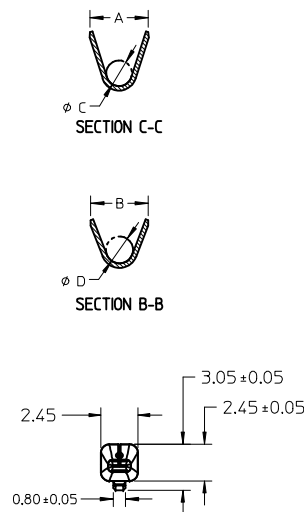
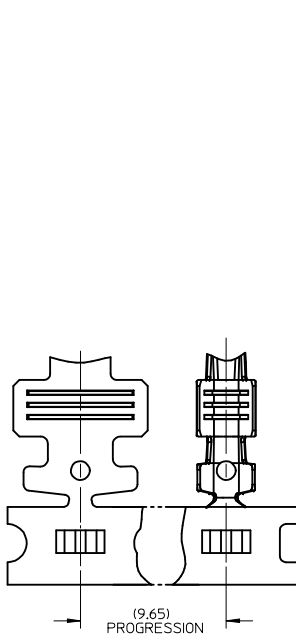
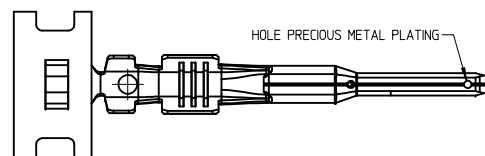
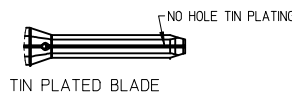


GENERAL NOTES: (UNLESS OTHERWISE SPECIFIED)

- MATING TERMINAL SHOWN ON SD-33012-002
- MATERIAL: ASTM B422, UNS C19025, HR04
THICKNESS: 0.30 mm ± 0.01
TEMPER: FULL HARD (REF)
TENSILE: 496-572 MPA
- TIN PLATED TERMINAL FINISH:
OVERALL UNDERPLATE ELECTRODEPOSITED NICKEL
OVERALL ELECTRODEPOSITED REFLOW TIN
- GOLD PLATED TERMINAL FINISH:
OVERALL UNDERPLATE ELECTRODEPOSITED DUCTILE SULFAMATE NICKEL
CONTACT AREA - ELECTRODEPOSITED GOLD
GRIP AREA - ELECTRODEPOSITED 100% TIN MATTE FINISH
- SILVER PLATED TERMINAL FINISH:
OVERALL UNDERPLATE ELECTRODEPOSITED DUCTILE SULFAMATE NICKEL
CONTACT AREA - ELECTRODEPOSITED PURE SILVER (0.5% MAX IMPURITIES) SEMI-BRIGHT FINISH
- SILVER ANTI-TARNISH : EVABRITE
GRIP AREA - ELECTRODEPOSITED 100% TIN MATTE FINISH
- MEETS CRIMP PERFORMANCE SPECIFICATION SAE/USCAR-21 (11/2001)
- MEETS PERFORMANCE STANDARD FOR AUTOMOTIVE ELECTRICAL CONNECTOR SYSTEMS SAE/USCAR-2 REV 3 (APRIL 2001)
- MEETS FIELD CORRELATED LIFE TEST SAE/USCAR-20 (11/2001)
- MEETS WIRING COMPONENT DESIGN GUIDELINES SAE/USCAR-12 REV 2 (12/2001)
- MEETS ELECTRICAL CONNECTION SYSTEM DESIGN SPECIFICATION (SDS) REV 11 (5/2002)
- REFERENCE PK-31300-516 FOR REEL DIRECTION
- REFERENCE AS-33000-001 FOR CRIMP INFORMATION



PRECIOUS METAL PLATED BLADE



TIN PLATED BLADE

ENTER DESCRIPTION
EC NO: UAU2014-0473
DRWN:BJENNINGS01 2013/10/07
CHKD:
APPR:BMOSER 2014/01/03

QUALITY SYMBOLS
▽=0
▽=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.1	± ---
1 PLACE	± 0.3	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

