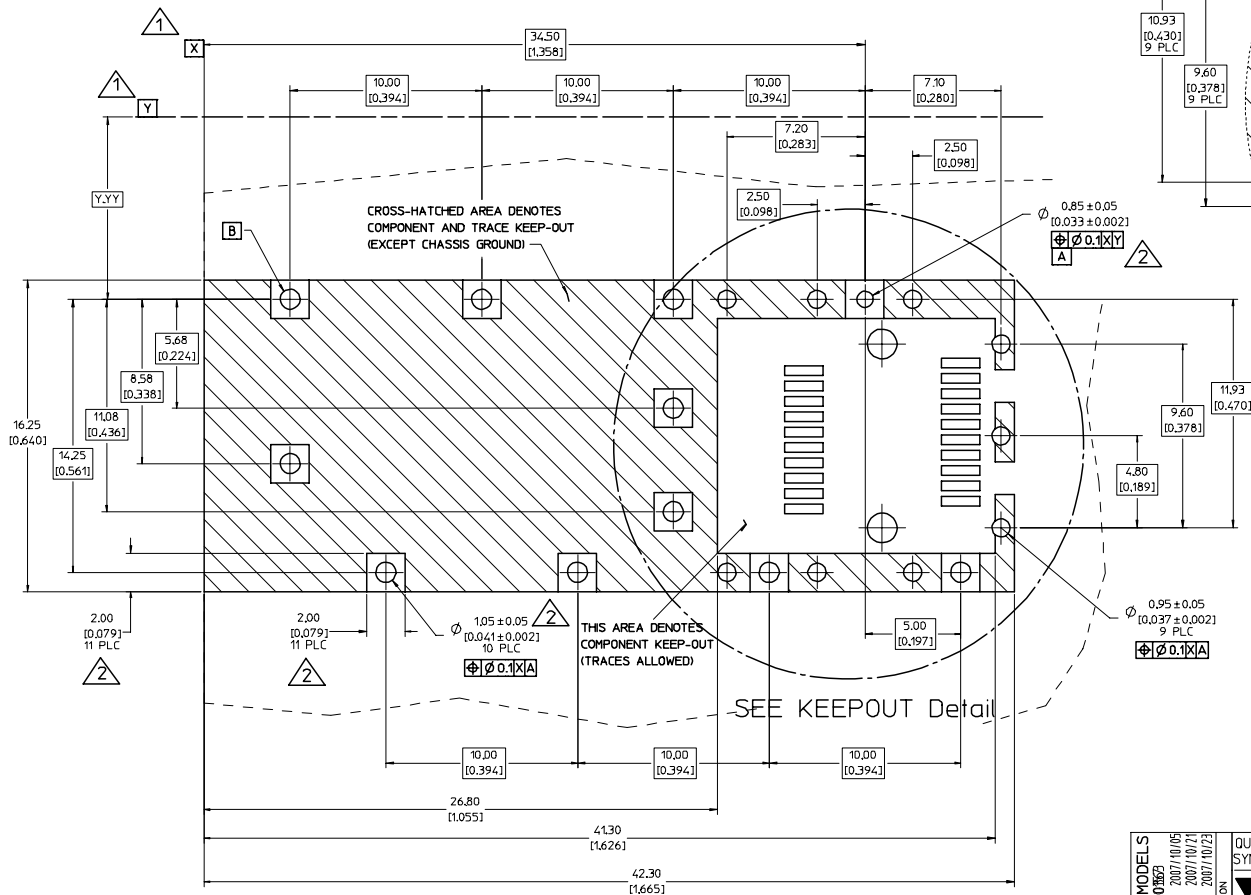
5. THIS PART MEETS THE RESTRICTION OF HAZARDOUS SUBSTANCES IN
ELECTRICAL AND ELECTRONIC EQUIPMENT (ROHS) DIRECTIVE (2002/95/EC).

UPDATED 3D MODELS EC NO: USY2008-0862 DRAWN BY: C COX CHECKED BY: CHKCD APPROVED BY: RMAHMOOD DATE: 2007/10/05 DATE: 2007/10/21 DATE: 2007/10/23	QUALITY SYMBOLS ▴=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) 4 PLACES ± --- ± --- 3 PLACES ± --- ± .005 2 PLACES ± 0.13 ± .01 1 PLACE ± 0.25 ± --- ANGULAR ± 1 °	DIMENSION STYLE MM/IN		SCALE 5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
			DRAWN BY C COX	DATE 2006/11/22	TITLE SFP ONE PIECE CAGE PRESS-FIT (0.120 LEGS)		
			CHECKED BY RMAHMOOD	DATE 2006/11/22	MOLEX INCORPORATED		
			MATERIAL NO. 747370009	DOCUMENT NO. SD-74737-009	SHEET NO. 1 OF 4		

