This document was generated on 05/19/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0330122023
Status: Active
Overview: mx150_sealed_connector_system
Description: MX150™ Female Terminal, Tin (Sn) Plating, 22 AWG, Right Reel Payoff, Large Polarization Rib, Contact Material Thickness 0.30mm (.012")



Series image - Reference only

Documents:
Drawing (PDF)
RoHS Certificate of Compliance (PDF)

General

Product Family	Crimp Terminals
Series	33012
Comments	Right Reel Payoff, Large Polarization Rib
Crimp Quality Equipment	Yes
Overview	mx150_sealed_connector_system
Product Name	MX150™

Physical

Gender	Female
Material - Metal	High Performance Alloy (HPA)
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Packaging Type	Reel
Plating min: Mating (µin)	20.00
Plating min: Mating (µm)	0.500
Plating min: Termination (µin)	20.00
Plating min: Termination (µm)	0.50
Termination Interface: Style	Crimp or Compression
Wire Insulation Diameter	2.60mm (.102") max.
Wire Size AWG	22
Wire Size mm²	0.5

Electrical

Current - Maximum per Contact	22A
Voltage - Maximum	250V

Material Info

Reference - Drawing Numbers

Sales Drawing	SD-33012-002

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free Status
Not Reviewed

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
33012Series

Use With
33472 Dual Row Housing, 33476 Hybrid Housing, 33471 Single Row Housing

Application Tooling | **FAQ**

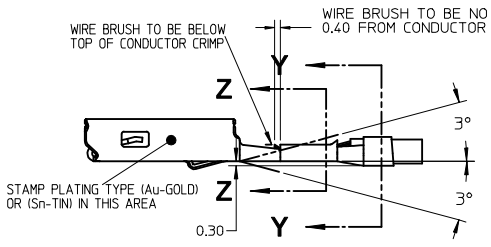
Tooling specifications and manuals are found by selecting the products below. Crimp Height Specifications are then contained in the Application Tooling Specification document.

Global

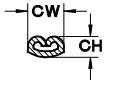
Description	Product #
Manual Extraction Tool	0638131500
Hand Crimp Tool, 18-22AWG	0638116000
Hand Crimp Tool, Metric 0.05 and 0.75	0638116200

This document was generated on 05/19/2010

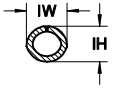
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



0.30mm GRIP STEP
ALL TERMINALS
EXCEPT 22GA TERMINAL
SCALE 4:1



SECTION Z-Z
SCALE 5:1



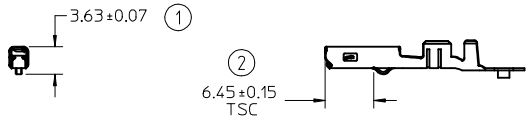
SECTION Y-Y
SCALE 5:1



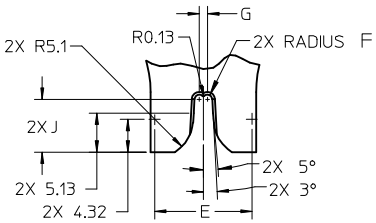
0.00mm GRIP STEP
22GA./0.50mm²/0.35mm²
SCALE 5:1

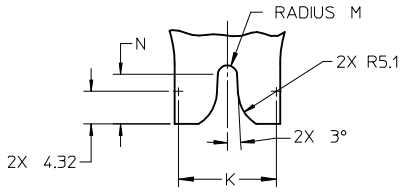
CRIMP INFORMATION

SEE NOTE 14



DIMENSIONS FOR LARGE POLARIZATION RIB TERMINAL ONLY

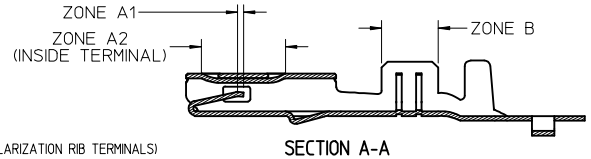




CRIMP TOOL INFORMATION

SEE TABLE 2 FOR TABLED DIMENSIONS

PLATING INFORMATION



SECTION A-A

PLATING NOTES: (FOR SMALL AND LARGE POLARIZATION RIB TERMINALS)

1. PRECIOUS METAL PLATING:

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

BASE LAYER: ELECTRODEPOSITED DUCTILE SULFAMATE NICKEL
THICKNESS: 1.25 - 2.25 MICROMETERS

PRECIOUS LAYER: GOLD OR SILVER

GOLD: ELECTRODEPOSITED GOLD
THICKNESS: 0.76 MICROMETERS MINIMUM

SILVER: ELECTRODEPOSITED PURE SILVER (0.5% MAX IMPURITIES)
THICKNESS: 1.9 - 3.3 MICROMETERS
FINISH: SEMI-BRIGHT
ANTI-TARNISH TREATMENT FOR SILVER PLATING
EVABRITE WS

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

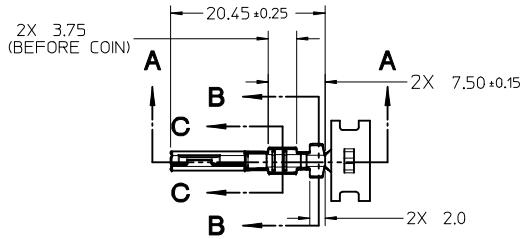
BASE LAYER: ELECTRODEPOSITED DUCTILE SULFAMATE NICKEL
THICKNESS: 1.25-2.25 MICROMETERS

