

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0340812003

Status:

Active

Overview:

[mx150_sealed_connector_system](#)

Description:

MX150™ Female Cable Seal Terminal, Gold (Au) Plating, 14-16 AWG, Right Reel Payoff, Contact Material Thickness 0.30mm (.012")

Documents:

[Drawing \(PDF\)](#)

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

General

Product Family

Crimp Terminals

Series

34081

Comments

Right Reel Payoff, Cable Seal

Crimp Quality Equipment

Yes

Overview

[mx150_sealed_connector_system](#)

Product Name

MX150™

Physical

Gender

Female

Material - Metal

High Performance Alloy (HPA)

Material - Plating Mating

Gold

Material - Plating Termination

Tin

Packaging Type

Reel

Plating min: Mating (µin)

30.4

Plating min: Mating (µm)

0.76

Plating min: Termination (µin)

100

Plating min: Termination (µm)

2.5

Termination Interface: Style

Crimp or Compression

Wire Insulation Diameter

2.60mm (.102") max.

Wire Size AWG

14, 16

Wire Size mm²

1.5

Electrical

Current - Maximum per Contact

22A

Voltage - Maximum

250V

Material Info

Reference - Drawing Numbers

Sales Drawing

SD-34083-002



image - Reference only

Series

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Halogen-Free

China RoHS



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

34081Series

Use With

[33471](#) Single Row Sealed Connector, [33472](#) Dual Row Sealed Connector, [33476](#) Dual Row Hybrid Sealed Connector, [34062](#) Single Row 2-Way Cable Sealed Connector, [34250](#) Single Row 3-Way Cable Sealed Connector

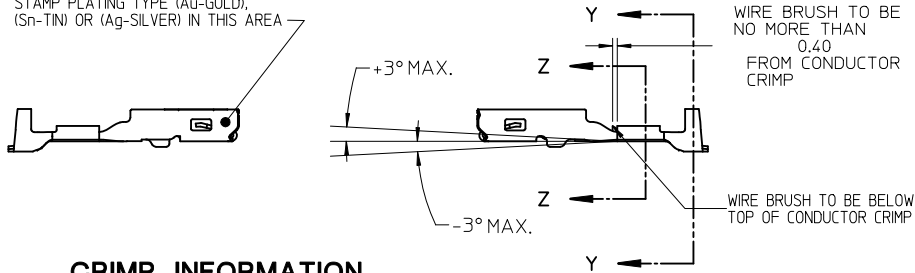
Application Tooling | FAQ

Tooling specifications and manuals are found by selecting the products below. Crimp Height Specifications are then contained in the Application Tooling Specification document.

Global	
Description	Product #
Manual Extraction Tool	0638131500

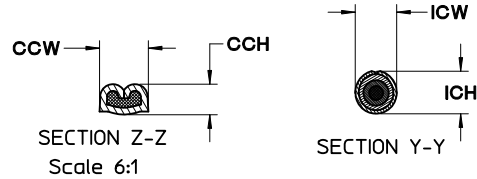
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

STAMP PLATING TYPE (Au-GOLD),
(Sn-TIN) OR (Ag-SILVER) IN THIS AREA



CRIMP INFORMATION

SEE TABLE 1 ON SHEET 2



SILVER PLATING:
BASE LAYER:
ELECTRODEPOSITED DUCTILE SULFATE NICKEL
THICKNESS: 1.25 - 2.25 MICROMETERS

SILVER LAYER:
ZONE A1 AND ZONE A2
ELECTRODEPOSITED PURE SILVER (IMPURITIES 0.5% MAX)
FINISH: SEMI-BRIGHT
THICKNESS: 1.9 - 3.3 MICROMETERS

ANTI-TARNISH TREATMENT FOR SILVER PLATED TERMINALS:
EVABRITE WS

ZONE B:
TIN PLATING: PER MOLEX ES-88 REVISION: REL

THICKNESS 1 (1.25 - 2.25 MICROMETERS)
ELECTRODEPOSITED SULFAMATE DUCTILE NICKEL (BASE LAYER)

