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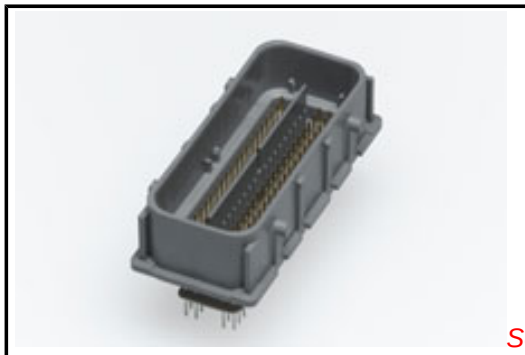
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0313874009
Status: Active
Overview: mx123_sealed_connection_systems
Description: 2.54mm (.100") Pitch, MX123™ Female Header, 80 Circuits Shrouded Assembly, 0.64mm (.025") Square Pins, Harness Side Key Code G, Blue



Series image - Reference only

Documents:
Drawing (PDF)
RoHS Certificate of Compliance (PDF)
Product Specification PS-34566-0000 (PDF)

General

Product Family	PCB Headers
Series	31387
Application	Wire-to-Board
Overview	mx123_sealed_connection_systems
Product Name	MX123

Physical

Breakaway	No
Circuits (Loaded)	80
Circuits (maximum)	80
Color - Resin	Gray
First Mate / Last Break	No
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	Yes
Material - Metal	Copper Alloy
Material - Plating Mating	Tin
Material - Plating Termination	Nickel
Material - Resin	Nylon Alloy
Number of Rows	4
Orientation	Vertical
PC Tail Length (in)	0.255 In
PC Tail Length (mm)	6.50 mm
PCB Locator	No
PCB Retention	None
Packaging Type	Carton
Pitch - Mating Interface (in)	0.100 In
Pitch - Mating Interface (mm)	2.50 mm
Pitch - Term. Interface (in)	0.100 In
Pitch - Term. Interface (mm)	2.50 mm
Polarized to Mating Part	Yes
Polarized to PCB	No
Shrouded	Yes
Stackable	No
Surface Mount Compatible (SMC)	No
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	11A
Voltage - Maximum	500V