TIN LAYER: ELECTRODEPOSITED 100% TIN MATTE FINISH
THICKNESS: 2.50 - 4.00 MICROMETERS

2. TIN PLATING: (ENTIRE TERMINAL)

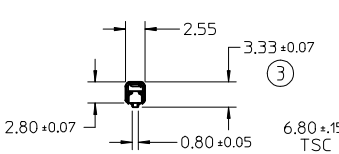
BASE LAYER: ELECTRODEPOSITED ADVANCED TIN BARRIER
THICKNESS: 0.25-1.00 MICROMETERS

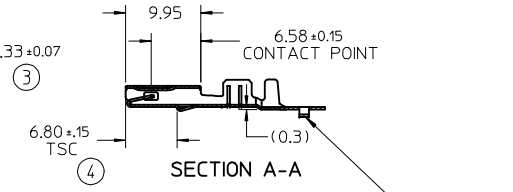
TIN LAYER: ELECTRODEPOSITED REFLOW TIN, 100% TIN
NO BRIGHTENERS
THICKNESS: 0.50-1.00 MICROMETERS





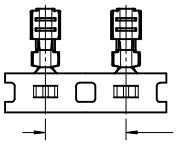
SCALE 1:1

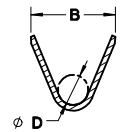




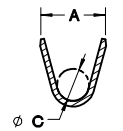
SECTION A-A

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





SECTION B-B
SCALE 5:1



SECTION C-C
SCALE 5:1

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. MATING TERMINAL SHOWN ON SD-33000-001
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 ABOVE
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. MEETS WIRING COMPONENT DESIGN GUIDLINES SAE/USCAR-12 REV 2 (12/2001)
8. TSC ON A DIMENSION TO BE INTERPRETED AS DISTANCE TO A THEORETICAL SHARP CORNER AS IF THE RADIUS WERE NOT PRESENT
9. DRAWING CONFORMS TO AVP-(T401/T406)-001 REVISION A DATED 2/16/99
10. REFERENCE 97BG-14474-AAB FOR LARGE POLARIZATION RIB CAVITY SPECIFICATION
11. INSERTION FORCE (TIN) AVG. FROM PV TESTING =
    3.8N LARGE POLARIZATION RIB
    3.9N SMALL POLARIZATION RIB
    (REFERENCE)
12. ALL DIMENSIONS EXCEPT ①②③&④ARE COMMON TO BOTH SMALL AND LARGE POLARIZATION RIB TERMINALS
13. REFERENCE PK-31300-516 FOR REEL DIRECTION
14. REFERENCE CS-33012-002 FOR ADDITIONAL CRIMP INFORMATION

ENTER DESCRIPTION
EC NO: UAU2010-0107
DRWN:KFERGUSON 2009/08/19
CHKD:A. DHIR
APPR:BMOSER 2009/08/20
DESCRIPTION
B1
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± 0.005	± ---
2 PLACES	± 0.10	± ---
1 PLACE	± 0.3	± ---
ANGULAR ± 3 °		

DIMENSION STYLE: MM ONLY
SCALE: 2:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: L. PULLIAM DATE: 2005/06/21
CHECKED BY: A. DHIR DATE: 2005/06/21
APPROVED BY: B. MOSER DATE: 2005/06/22
MATERIAL NO.: SEE TABLE