THICKNESS 2 (2.50 - 4.00 MICROMETERS) ELECTRODEPOSITED
TIN (100% TIN) MATTE FINISH

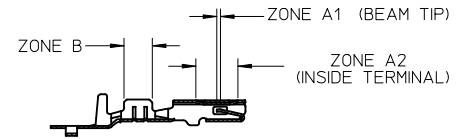
PLATING NOTES:

1. TIN PLATING: (ENTIRE TERMINAL)

THICKNESS 1 (0.25-1.00 MICROMETERS)
ELECTRODEPOSITED ADVANCED TIN BARRIER (BASE LAYER)

THICKNESS 2 (0.50-1.00 MICROMETERS)
ELECTRODEPOSITED REFLOW TIN (100% TIN, NO BRIGHTENERS)

PLATING INFORMATION



SECTION A-A

GOLD PLATING NOTES:

ZONE A1 AND ZONE A2:
PER MOLEX ES-88 REVISION:REL

THICKNESS 1 (1.25 - 2.25 MICROMETERS)
ELECTRODEPOSITED SULFAMATE DUCTILE NICKEL (BASE LAYER)

THICKNESS 2 (0.76 MICROMETERS MINIMUM)
ELECTRODEPOSITED GOLD CAP

ZONE B:
TIN PLATING: PER MOLEX ES-88 REVISION:REL

THICKNESS 1 (1.25-2.25 MICROMETERS)
ELECTRODEPOSITED SULFAMATE DUCTILE NICKEL (BASE LAYER)

THICKNESS 2 (2.50 - 4.00 MICROMETERS) ELECTRODEPOSITED
TIN (100% TIN) MATTE FINISH

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. MATING TERMINAL SHOWN ON MOLEX DRAWING SD-34080-001

2. MATERIAL: ASTM B422, UNS C19025, HR04
THICKNESS: 0.30 mm ±0.01
TEMPER: FULL HARD (REF)
TENSILE: 496 MIN MPA
PLATING: SEE PLATING NOTES

3. MEETS PERFORMANCE SPECIFICATION FOR CABLE TO TERMINAL
ELECTRICAL CRIMPS PER SAE/USCAR-21 (8/2001)

4. MEETS PERFORMANCE STANDARD FOR AUTOMOTIVE ELECTRICAL
CONNECTOR SYSTEMS FOR SAE/USCAR-2, REV. 4 (TEMP CLASS 3)
(4/2001)

5. MEETS ELECTRICAL CONNECTION SYSTEM DESIGN SPECIFICATION
(SDS) REV.11 (5/2002)

6. MEETS FIELD CORRELATED LIFE TEST (FCLT) PER
SAE/USCAR-20 (11/2001)

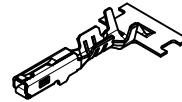
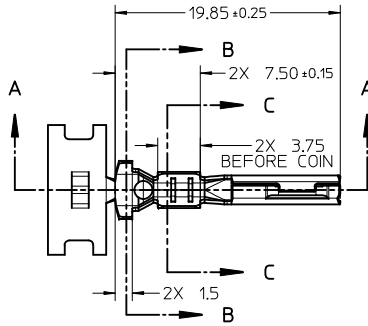
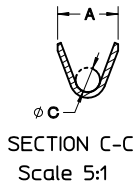
7. INSERTION FORCE WITH INLINE BLADE
AVG FROM PV TESTING = 3.5 N TIN (REFERENCE)
3.1 N GOLD (REFERENCE)

8. REFERENCE PK-31300-516 FOR REEL DIRECTION

9. REFERENCE CS-34083-002 FOR ADDITIONAL
CRIMP INFORMATION

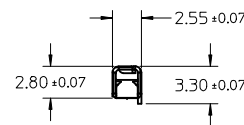
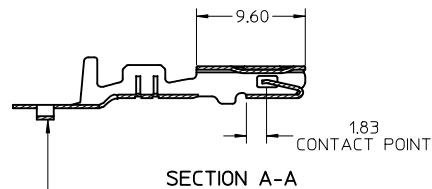
SECTION B-B

Scale 5:1



SCALE 2:1

SEE TABLE 2 ON SHEET 3
FOR CHARTED DIM.