DRAWN BY	DATE
L.PULLIAM	2006/01/31
CHECKED BY	DATE
A.DHIR	2006/02/01
APPROVED BY	DATE
B.MOSER	2006/02/02

MATERIAL NO.
SEE TABLE

SCALE
4:1

DESIGN UNITS
METRIC

THIRD ANGLE PROJECTION

TITLE
MX150 15MM BLADE
TERMINAL

MOLEX INCORPORATED

DOCUMENT NO.
SD-33000-001

SHEET NO.
1 OF 5

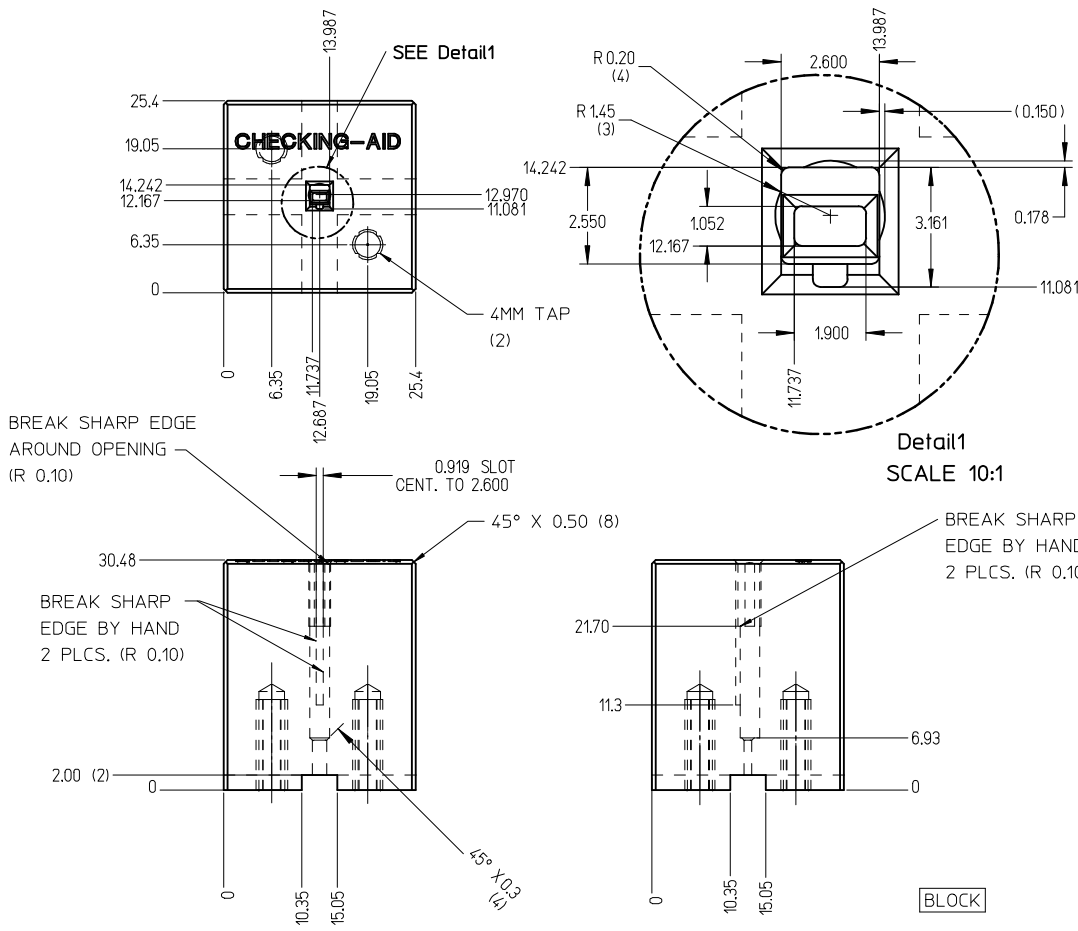
FAMILY	GENDER	SEALING	PLATING	PART NUMBER	PAYOFF DIRECTION	GRIP CODE	WIRE SIZES*	A ±0.30	B ±0.30	C ±0.30	D ±0.30	SPECIAL CHARACTERISTICS
MX150	BLADE	MAT SEAL UNSEALED	Sn	33000-0001	RIGHT (B)	14	14AWG	3.9	3.8	1.7	1.6	HIGH PERFORMANCE Sn
				33000-1001	LEFT (D)		1.50-2.00mm ²					
				33000-0002	RIGHT (B)	18	20/18/16AWG	3.3	3.1	1.3	1.4	
				33000-1002	LEFT (D)		0.75-1.00mm ²					
				33000-0003	RIGHT (B)	22	22AWG	2.5	2.6	0.9	1.0	
				33000-1003	LEFT (D)							
				33000-0004	RIGHT (B)	M3	0.35-0.50mm ²	2.5	2.7	0.9	1.54 ±0.1	
				33000-1004	LEFT (D)							
			Au	33011-1002	RIGHT (B)	14	14AWG	3.9	3.8	1.7	1.6	HIGH PERFORMANCE Au
				33011-0002	LEFT (D)		1.50-2.00mm ²					
				33011-1004	RIGHT (B)	18	20/18/16AWG	3.3	3.1	1.3	1.4	
				33011-0004	LEFT (D)		0.75-1.00mm ²					
				33011-1006	RIGHT (B)	22	22AWG	2.5	2.6	0.9	1.0	
				33011-0006	LEFT (D)							
				33011-1008	RIGHT (B)	M3	0.35-0.50mm ²	2.5	2.7	0.9	1.54 ±0.1	
				33011-0008	LEFT (D)							
			Ag	33011-2003	RIGHT (B)	14	14AWG	3.9	3.8	1.7	1.6	HIGH PERFORMANCE Ag
				33011-3003	LEFT (D)		1.50-2.00mm ²					
				33011-2002	RIGHT (B)	18	20/18/16AWG	3.3	3.1	1.3	1.4	
				33011-3002	LEFT (D)		0.75-1.00mm ²					
				33011-2001	RIGHT (B)	22	22AWG	2.5	2.6	0.9	1.0	
				33011-3001	LEFT (D)							
				33011-2004	RIGHT (B)	M3	0.35-0.50mm ²	2.5	2.7	0.9	1.54 ±0.1	
				33011-3004	LEFT (D)							