Material Info

Reference - Drawing Numbers

Packaging Specification	PK-31300-840

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
31387Series

Mates With
MX123™ Female Receptacle Housing
34566 , 34576

Use With
33467 MX64 Female Terminals

Product Specification	PS-34566-0000
Sales Drawing	SD-31387-080

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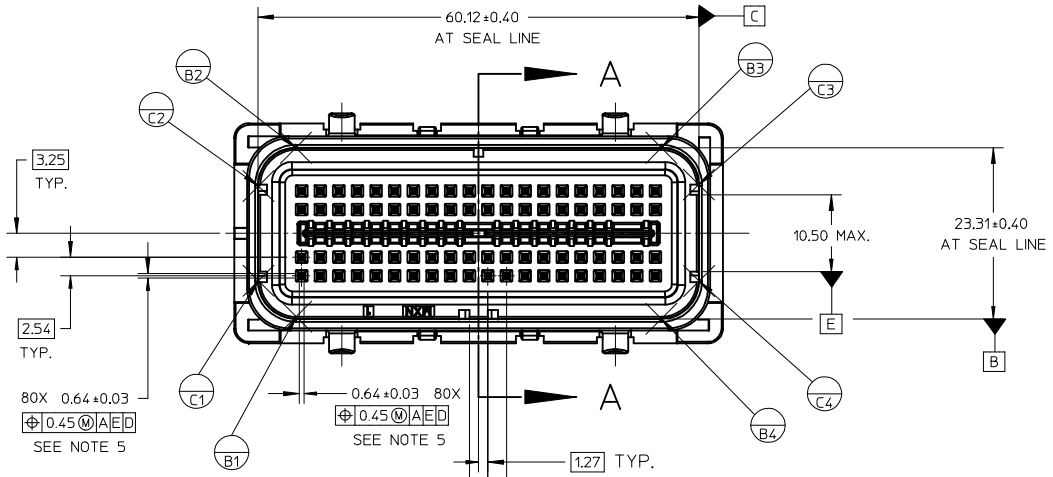
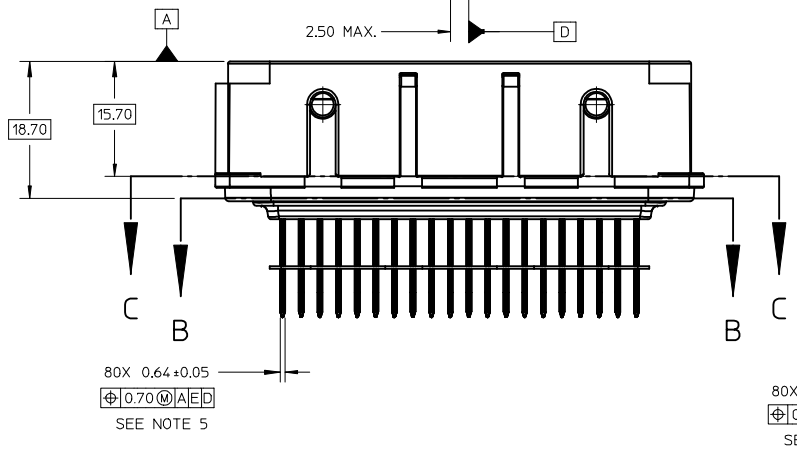
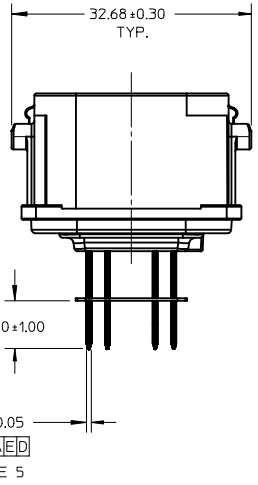
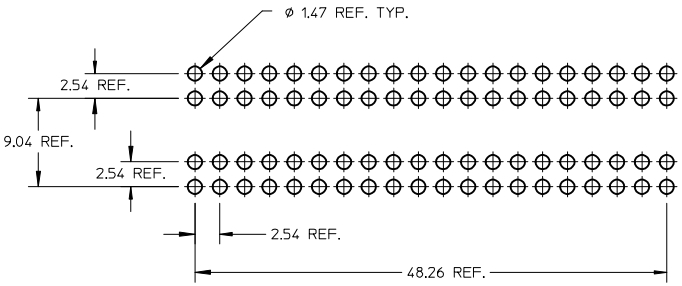
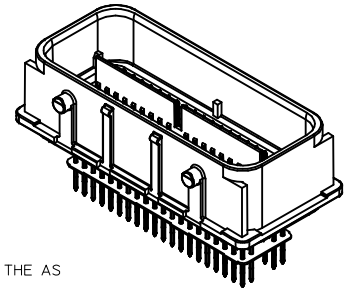








PCB LAYOUT FOR REFERENCE ONLY



NOTES:

1. DIMENSIONS AND TOLERANCES ARE VALID FOR THE AS SHIPPED SHROUD ASSEMBLY
2. SEE ASME Y14.5-1994 FOR GD&T INTERPRETATION
3. RESIN MATERIAL: 30%GF PBT, SEE CHART FOR COLOR AND KEYING OPTIONS
4. MEASUREMENT POINT FOR SIGNAL PIN PLATING:
   UNDERPLATE: NICKEL 1.27-2.54 µm
   SELECT GOLD: 0.76 µm MIN.
   SELECT TIN: 5.08-10.16 µm BRIGHT FINISH
   PIN SOLDERABILITY PER SMES-152
5. ALL PIN TRUE POSITION FUNCTIONALLY CHECKED BY ON-LINE GAUGING
6. FOR ALL HARNESS INTERFACE DIMENSIONS AND TOLERANCES REFERENCE MOLEX DRAWINGS: SD-34565-001 (MX123 73/80 CKT. WIRE DRESS COVER)
   SD-34566-001 (MX123 73/80 CKT. HARNESS CONNECTOR)
   SD-33468-001 (MX64 RECEPTACLE TERMINAL)
7. NOTE: ASSEMBLY SHALL NOT EXCEED 125°C DURING POST PROCESSING OR DURING THE ATTACHMENT PROCESS
8. ADHESIVE FOR ATTACHMENT: AS A GENERAL GUIDELINE MOLEX USES SILICONE BASED ADHESIVES AS AN ATTACHMENT METHOD TO CREATE A PERMANENT ADHESIVE BOND BETWEEN THE SHROUD AND AN ALUMINUM DIE-CASTING
9. PACKAGING PER MOLEX PK-31300-840
10. REFER TO THE MX123 USER MANUAL @ http://www.molex.com/ind/mx123.html