ENTER DESCRIPTION EC NO: UAU2010-0419 DRAWN BY: DRINKFERGUSON CHKD BY: DHIR APPR: BMOSER 2009/12/02 2009/12/02	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 3:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
				mm	INCH	DRAWN BY K. FERGUSON	DATE 4/14/2009	TITLE MX 150 RECEPTACLE CABLE SEAL					
			4 PLACES	± .---	± .---	CHECKED BY A. DHIR	DATE 4/14/2009	MOLEX INCORPORATED					
			3 PLACES	± .---	± .---	APPROVED BY B. MOSER	DATE 4/14/2009						
			2 PLACES	± 0.10	± .---								
			1 PLACE	± 0.3	± .---								
			ANGULAR ± 3 °			MATERIAL NO.		DOCUMENT NO.				SHEET NO.	
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-34083-002				1 OF 3	
						SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

TABLE 1 – TERMINAL CRIMP DIMENSION REFERENCE TABLE											
SUPPLIER PART NO.		PLATING	WIRE SIZE (awg)	WIRE SPECIFICATION	CONDUCTOR CCH (SEC Z-Z) ±0.05	CONDUCTOR CCW (SEC Z-Z) ±0.10	INSULATOR ICH (SEC Y-Y) ±0.10	INSULATOR ICW (SEC Y-Y) ±0.10	WIRE PULL FORCE (N)	OSR CABLE SEAL PART NO.	YAZAKI CABLE SEAL PART NO.
RIGHT PAYOFF	LEFT PAYOFF										
34083-2001	34083-3001	TIN	14	MIL-123A	1.65	2.45	3.95	3.65	268	-	7158-3033-40
			14	MIL-135A1	1.65	2.45	3.80	3.65	268	E-1644-02	-
			16	MIL-123A	1.35	2.45	3.80	3.65	222	E-1644-02	-
34083-2002	34083-3002	TIN	18	MIL-123A	1.25	2.15	3.70	3.55	157	E-1644-00	-
				SAE J1128 (GXL)	1.25	2.15	3.90	3.55	157	E-1644-02	-
			20	MIL-123A	1.15	2.15	3.60	3.55	128	E-1644-00	-
				SAE J1128 (GXL)	1.15	2.15	3.80	3.55	128	E-1644-02	-
				MIL-123A	1.00	1.60	3.50	3.45	88	E-1644-01	-
34083-2003	34083-3003	TIN	22	MIL-123A	1.00	1.60	3.50	3.45	88	E-1644-01	-
34083-2001	34083-3001	TIN	2.00mm ²	JASO D 611(AVSS)	1.60	2.45	3.95	3.65	268	-	7158-3033-40
34083-2001	34083-3001	TIN	1.50mm ²	MIL-126A1	1.40	2.45	3.80	3.65	257	E-1644-02	-
34083-2001	34083-3001	TIN	1.0mm ²	MIL-126A1	1.30	2.15	3.70	3.55	211	E-1644-00	-
34083-2002	34083-3002	TIN	0.75mm ²	MIL-126A1	1.25	2.15	3.60	3.55	142	E-1644-00	-
34083-2003	34083-3003	TIN	0.50mm ²	MIL-126A1	1.10	1.60	3.50	3.45	111	E-1644-01	-
34083-2003	34083-3003	TIN	0.50mm ²	JASO D 611(AVSS)	1.10	1.60	3.50	3.45	111	E-1644-01	-
34081-2003	34081-3003	GOLD	14	MIL-123A	1.65	2.45	3.95	3.65	268	-	7158-3033-40
			14	MIL-135A1	1.65	2.45	3.80	3.65	268	E-1644-02	-
			16	MIL-123A	1.35	2.45	3.80	3.65	222	E-1644-02	-
34081-2004	34081-3004	GOLD	18	MIL-123A	1.25	2.15	3.70	3.55	157	E-1644-00	-
				SAE J1128 (GXL)	1.25	2.15	3.90	3.55	157	E-1644-02	-
			20	MIL-123A	1.15	2.15	3.60	3.55	128	E-1644-00	-
				SAE J1128 (GXL)	1.15	2.15	3.80	3.55	128	E-1644-02	-
				MIL-123A	1.00	1.60	3.50	3.45	88	E-1644-01	-
34081-2005	34081-3005	GOLD	22	MIL-123A	1.00	1.60	3.50	3.45	88	E-1644-01	-
34081-2003	34081-3003	GOLD	2.00mm ²	JASO D 611(AVSS)	1.60	2.45	3.95	3.65	268	-	7158-3033-40
34081-2003	34081-3003	GOLD	1.50mm ²	MIL-126A1	1.40	2.45	3.80	3.65	257	E-1644-02	-
34081-2003	34081-3003	GOLD	1.0mm ²	MIL-126A1	1.30	2.15	3.70	3.55	211	E-1644-00	-
34081-2004	34081-3004	GOLD	0.75mm ²	MIL-126A1	1.25	2.15	3.60	3.55	142	E-1644-00	-
34081-2005	34081-3005	GOLD	0.50mm ²	MIL-126A1	1.10	1.60	3.50	3.45	111	E-1644-01	-
34081-2005	34081-3005	GOLD	0.50mm ²	JASO D 611(AVSS)	1.10	1.60	3.50	3.45	111	E-1644-01	-
34081-4001	34081-5001	SILVER	14	MIL-123A	1.65	2.45	3.95	3.65	268	-	7158-3033-40
			14	MIL-135A1	1.65	2.45	3.80	3.65	268	E-1644-02	-
			16	MIL-123A	1.35	2.45	3.80	3.65	222	E-1644-02	-
34081-4002	34081-5002	SILVER	18	MIL-123A	1.25	2.15	3.70	3.55	157	E-1644-00	-
				SAE J1128 (GXL)	1.25	2.15	3.90	3.55	157	E-1644-02	-
			20	MIL-123A	1.15	2.15	3.60	3.55	128	E-1644-00	-
				SAE J1128 (GXL)	1.15	2.15	3.80	3.55	128	E-1644-02	-
				MIL-123A	1.00	1.60	3.50	3.45	88	E-1644-01	-
34081-4003	34081-5003	SILVER	22	MIL-123A	1.00	1.60	3.50	3.45	88	E-1644-01	-
34081-4001	34081-5001	SILVER	2.00mm ²	JASO D 611(AVSS)	1.60	2.45	3.95	3.65	268	-	7158-3033-40
34081-4001	34081-5001	SILVER	1.50mm ²	MIL-126A1	1.40	2.45	3.80	3.65	257	E-1644-02	-
34081-4001	34081-5001	SILVER	1.0mm ²	MIL-126A1	1.30	2.15	3.70	3.55	211	E-1644-00	-
34081-4002	34081-5002	SILVER	0.75mm ²	MIL-126A1	1.25	2.15	3.60	3.55	142	E-1644-00	-
34081-4003	34081-5003	SILVER	0.50mm ²	MIL-126A1	1.10	1.60	3.50	3.45	111	E-1644-01	-
34081-4003	34081-5003	SILVER	0.50mm ²	JASO D 611(AVSS)	1.10	1.60	3.50	3.45	111	E-1644-01	-