* REFERENCE AS-33000-001 FOR SPECIFIC WIRE TYPES

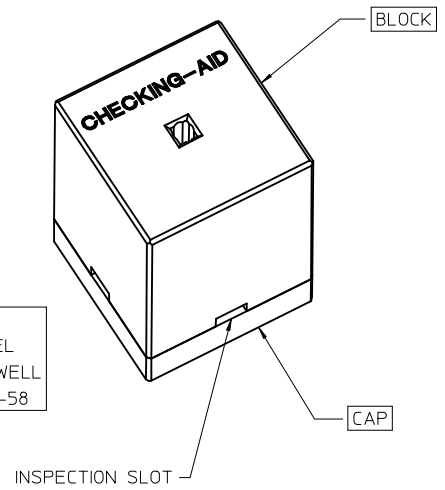
ENTER DESCRIPTION EC NO: UAU2014-0473 DRWN:BJENNINGS01 2013/10/07 CHKD: APPR:BMOSER 2014/01/03 REV	QUALITY SYMBOLS	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY L.PULLIAM	DATE 2006/01/31	TITLE MX150 15MM BLADE TERMINAL				
			4 PLACES	± ---	± ---	CHECKED BY A.DHIR	DATE 2006/02/01					
			3 PLACES	± ---	± ---	APPROVED BY B.MOSER		DATE 2006/02/02	MOLEX MOLEX INCORPORATED			
			2 PLACES	± 0.1	± ---							
			1 PLACE	± 0.3	± ---	MATERIAL NO.		DOCUMENT NO.	SHEET NO.			
			ANGULAR ± 3 °			SEE TABLE		SD-33000-001		2 OF 5		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE C	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