TITLE: MX150 RECEPTACLE TERMINAL
MOLEX INCORPORATED
DOCUMENT NO.: SD-33012-002
SHEET NO.: 1 OF 5
SIZE: C

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

TABLE 1 - TERMINAL CRIMP DIM. REFERENCE TABLE

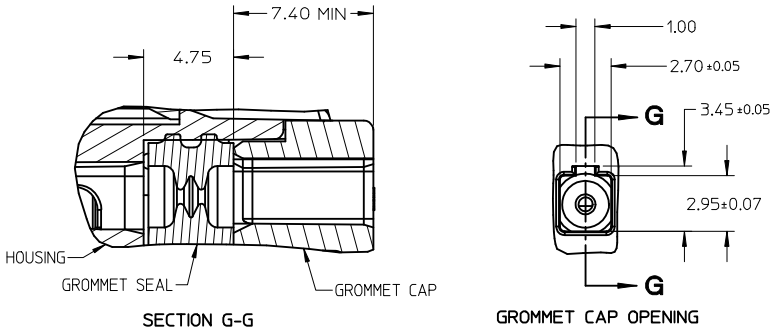
SUPPLIER PART NO.		FORD PART NO.	PLATING	WIRE SIZE (awg)	WIRE SPECIFICATION	CONDUCTOR CH (SEC Z-Z) ±0.05 mm	CONDUCTOR CW (SEC Z-Z) ±0.10 mm	INSULATOR IH (SEC Y-Y) ±0.10 mm	INSULATOR IW (SEC Y-Y) ±0.10 mm	WIRE PULL FORCE (N)
SMALL POLARIZATION RIB										
RIGHT PAYOFF	LEFT PAYOFF									
33012-2001	33012-3001	7C3T-14474-EA	TIN	14	MIL-123A	1.65	2.45	2.90	2.75	268
					MIL-135A1	1.65	2.45	2.70	2.60	268
				16	MIL-123A	1.35	2.45	2.40	2.60	222
33012-2002	33012-3002	7C3T-14474-DA	TIN	18	MIL-123A	1.25	2.15	2.00	2.30	157
					SAE J1128 (GXL)	1.25	2.15	2.40	2.60	158
				20	MIL-123A	1.15	2.15	1.90	2.10	128
					HIFLON WIRE[1]	1.15	2.15	1.90	2.10	135
					SAE J1128 (GXL)	1.15	2.15	2.00	2.30	105
33012-2003	33012-3003	7C3T-14474-CA	TIN	22	MIL-123A	1.00	1.60	1.85	1.90	88
33012-2001	33012-3001	7C3T-14474-EA	TIN	2.00mm²	JASO D 611 (AVSS)	1.60	2.45	2.90	2.75	231
				1.50mm²	MIL-126A1	1.40	2.45	2.60	2.60	257
33012-2002	33012-3002	7C3T-14474-DA	TIN	1.00mm²	MIL-126A1	1.30	2.15	2.00	2.30	211
				0.75mm²	MIL-126A1	1.25	2.15	1.95	2.10	142
33012-2003	33012-3003	7C3T-14474-CA	TIN	0.50mm²	MIL-126A1	1.10	1.60	1.80	1.90	111
					JASO D 611 (AVSS)	1.10	1.60	1.85	1.90	125
33012-2003*	33012-3003*	7C3T-14474-CA*	TIN	0.35mm²	WSK-1A348-A2	0.95	1.60	1.70	1.90	50
33001-2003	33001-3003	7C3T-14474-HA	GOLD	14	MIL-123A	1.65	2.45	2.90	2.75	268
					MIL-135A1	1.65	2.45	2.70	2.60	268
				16	MIL-123A	1.35	2.45	2.40	2.60	222
33001-2004	33001-3004	7C3T-14474-GA	GOLD	18	MIL-123A	1.25	2.15	2.00	2.30	157
					SAE J1128 (GXL)	1.25	2.15	2.40	2.60	158
				20	MIL-123A	1.15	2.15	1.90	2.10	128
					HIFLON WIRE[1]	1.15	2.15	1.90	2.10	135
					SAE J1128 (GXL)	1.15	2.15	2.00	2.30	105
33001-2005	33001-3005	7C3T-14474-FA	GOLD	22	MIL-123A	1.00	1.60	1.85	1.90	88
33001-2003	33001-3003	7C3T-14474-HA	GOLD	2.00mm²	JASO D 611 (AVSS)	1.60	2.45	2.90	2.75	231
				1.50mm²	MIL-126A1	1.40	2.45	2.60	2.60	257
33001-2004	33001-3004	7C3T-14474-GA	GOLD	1.00mm²	MIL-126A1	1.30	2.15	2.00	2.30	211
				0.75mm²	MIL-126A1	1.25	2.15	1.95	2.10	142
33001-2005	33001-3005	7C3T-14474-FA	GOLD	0.50mm²	MIL-126A1	1.10	1.60	1.80	1.90	111
					JASO D 611 (AVSS)	1.10	1.60	1.85	1.90	125
33001-2005*	33001-3005*	7C3T-14474-FA*	GOLD	0.35mm²	WSK-1A348-A2	0.95	1.60	1.70	1.90	50
33001-4001	33001-5001	7U5T-14474-UA	SILVER**	14	MIL-123A	1.65	2.45	2.90	2.75	268
					MIL-135A1	1.65	2.45	2.70	2.60	268
				16	MIL-123A	1.35	2.45	2.40	2.60	222
33001-4002	33001-5002	7U5T-14474-TA	SILVER**	18	MIL-123A	1.25	2.15	2.00	2.30	157
					SAE J1128 (GXL)	1.25	2.15	2.40	2.60	158
				20	MIL-123A	1.15	2.15	1.90	2.10	128
					HIFLON WIRE[1]	1.15	2.15	1.90	2.10	135
					SAE J1128 (GXL)	1.15	2.15	2.00	2.30	105
33001-4003	33001-5003	7U5T-14474-SA	SILVER**	22	MIL-123A	1.00	1.60	1.85	1.90	88
33001-4001	33001-5001	7U5T-14474-UA	SILVER**	2.00mm²	JASO D 611 (AVSS)	1.60	2.45	2.90	2.75	231
				1.50mm²	MIL-126A1	1.40	2.45	2.60	2.60	257