ENTER DESCRIPTION IEC NO. 0A02010-0419 DRAWN BY CHKD BY APPR BY REV A5	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		4 PLACES ± ---		DRAWN BY K. FERGUSON		DATE 4/14/2009	TITLE MX 150 RECEPTACLE CABLE SEAL			
		3 PLACES ± ---		CHECKED BY A. DHIR		DATE 4/14/2009				
		2 PLACES ± 0.10		APPROVED BY B. MOSER		DATE 4/14/2009	MOLEX INCORPORATED			
		1 PLACE ± 0.3								
		ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO. 2 OF 3		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE D		SEE TABLE				
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										

CRIMP TOOL INFORMATION

SEE TABLE 2 FOR TABLED DIMENSIONS

INSULATOR PUNCH
SCALE 4:1

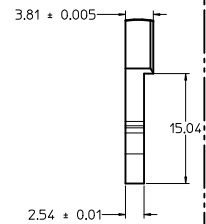
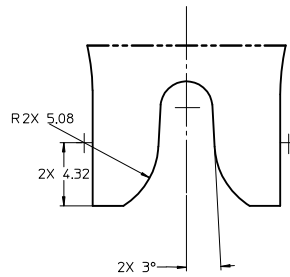
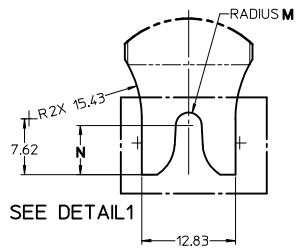
DETAIL1
SCALE 8:1