J
I
H
G
F
E
D
C
B
A

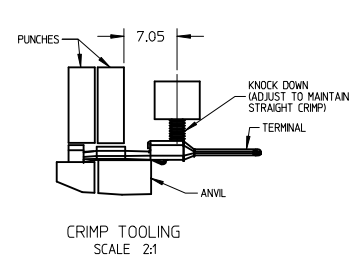
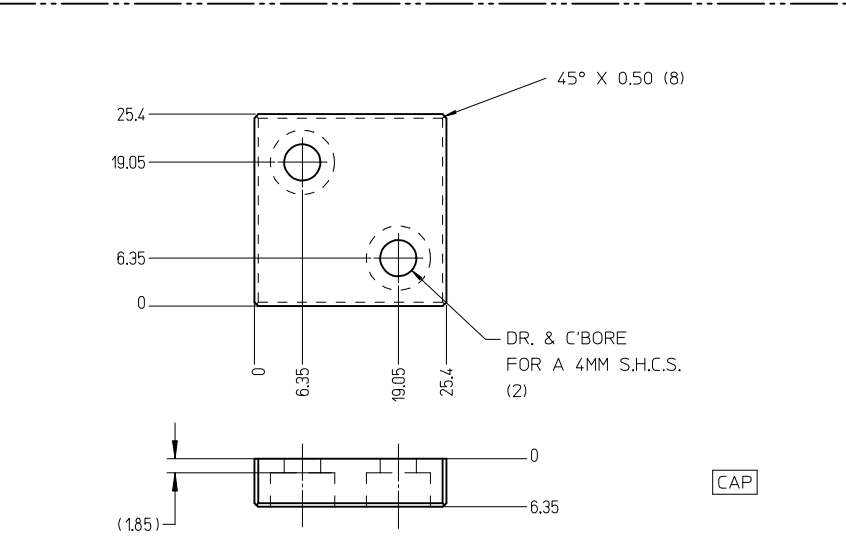
13 12 11 10 9 8 7 6 5 4 3 2 1



CHECKING-AID
2 PIECE ASM. A2 TOOL STEEL
HARDEN & GRIND TO A ROCKWELL
HARDNESS "C" SCALE OF 56-58

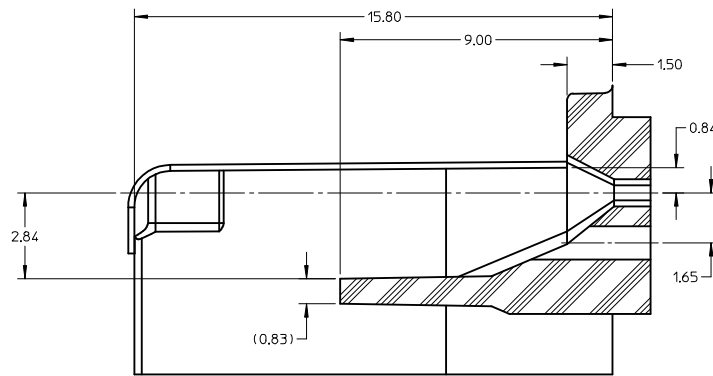
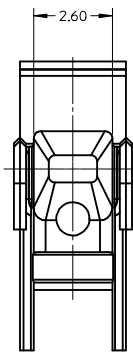


CHECKING AID TOLERANCE
.XXX = .005
.XX = .03
.X = .3



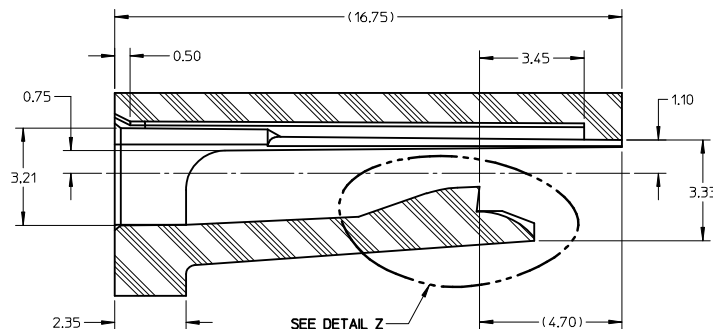
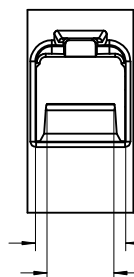
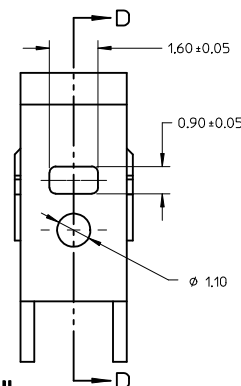
- CRIMP REQUIREMENTS:
1. CRIMP STRAIGHTNESS MUST BE MAINTAINED. USE A KNOCKDOWN TOOL LOCATED AS SHOWN. TERMINAL BOX MUST NOT BE DEFORMED
 2. AFTER CRIMPING, THE TERMINAL AND WIRE MUST FIT FREELY INTO THE CHECKING AID 33000-700. PROPER INSERTION DEPTH IS MET WHEN BLADE TIP STOPS ON CAP. SLOTS PROVIDED TO VISUALLY INSPECT STOPPAGE OF PIN TIP.
 3. FOR OTHER MECHANICAL REQUIREMENTS ON CRIMPED TERMINALS, REFER TO SAE/USCAR-21 (5-13-02) SECTIONS 4.2 (VISUAL INSPECTION), 4.3 (CROSS SECTION ANALYSIS) AND 4.4 (CONDUCTOR CRIMP PULLOUT FORCE)