ENTER DESCRIPTION	2009/07/22		
EC NO: UAU2009-1301	2009/07/22		
DRWN:DFENCL	2009/07/24		
CHKD:FJAKLIC			
APPR:GPRATT			
DESCRIPTION			
A		REV	

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 1 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

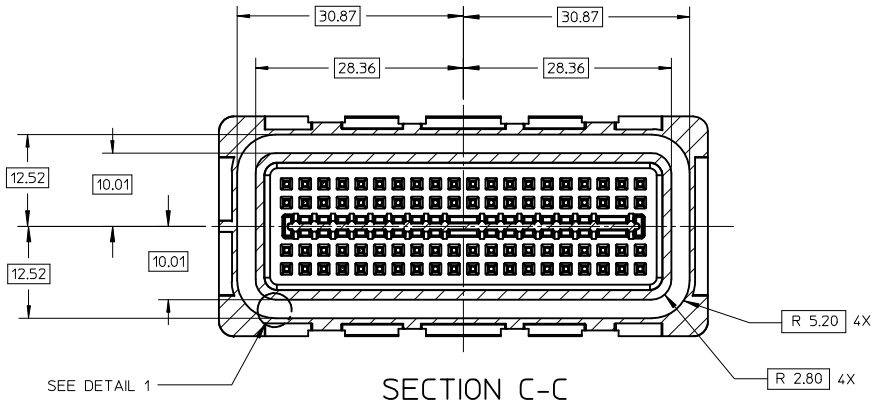
DIMENSION STYLE	MM ONLY
SCALE	1.5:1
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	FJAKLIC
DATE	04/30/08
CHECKED BY	FJAKLIC
DATE	04/30/08
APPROVED BY	GPRATT
DATE	05/05/08
MATERIAL NO.	SEE CHART
SIZE	B