33001-4002	33001-5002	7U5T-14474-TA	SILVER**	1.00mm²	MIL-126A1	1.30	2.15	2.00	2.30	211
				0.75mm²	MIL-126A1	1.25	2.15	1.95	2.10	142
33001-4003	33001-5003	7U5T-14474-SA	SILVER**	0.50mm²	MIL-126A1	1.10	1.60	1.80	1.90	111
					JASO D 611 (AVSS)	1.10	1.60	1.85	1.90	125
33001-4003*	33001-5003*	7U5T-14474-SA*	SILVER**	0.35mm²	WSK-1A348-A2	0.95	1.60	1.70	1.90	50
LARGE POLARIZATION RIB										
33012-2021	33012-3021	7C3T-14474-LA	TIN	14	MIL-123A	1.65	2.45	2.90	2.75	268
					MIL-135A1	1.65	2.45	2.70	2.60	268
				16	MIL-123A	1.35	2.45	2.40	2.60	222
33012-2022	33012-3022	7C3T-14474-KA	TIN	18	MIL-123A	1.25	2.15	2.00	2.30	157
					SAE J1128 (GXL)	1.25	2.15	2.40	2.60	158
				20	MIL-123A	1.15	2.15	1.90	2.10	128
					HIFLON WIRE[1]	1.15	2.15	1.90	2.10	135
					SAE J1128 (GXL)	1.15	2.15	2.00	2.30	105
33012-2023	33012-3023	7C3T-14474-JA	TIN	22	MIL-123A	1.00	1.60	1.85	1.90	88
33012-2021	33012-3021	7C3T-14474-LA	TIN	2.00mm²	JASO D 611 (AVSS)	1.60	2.45	2.90	2.75	231
				1.50mm²	MIL-126A1	1.40	2.45	2.60	2.60	257
33012-2022	33012-3022	7C3T-14474-KA	TIN	1.00mm²	MIL-126A1	1.30	2.15	2.00	2.30	211
				0.75mm²	MIL-126A1	1.25	2.15	1.95	2.10	142
33012-2023	33012-3023	7C3T-14474-JA	TIN	0.50mm²	MIL-126A1	1.10	1.60	1.80	1.90	111
					JASO D 611 (AVSS)	1.10	1.60	1.85	1.90	125
33012-2023*	33012-3023*	7C3T-14474-JA*	TIN	0.35mm²	WSK-1A348-A2	0.95	1.60	1.70	1.90	50
33001-2021	33001-3021	7C3T-14474-PA	GOLD	14	MIL-123A	1.65	2.45	2.90	2.75	268
					MIL-135A1	1.65	2.45	2.70	2.60	268
				16	MIL-123A	1.35	2.45	2.40	2.60	222
33001-2022	33001-3022	7C3T-14474-NA	GOLD	18	MIL-123A	1.25	2.15	2.00	2.30	157
					SAE J1128 (GXL)	1.25	2.15	2.40	2.60	158
				20	MIL-123A	1.15	2.15	1.90	2.10	128
					HIFLON WIRE[1]	1.15	2.15	1.90	2.10	135
					SAE J1128 (GXL)	1.15	2.15	2.00	2.30	105
33001-2023	33001-3023	7C3T-14474-MA	GOLD	22	MIL-123A	1.00	1.60	1.85	1.90	88
33001-2021	33001-3021	7C3T-14474-PA	GOLD	2.00mm²	JASO D 611 (AVSS)	1.60	2.45	2.90	2.75	231
				1.50mm²	MIL-126A1	1.40	2.45	2.60	2.60	257
33001-2022	33001-3022	7C3T-14474-NA	GOLD	1.00mm²	MIL-126A1	1.30	2.15	2.00	2.30	211
				0.75mm²	MIL-126A1	1.25	2.15	1.95	2.10	142
33001-2023	33001-3023	7C3T-14474-MA	GOLD	0.50mm²	MIL-126A1	1.10	1.60	1.80	1.90	111
					JASO D 611 (AVSS)	1.10	1.60	1.85	1.90	125
33001-2023*	33001-3023*	7C3T-14474-MA*	GOLD	0.35mm²	WSK-1A348-A2	0.95	1.60	1.70	1.90	50
33001-4021	33001-5021	7U5T-14474-RA	SILVER**	14	MIL-123A	1.65	2.45	2.90	2.75	268
					MIL-135A1	1.65	2.45	2.70	2.60	268
				16	MIL-123A	1.35	2.45	2.40	2.60	222
33001-4022	33001-5022	7U5T-14474-PA	SILVER**	18	MIL-123A	1.25	2.15	2.00	2.30	157
					SAE J1128 (GXL)	1.25	2.15	2.40	2.60	158
				20	MIL-123A	1.15	2.15	1.90	2.10	128
					HIFLON WIRE[1]	1.15	2.15	1.90	2.10	135
					SAE J1128 (GXL)	1.15	2.15	2.00	2.30	105
33001-4023	33001-5023	7U5T-14474-NA	SILVER**	22	MIL-123A	1.00	1.60	1.85	1.90	88
33001-4021	33001-5021	7U5T-14474-RA	SILVER**	2.00mm²	JASO D 611 (AVSS)	1.60	2.45	2.90	2.75	231
				1.50mm²	MIL-126A1	1.40	2.45	2.60	2.60	257
33001-4022	33001-5022	7U5T-14474-PA	SILVER**	1.00mm²	MIL-126A1	1.30	2.15	2.00	2.30	211
				0.75mm²	MIL-126A1	1.25	2.15	1.95	2.10	142