ENTER DESCRIPTION EC NO: UAU2014-0473 DRWN:BJENN/NGS01 2013/10/07 CHKD: APPR:BMOSER 2014/01/03 D	DESCRIPTION QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	MX150 1.5MM BLADE TERMINAL	
			mm	INCH	DRAWN BY L.PULLIAM	DATE 2006/01/31	TITLE			
		4 PLACES	± ---	± ---	CHECKED BY	DATE				
		3 PLACES	± ---	± ---	A.DHIR	2006/02/01				
		2 PLACES	± 0.1	± ---	APPROVED BY	DATE				
		1 PLACE	± 0.3	± ---	B.MOSER	2006/02/02				
		ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-33000-001		3 OF 5				
REV		SIZE C	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							



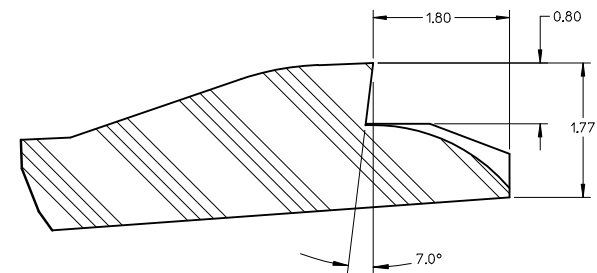
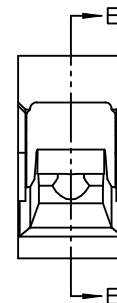
SECTION D-D

TPA/INSERT DETAIL



SECTION E-E

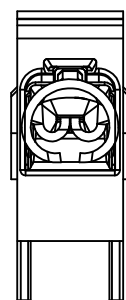
HOUSING DETAIL



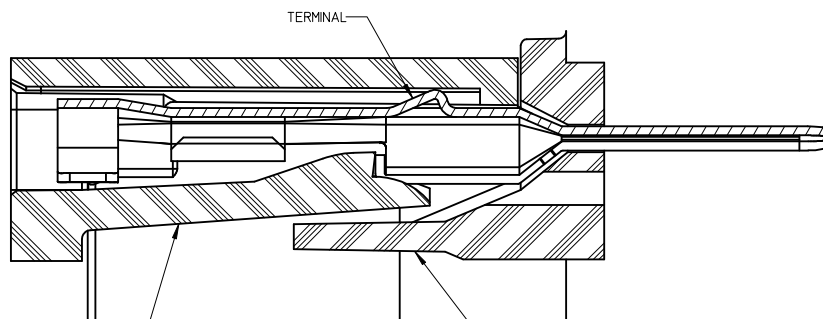
DETAIL Z
SCALE 20:1

NOTES: (UNLESS OTHERWISE SPECIFIED)

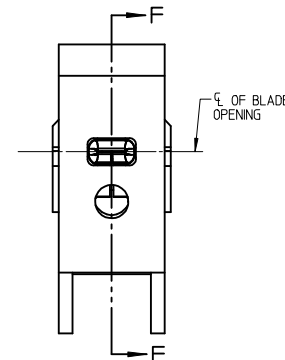
1. TOLERANCES: LINEAR ± 0.10
ANGULAR 3°
2. ALL DRAFT WITHIN TOLERANCE
3. MAX RADI ON ALL CORNERS SHOWN SHARP: 0.10
4. MAX FLASH PERMISSIBLE: 0.1
5. EJECTOR PIN MARKS PERMISSIBLE IF FLUSH TO 0.25 BELOW SURFACE
6. MATERIAL: HOUSING/FINGER SPECIFICATION ENGINEERED FOR MATERIAL WITH THE FOLLOWING PROPERTIES:
A. FLEXURAL MODULUS = 4,500 TO 9,400 MPa
PER ASTM TEST D790
B. ELONGATION AT YIELD = 2.3% OR BETTER
PER ASTM TEST D638 TYPE V
7. CAVITY SPEC FOR USE ONLY WITH MOLEX BLADE. TERMINAL PART NUMBERS (EXCEPT P/N'S FOR UNSEALED APPLICATIONS) SPECIFIED ELSEWHERE ON THIS DRAWING