RIGHT VIEW

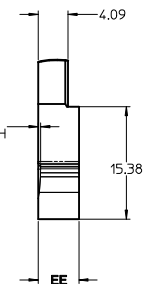
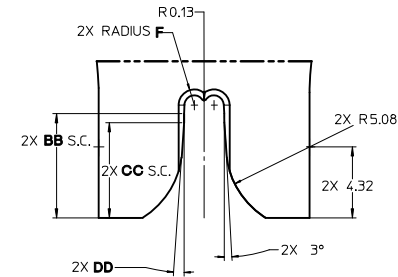
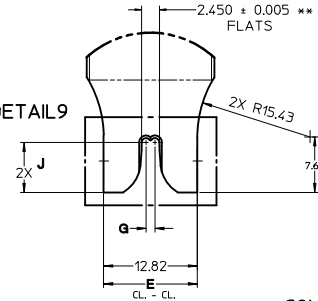
CONDUCTOR PUNCH
SCALE 4:1

DETAIL9
SCALE 9:1

RIGHT VIEW



SEE DETAIL9



INSULATOR ANVIL

RIGHT VIEW

RIGHT VIEW

CONDUCTOR ANVIL
RADIUS W

** 14-16 AWG, 150mm2
& 2.0mm2 ONLY

PARTIAL1

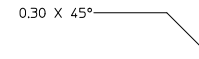
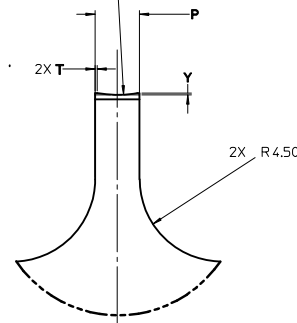
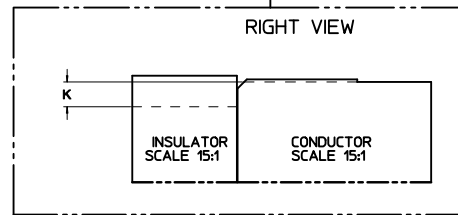
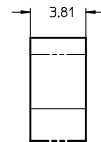
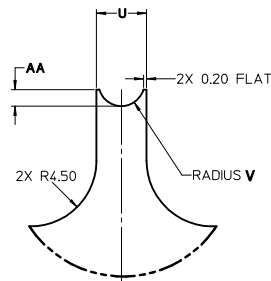