LARGE POLARIZATION RIB										
RIGHT PAYOFF	LEFT PAYOFF									
33001-4023	33001-5023	7U5T-14474-NA	SILVER**	0.50mm²	MIL-126A1	1.10	1.60	1.80	1.90	111
					JASO D 611 (AVSS)	1.10	1.60	1.85	1.90	125
33001-4023*	33001-5023*	7U5T-14474-NA*	SILVER**	0.35mm²	WSK-1A348-A2	0.95	1.60	1.70	1.90	50

[1] HIFLON WIRE:
CORE WIRE: STAINLESS STEEL, SUS Ø0.14, 7 STRANDS
SURROUNDING WIRE: NICKEL (Ni) PLATED COPPER (Cu) Ø0.14, 30 STRANDS
INSULATOR: PTFE

* 0.35mm² WIRE MUST NOT BE USED IN MX150 SEALED CONNECTOR SYSTEMS

** SILVER PLATED TERMINALS NOT TO BE USED IN CONNECTOR SYSTEMS WITH CIRCUIT COUNTS HIGHER THAN 8 DUE TO HIGHER CONNECTOR MATE/UNMATE FORCE



GROMMET SEAL / CAP CONFIGURATION TO MODIFY LARGE POLARIZATION RIB CAVITY TO ACCEPT SMALL POLARIZATION RIB APPLICATIONS

ENTER DESCRIPTION
EC NO: UAU2010-0107 2009/08/18
DRWN:KFERGUSON 2009/08/19
CH'KD:A. DHIR 2009/08/20
APPR:BMOSER
DESCRIPTION
B1
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± 0.005	± ---
2 PLACES	± 0.10	± ---
1 PLACE	± 0.3	± ---
ANGULAR ± 3 °		

DIMENSION STYLE: MM ONLY
SCALE
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: L. PULLIAM DATE: 2005/06/21
CHECKED BY: A. DHIR DATE: 2005/06/21
APPROVED BY: B. MOSER DATE: 2005/06/22

TITLE: MX150 RECEPTACLE TERMINAL

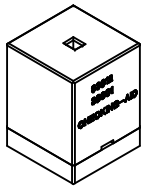
MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-33012-002
SHEET NO.: 2 OF 5