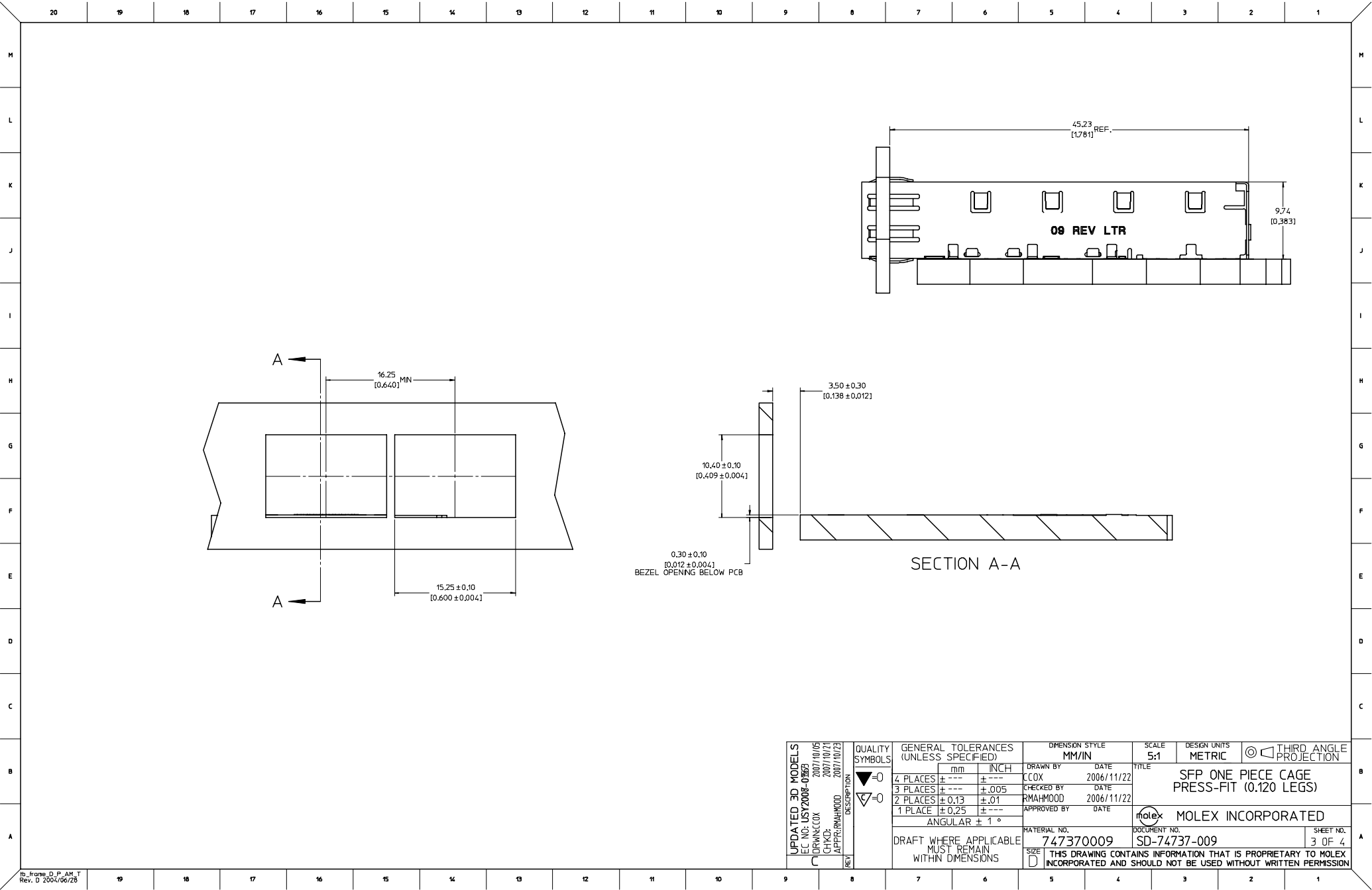
DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

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

- 1 DATUM AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.
- 2 PADS AND VIAS ARE CHASSIS GROUND.
- 3 HOLE LAYOUT SHOWN IS FOR SINGLE SIDED MOUNTING ONLY.
4. CONNECTOR PAD LAYOUT PER SFP MSA, WILL ACCOMMODATE MOLEX CONNECTOR SERIES 74441 OR EQUIVALENT.



UPDATED 3D MODELS EC NO: US2008-0852 TORINCOX CHKD: 2007/10/21 APPR: RMAHMOOD 2007/10/23	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
				MM/IN		8:1	METRIC	
				DRAWN BY		DATE	TITLE	
				C.COX		2006/11/22	SFP ONE PIECE CAGE PRESS-FIT (0.120 LEGS)	
				CHECKED BY		DATE		
				RMAHMOOD		2006/11/22		
				APPROVED BY		DATE		



UPDATED 3D MODELS EC NO: USY2008-0362 DRAWN BY: CCX CHKD: RMHMOOD APPR: RMHMOOD REV	QUALITY SYMBOLS ▽=0 ▽=0 DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 5:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	SFP ONE PIECE CAGE PRESS-FIT (0.120 LEGS)	MOLEX INCORPORATED	SHEET NO. 3 OF 4
		mm INCH		DRAWN BY DATE		TITLE					
		4 PLACES ± .005 ± .005		CCX 2006/11/22		CHECKED BY DATE					
		3 PLACES ± .013 ± .01		RMHMOOD 2006/11/22		APPROVED BY DATE					
		2 PLACES ± 0.13 ± .01									
		1 PLACE ± 0.25 ± 1 °									
		ANGULAR ± 1 °									
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. 747370009		DOCUMENT NO. SD-74737-009					
		SIZE D		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