BLADE TERMINAL HOUSING CAVITY



SECTION F-F



BLADE CAVITY ASSEMBLY VIEWS

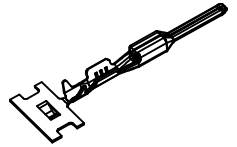
ENTER DESCRIPTION
EC NO: UAU2014-0473
DRAWN BY: JENNINGS01 2013/10/07
CHKD: APPR: BMOSER 2014/01/03
REV

QUALITY SYMBOLS
▽ = 0
▽ = 0
▽ = 0

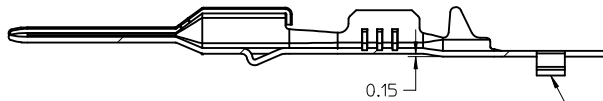
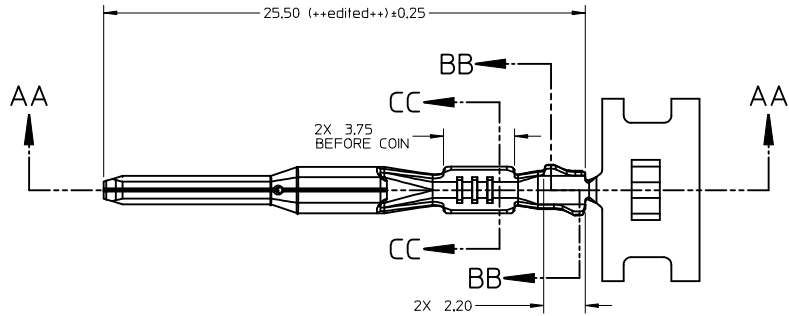
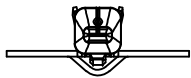
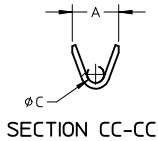
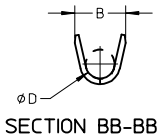
GENERAL TOLERANCES (UNLESS SPECIFIED)
mm INCH
4 PLACES $\pm$ --- $\pm$ ---
3 PLACES $\pm$ --- $\pm$ ---
2 PLACES ± 0.1 $\pm$ ---
1 PLACE ± 0.3 $\pm$ ---
ANGULAR $\pm 3^\circ$
DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY
DRAWN BY: L.PULLIAM DATE: 2006/01/31
CHECKED BY: A.DHIR DATE: 2006/02/01
APPROVED BY: B.MOSER DATE: 2006/02/02
MATERIAL NO.
SEE TABLE
SIZE: C

SCALE
DESIGN UNITS
METRIC
THIRD ANGLE PROJECTION
TITLE
MX150 15MM BLADE
TERMINAL
MOLEX INCORPORATED
DOCUMENT NO.
SD-33000-001
SHEET NO.
4 OF 5
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION



ISO VIEW
SCALE 2:1



SECTION AA-AA

P/N'S 33000-0004/1004
33011-2004/3004

CARRIER BUMP DIRECTION
POINTS DOWN FOR TIN PLATED TERMINALS
POINTS UP FOR PRECIOUS METAL PLATED
TERMINALS

ENTER DESCRIPTION EC NO: UAU2014-0473 DRWN:BJENNINGS01 2013/10/07 CHKD: APPR:BMOSER 2014/01/03 REV	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 5:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
				mm	INCH	DRAWN BY L.PULLIAM	DATE 2006/01/31	TITLE MX150 15MM BLADE TERMINAL		
			4 PLACES	± ---	± ---	CHECKED BY A.DHIR	DATE 2006/02/01			
			3 PLACES	± ---	± ---	APPROVED BY B.MOSER	DATE 2006/02/02			
			2 PLACES	± 0.1	± ---	MATERIAL NO.				
			1 PLACE	± 0.3	± ---	SEE TABLE		SD-33000-001		
ANGULAR ± 3 °			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE C		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

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