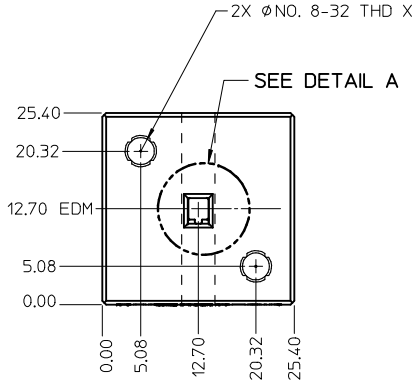
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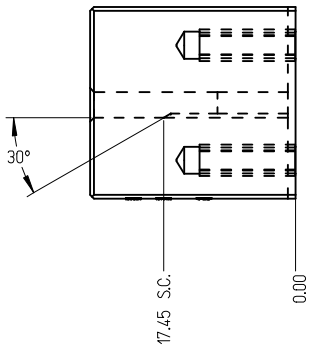
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

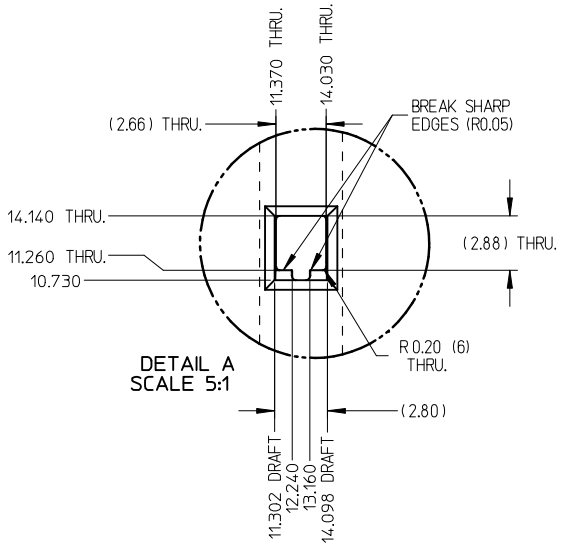
THIS CHECKING - AID IS FOR SMALL POLARIZATION RIB TERMINALS ONLY



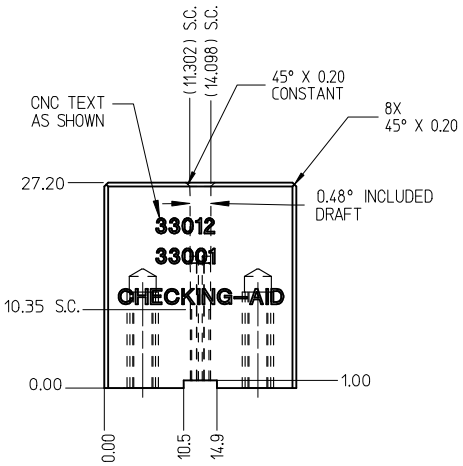
CHECKING - AID ASSEMBLY
SCALE 1:1



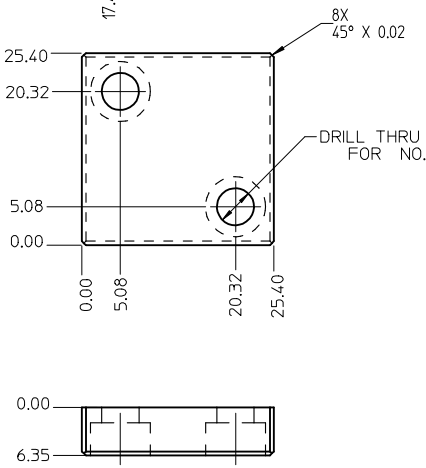




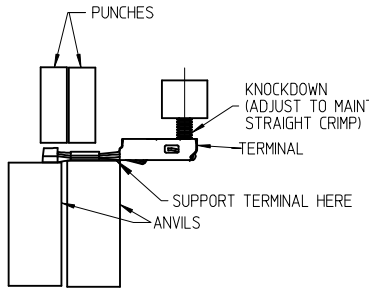
DETAIL A
SCALE 5:1



CHECKING - AID
UPPER



CHECKING - AID
LOWER



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 CRIMPED TERMINAL (AND UP TO 5 mm OF WIRE PAST THE INSULATOR CUTOFF TAB) MUST FIT FREELY INTO THE CHECKING-AID SHOWN ON THIS PAGE

3. FOR OTHER MECHANICAL REQUIREMENTS ON CRIMPED TERMINALS, REFER TO SAE/USCAR-21 (5-13-02) SECTIONS 4.2 (VISUAL INSPECTION), 4.2 (CROSS SECTION ANALYSIS) AND 4.4 (CONDUCTOR CRIMP PULLOUT FORCE)

UPPER & LOWER
CHECKING-AID
A2 TOOL STEEL
HARDEN & GRIND
ROCKWELL "C" 56-58

ENTER DESCRIPTION
EC NO: UAU2010-0107 2009/08/18
DRWN:KFERGUSON 2009/08/19
CH'KD:A.DHIR 2009/08/20
APPR:BMOSER
DESCRIPTION
B1
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± 0.005	± ---
2 PLACES	± 0.10	± ---
1 PLACE	± 0.3	± ---
ANGULAR ± 3 °		

DIMENSION STYLE: MM ONLY
SCALE: 2:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

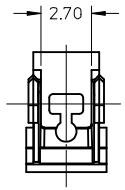
DRAWN BY	L. PULLIAM	DATE 2005/06/21
CHECKED BY	A. DHIR	DATE 2005/06/21
APPROVED BY	B. MOSER	DATE 2005/06/22