TABLE 2 - TERMINAL GRIP/CRIMP TOOL DIMENSION REFERENCE TABLE

SUPPLIER PART NUMBER		PLATING (STAMPING)	WIRE APPLICATION		A	B	C	D	E	F	G	J	K	M	N	P	T	U	V	W	Y	AA	BB	CC	DD	EE
RIGHT PAYOFF	LEFT PAYOFF		SAE (AWG)	METRIC (mm²)	+0.3	+0.20	+0.3	+0.15	+0.01	+0.005	+0.005	+0.05	+0.01	+0.005	+0.10	+0.005	+0.005	+0.005	+0.10	+0.01	+0.01	+0.10	+0.01	+0.01	+0.01	+0.10
34083-2001	34083-3001	TIN	14	2.0	3.6	5.00	1.7	2.90	12.82	0.600	1.194	6.86	0.90	1.778	6.73	2.438	0.12	3.429	1.575	6.11	0.10	1.13	6.34	5.79	4°	5.59
			16	1.5	3.6	5.00	1.7	2.90	12.82	0.600	1.194	6.86	0.90	1.778	6.73	2.438	0.12	3.429	1.575	6.11	0.10	1.13	6.34	5.79	4°	5.59
34083-2002	34083-3002	TIN	18	1.0	3.3	5.00	1.3	2.90	12.57	0.556	0.963	7.34	0.70	1.753	6.73	2.085	0.33	3.378	1.699	1.94	0.14	0.88	-	-	-	3.81
			20	0.75	3.3	5.00	1.3	2.90	12.57	0.556	0.963	7.34	0.70	1.753	6.73	2.085	0.33	3.378	1.699	1.94	0.14	0.88	-	-	-	3.81
34083-2003	34083-3003	TIN	22	0.5	2.5	4.85	0.9	2.90	11.92	0.414	0.714	6.27	0.55	1.737	7.06	1.576	0.26	3.327	1.524	2.00	0.07	1.08	-	-	-	3.81
34081-2003	34081-3003	GOLD	14	2.0	3.6	5.00	1.7	2.90	12.82	0.600	1.194	6.86	0.90	1.778	6.73	2.438	0.12	3.429	1.575	6.11	0.10	1.13	6.34	5.79	4°	5.59
			16	1.5	3.6	5.00	1.7	2.90	12.82	0.600	1.194	6.86	0.90	1.778	6.73	2.438	0.12	3.429	1.575	6.11	0.10	1.13	6.34	5.79	4°	5.59
34081-2004	34081-3004	GOLD	18	1.0	3.3	5.00	1.3	2.90	12.57	0.556	0.963	7.34	0.70	1.753	6.73	2.085	0.33	3.378	1.699	1.94	0.14	0.88	-	-	-	3.81
			20	0.75	3.3	5.00	1.3	2.90	12.57	0.556	0.963	7.34	0.70	1.753	6.73	2.085	0.33	3.378	1.699	1.94	0.14	0.88	-	-	-	3.81
34081-2005	34081-3005	GOLD	22	0.5	2.5	4.85	0.9	2.90	11.92	0.414	0.714	6.27	0.55	1.737	7.06	1.576	0.26	3.327	1.524	2.00	0.07	1.08	-	-	-	3.81
34081-4001	34081-5001	SILVER	14	2.0	3.6	5.00	1.7	2.90	12.82	0.600	1.194	6.86	0.90	1.778	6.73	2.438	0.12	3.429	1.575	6.11	0.10	1.13	6.34	5.79	4°	5.59
			16	1.5	3.6	5.00	1.7	2.90	12.82	0.600	1.194	6.86	0.90	1.778	6.73	2.438	0.12	3.429	1.575	6.11	0.10	1.13	6.34	5.79	4°	5.59
34081-4002	34081-5002	SILVER	18	1.0	3.3	5.00	1.3	2.90	12.57	0.556	0.963	7.34	0.70	1.753	6.73	2.085	0.33	3.378	1.699	1.94	0.14	0.88	-	-	-	3.81
			20	0.75	3.3	5.00	1.3	2.90	12.57	0.556	0.963	7.34	0.70	1.753	6.73	2.085	0.33	3.378	1.699	1.94	0.14	0.88	-	-	-	3.81
34081-4003	34081-5003	SILVER	22	0.5	2.5	4.85	0.9	2.90	11.92	0.414	0.714	6.27	0.55	1.737	7.06	1.576	0.26	3.327	1.524	2.00	0.07	1.08	-	-	-	3.81

ENTER DESCRIPTION EC NO. 140200-049 DRAWN BY X. FERGUSON CHKD. A. DHIR APPR. B. NOSER DATE 2009/12/02 2009/04/15 2009/12/02 A5	QUALITY SYMBOLS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± 0.005 ± 0.0005 3 PLACES ± 0.005 ± 0.0005 2 PLACES ± 0.01 ± 0.001 1 PLACE ± 0.3 ± 0.01 ANGULAR ± 0.5°		DIMENSION STYLE MM ONLY SCALE 1:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION		APPROVED BY B. NOSER DATE 4/14/2009 MOLEX INCORPORATED		SD-34083-002 SHEET NO. 3 OF 3	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		MOLEX INCORPORATED	
		MOLEX INCORPORATED		MOLEX INCORPORATED		MOLEX INCORPORATED		MOLEX INCORPORATED	
		MOLEX INCORPORATED		MOLEX INCORPORATED		MOLEX INCORPORATED		MOLEX INCORPORATED	