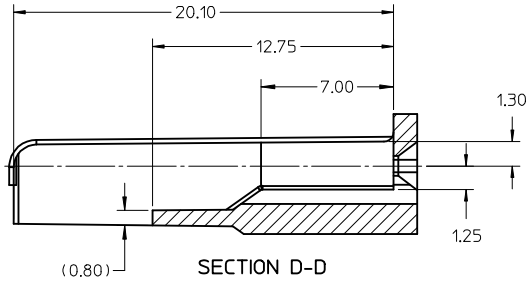
TITLE: MX150 RECEPTACLE TERMINAL

MOLEX INCORPORATED

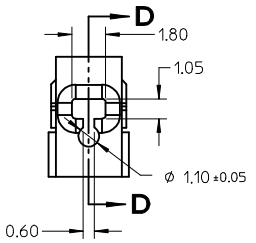
MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-33012-002
SHEET NO.: 3 OF 5
SIZE: C

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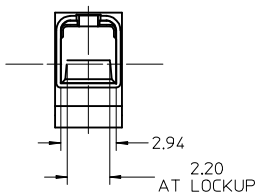


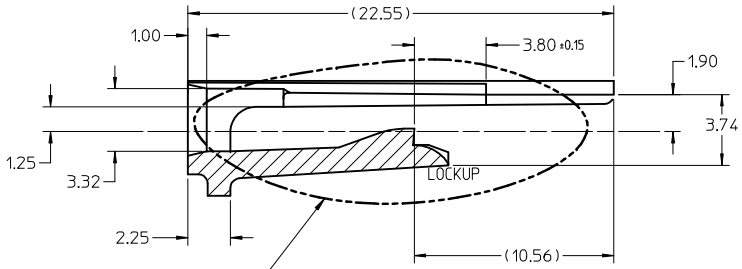
SECTION D-D



NOTES: UNLESS OTHERWISE SPECIFIED

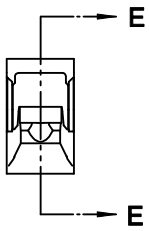
1. TOLERANCES: LINEAR ±0.10
   ANGULAR ±3°
2. ALL DRAFT WITHIN TOLERANCE.
3. MAX RADII ON ALL CORNERS SHOWN SHARP: 0.10
4. MAX FLASH PERMISSIBLE: 0.1
5. EJECTOR PIN MARKS PERMISSIBLE IF FLUSH TO 0.25 BELOW SURFACE.
6. MATERIAL: HOUSING/FINGER SPECIFICATION ENGINEERED FOR MATERIAL WITH THE FOLLOWING PROPERTIES:
   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 RECEPTACLE TERMINAL PART NUMBERS SPECIFIED ELSEWHERE ON THIS DRAWING

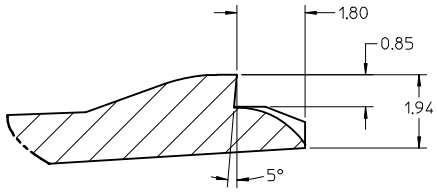




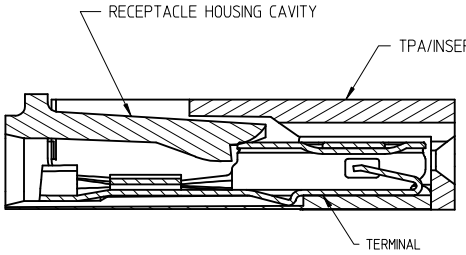
SEE DETAIL Z

SECTION E-E



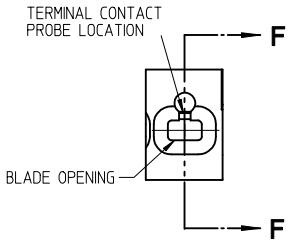


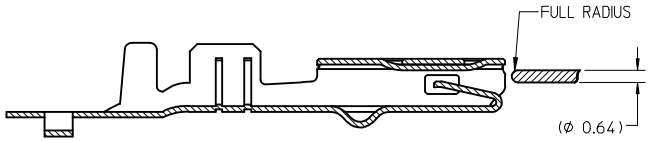
DETAIL Z
SCALE 20:1

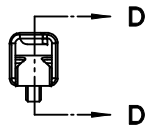


SECTION F-F

RECEPTACLE CAVITY ASSEMBLED VIEWS
FOR SMALL POLARIZATION RIB APPLICATIONS
FIG. 1







SECTION D-D
FOR LARGE POLARIZATION RIB APPLICATIONS
FIG. 2

PROBING DOWN THE
THROAT MUST USE
THIS TERMINAL PROBE

PROBE PIN DETAILS:
MANUFACTURER: LONE STAR INDUSTRIAL
PART NUMBER: LS054R-403-N-4.6
PIN DIAMETER: 0.025 IN (0.64mm)
TIP SHAPE: SPHERICAL
TEL: 915-779-7255

PREFERRED PROBING LOCATION
IS NOT ON SPRING MEMBER

IF ELECTRICAL CONTINUITY PROBE
TOUCHES SPRING MEMBER USE
PROBING AS SHOWN IN FIG. 2

ENTER DESCRIPTION
EC NO: UAU2010-0107 2009/08/18
DRWN:KFERGUSON 2009/08/19
CHKD:A.DHIR 2009/08/20
APPR:BMOSER
DESCRIPTION
B1
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± 0.005	± ---
2 PLACES	± 0.10	± ---
1 PLACE	± 0.3	± ---
ANGULAR ± 3 °		

DIMENSION STYLE: MM ONLY
SCALE: 5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY	L. PULLIAM	DATE 2005/06/21
CHECKED BY	A. DHIR	DATE 2005/06/21
APPROVED BY	B. MOSER	DATE 2005/06/22

TITLE: MX150 RECEPTACLE TERMINAL

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-33012-002
SHEET NO.: 4 OF 5

SIZE C

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

TABLE 2 - TERMINAL GRIP/CRIMP TOOL DIM. REFERENCE TABLE

SUPPLIER PART NO.		FORD PART NO.	PLATING (STAMPING)	WIRE APPLICATION		WIRE SPECIFICATION	A±0.30	B±0.30	C±0.30	D±0.30	E±0.005	F±0.005	G±0.005	J±0.005	K±0.005	M±0.005	N±0.005	P±0.005	R±0.005	U±0.005	V±0.005
SMALL POLARIZATION RIB				SAE	METRIC																
RIGHT PAYOFF	LEFT PAYOFF																				
33012-2001	33012-3001	7C3T-14474-EA	TIN	14	2.0	M1L-123A JASO D 611 (AVSS)	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	13.12	1.35	6.91	2.44	6.11	2.72	1.40
				14	-	M1L-135A1	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	12.96	1.28	6.51	2.44	6.11	2.52	1.30
				16	1.5	M1L-123A/M1L-126A1	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	12.96	1.28	6.51	2.44	6.11	2.52	1.30
33012-2002	33012-3002	7C3T-14474-DA	TIN	18	1.0	M1L-123A/M1L-126A1	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.65	1.13	6.46	2.14	1.93	2.23	1.15
				18	-	SAE J1128 (GXL)	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.96	1.28	6.51	2.14	1.93	2.52	1.30
				20	0.75	M1L-123A/M1L-126A1	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.42	1.03	6.36	2.14	1.93	2.04	1.05
				20	-	SAE J1128 (GXL)	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.65	1.13	6.46	2.14	1.93	2.23	1.15
33012-2003	33012-3003	7C3T-14474-CA	TIN	22	0.5	M1L-123A/M1L-126A1 JASO D 611 (AVSS)	2.5	2.6	0.9	1.0	11.97	0.42	0.72	6.57	12.24	0.93	6.31	1.60	1.44	1.84	0.95
33012-2003*	33012-3003*	7C3T-14474-CA*	TIN	-	0.35	WSK-1A34B-A2	2.5	2.6	0.9	1.0	11.97	0.42	0.72	6.57	12.24	0.93	6.31	1.60	1.44	1.84	0.95
33001-2003	33001-3003	7C3T-14474-HA	GOLD	14	2.0	M1L-123A JASO D 611 (AVSS)	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	13.12	1.35	6.91	2.44	6.11	2.72	1.40
				14	-	M1L-135A1	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	12.96	1.28	6.51	2.44	6.11	2.52	1.30
				16	1.5	M1L-123A/M1L-126A1	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	12.96	1.28	6.51	2.44	6.11	2.52	1.30
33001-2004	33001-3004	7C3T-14474-GA	GOLD	18	1.0	M1L-123A/M1L-126A1	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.65	1.13	6.46	2.14	1.93	2.23	1.15
				18	-	SAE J1128 (GXL)	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.96	1.28	6.51	2.14	1.93	2.52	1.30
				20	0.75	M1L-123A/M1L-126A1	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.42	1.03	6.36	2.14	1.93	2.04	1.05
				20	-	SAE J1128 (GXL)	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.65	1.13	6.46	2.14	1.93	2.23	1.15
33001-2005	33001-3005	7C3T-14474-FA	GOLD	22	0.5	M1L-123A/M1L-126A1 JASO D 611 (AVSS)	2.5	2.6	0.9	1.0	11.97	0.42	0.72	6.57	12.24	0.93	6.31	1.60	1.44	1.84	0.95
33001-2005*	33001-3005*	7C3T-14474-FA*	GOLD	-	0.35	WSK-1A34B-A2	2.5	2.6	0.9	1.0	11.97	0.42	0.72	6.57	12.24	0.93	6.31	1.60	1.44	1.84	0.95
33001-4001	33001-5001	7U5T-14474-UA	SILVER	14	2.0	M1L-123A JASO D 611 (AVSS)	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	13.12	1.35	6.91	2.44	6.11	2.72	1.40
				14	-	M1L-135A1	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	12.96	1.28	6.51	2.44	6.11	2.52	1.30
				16	1.5	M1L-123A/M1L-126A1	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	12.96	1.28	6.51	2.44	6.11	2.52	1.30
33001-4002	33001-5002	7U5T-14474-TA	SILVER	18	1.0	M1L-123A/M1L-126A1	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.65	1.13	6.46	2.14	1.93	2.23	1.15
				18	-	SAE J1128 (GXL)	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.96	1.28	6.51	2.14	1.93	2.52	1.30
				20	0.75	M1L-123A/M1L-126A1	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.42	1.03	6.36	2.14	1.93	2.04	1.05
				20	-	SAE J1128 (GXL)	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.65	1.13	6.46	2.14	1.93	2.23	1.15
33001-4003	33001-5003	7U5T-14474-SA	SILVER	22	0.5	M1L-123A/M1L-126A1 JASO D 611 (AVSS)	2.5	2.6	0.9	1.0	11.97	0.42	0.72	6.57	12.24	0.93	6.31	1.60	1.44	1.84	0.95
33001-4003*	33001-5003*	7U5T-14474-SA*	SILVER	-	0.35	WSK-1A34B-A2	2.5	2.6	0.9	1.0	11.97	0.42	0.72	6.57	12.24	0.93	6.31	1.60	1.44	1.84	0.95
LARGE POLARIZATION RIB																					
33012-2021	33012-3021	7C3T-14474-LA	TIN	14	2.0	M1L-123A JASO D 611 (AVSS)	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	13.12	1.35	6.91	2.44	6.11	2.72	1.40
				14	-	M1L-135A1	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	12.96	1.28	6.51	2.44	6.11	2.52	1.30
				16	1.5	M1L-123A/M1L-126A1	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	12.96	1.28	6.51	2.44	6.11	2.52	1.30
33012-2022	33012-3022	7C3T-14474-KA	TIN	18	1.0	M1L-123A/M1L-126A1	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.65	1.13	6.46	2.14	1.93	2.23	1.15
				18	-	SAE J1128 (GXL)	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.96	1.28	6.51	2.14	1.93	2.52	1.30
				20	0.75	M1L-123A/M1L-126A1	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.42	1.03	6.36	2.14	1.93	2.04	1.05
				20	-	SAE J1128 (GXL)	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.65	1.13	6.46	2.14	1.93	2.23	1.15
33012-2023	33012-3023	7C3T-14474-JA	TIN	22	0.5	M1L-123A/M1L-126A1 JASO D 611 (AVSS)	2.5	2.6	0.9	1.0	11.97	0.42	0.72	6.57	12.24	0.93	6.31	1.60	1.44	1.84	0.95
33012-2023*	33012-3023*	7C3T-14474-JA*	TIN	-	0.35	WSK-1A34B-A2	2.5	2.6	0.9	1.0	11.97	0.42	0.72	6.57	12.24	0.93	6.31	1.60	1.44	1.84	0.95
33001-2021	33001-3021	7C3T-14474-PA	GOLD	14	2.0	M1L-123A JASO D 611 (AVSS)	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	13.12	1.35	6.91	2.44	6.11	2.72	1.40
				14	-	M1L-135A1	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	12.96	1.28	6.51	2.44	6.11	2.52	1.30
				16	1.5	M1L-123A/M1L-126A1	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	12.96	1.28	6.51	2.44	6.11	2.52	1.30
33001-2022	33001-3022	7C3T-14474-NA	GOLD	18	1.0	M1L-123A/M1L-126A1	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.65	1.13	6.46	2.14	1.93	2.23	1.15
				18	-	SAE J1128 (GXL)	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.96	1.28	6.51	2.14	1.93	2.52	1.30
				20	0.75	M1L-123A/M1L-126A1	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.42	1.03	6.36	2.14	1.93	2.04	1.05
				20	-	SAE J1128 (GXL)	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.65	1.13	6.46	2.14	1.93	2.23	1.15
33001-2023	33001-3023	7C3T-14474-MA	GOLD	22	0.5	M1L-123A/M1L-126A1 JASO D 611 (AVSS)	2.5	2.6	0.9	1.0	11.97	0.42	0.72	6.57	12.24	0.93	6.31	1.60	1.44	1.84	0.95
33001-2023*	33001-3023*	7C3T-14474-MA*	GOLD	-	0.35	WSK-1A34B-A2	2.5	2.6	0.9	1.0	11.97	0.42	0.72	6.57	12.24	0.93	6.31	1.60	1.44	1.84	0.95
33001-4021	33001-5021	7U5T-14474-RA	SILVER	14	2.0	M1L-123A JASO D 611 (AVSS)	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	13.12	1.35	6.91	2.44	6.11	2.72	1.40
				14	-	M1L-135A1	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	12.96	1.28	6.51	2.44	6.11	2.52	1.30
				16	1.5	M1L-123A/M1L-126A1	3.9	4.4	1.7	1.6	12.82	0.6	1.19	7.05	12.96	1.28	6.51	2.44	6.11	2.52	1.30
33001-4022	33001-5022	7U5T-14474-PA	SILVER	18	1.0	M1L-123A/M1L-126A1	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.65	1.13	6.46	2.14	1.93	2.23	1.15
				18	-	SAE J1128 (GXL)	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.96	1.28	6.51	2.14	1.93	2.52	1.30
				20	0.75	M1L-123A/M1L-126A1	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.42	1.03	6.36	2.14	1.93	2.04	1.05
				20	-	SAE J1128 (GXL)	3.3	3.1	1.3	1.4	12.46	0.57	0.99	6.52	12.65	1.13	6.46	2.14	1.93	2.23	1.15
33001-4023	33001-5023	7U5T-14474-NA	SILVER	22	0.5	M1L-123A/M1L-126A1 JASO D 611 (AVSS)	2.5	2.6	0.9	1.0	11.97	0.42	0.72	6.57	12.24	0.93	6.31	1.60	1.44	1.84	0.95
33001-4023*	33001-5023*	7U5T-14474-NA*	SILVER	-	0.35	WSK-1A34B-A2	2.5	2.6	0.9	1.0	11.97	0.42	0.72	6.57	12.24	0.93	6.31	1.60	1.44	1.84	0.95

* 0.35mm² WIRE MUST NOT BE USED IN MX150 SEALED CONNECTOR SYSTEMS

ENTER DESCRIPTION
EC NO: UAU2010-0107 2009/08/18
DRWN:KFERGUSON 2009/08/19
CHKD:A. DHIR 2009/08/20
APPR:BMOSER 2009/08/20
DESCRIPTION
B1
REV

QUALITY SYMBOLS
▼=0
Ⓒ▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± 0.005	± ---
2 PLACES	± 0.10	± ---
1 PLACE	± 0.3	± ---
ANGULAR ± 3 °		

DIMENSION STYLE: MM ONLY
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: L. PULLIAM DATE: 2005/06/21
CHECKED BY: A. DHIR DATE: 2005/06/21
APPROVED BY: B. MOSER DATE: 2005/06/22

TITLE: MX150 RECEPTACLE TERMINAL

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-33012-002
SHEET NO.: 5 OF 5

SIZE C

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

OCEAN CHIPS
Океан Электроники
Поставка электронных компонентов

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «**JONHON**», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «**FORSTAR**».

AVIC JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).

FORSTAR®

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