TITLE: 80 CKT SHROUD ASSEMBLY 0.64 SQ. PINS MX123

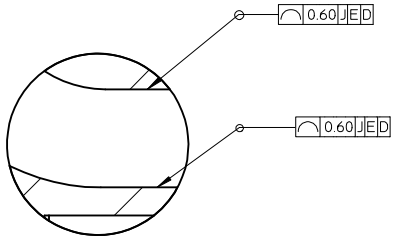
MOLEX INCORPORATED

DOCUMENT NO. SD-31387-080

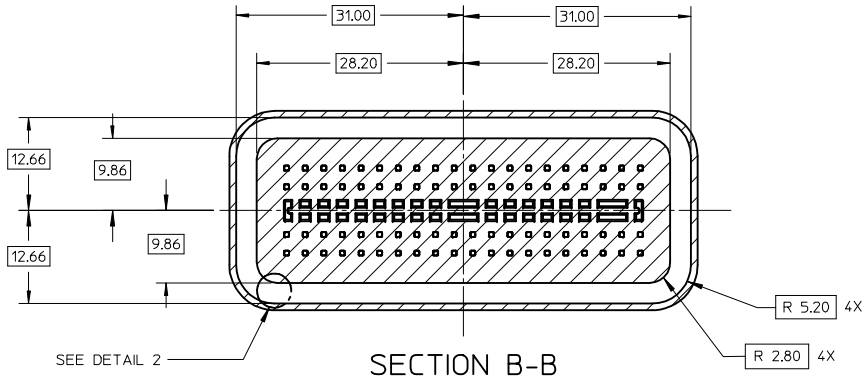
SHEET NO. 1 OF 3



SECTION C-C



DETAIL 1



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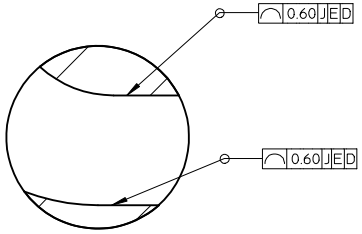
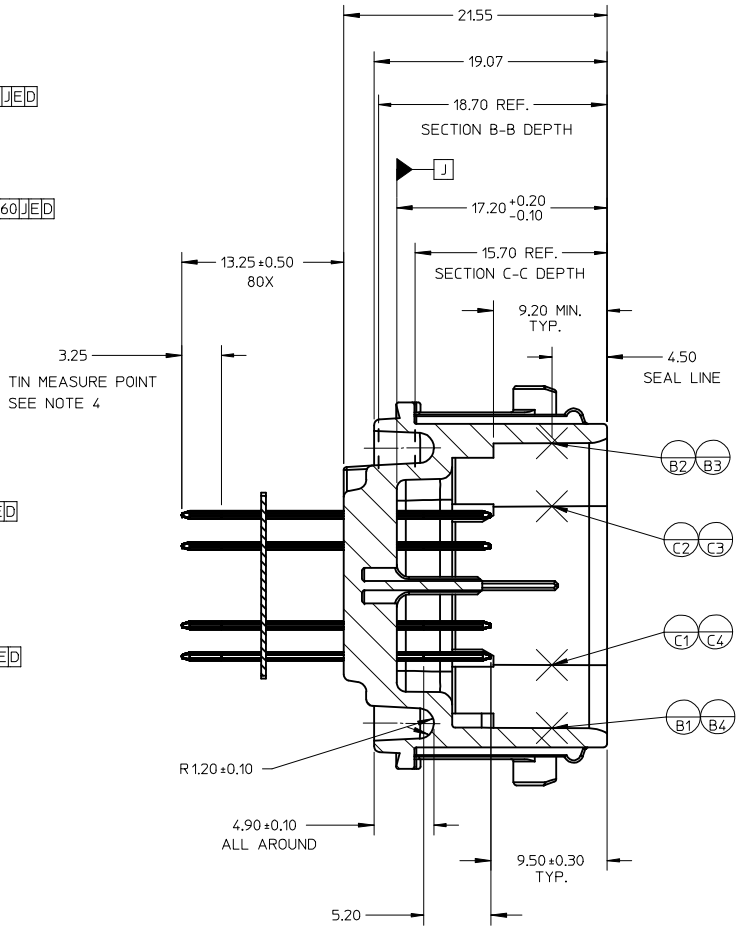
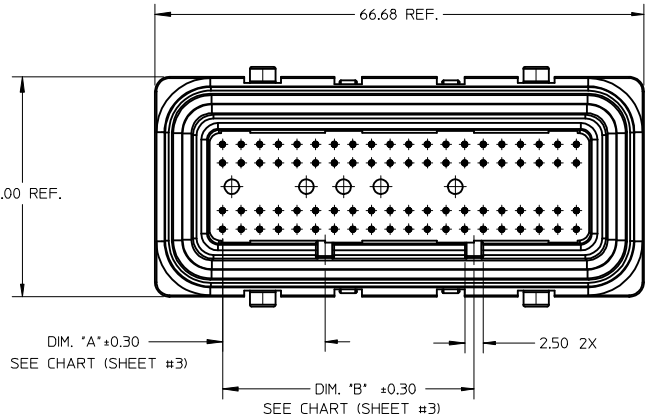


DETAIL 2



SECTION A-A



ENTER DESCRIPTION
EC NO: UAU2009-1301 2009/07/22
DRWN:DFENCL 2009/07/22
CH'KD:FJAKLIC 2009/07/24
APPR:GPRATT
DESCRIPTION
A
REV

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Ⓒ=0

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4 PLACES	± ---	± ---
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2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 1 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

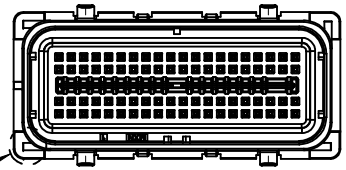
DIMENSION STYLE	MM ONLY
SCALE	1:1
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	FJAKLIC
DATE	04/30/08
CHECKED BY	FJAKLIC
DATE	04/30/08
APPROVED BY	GPRATT
DATE	05/05/08
MATERIAL NO.	SEE CHART
SIZE	B

TITLE
80 CKT SHROUD ASSEMBLY
0.64 SQ. PINS
MX123

MOLEX INCORPORATED

DOCUMENT NO. SD-31387-080
SHEET NO. 2 OF 3

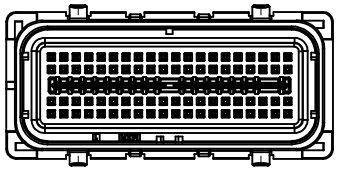
SHROUD ASSEMBLY NUMBER	COLOR	HARNESS SIDE KEY CODE	PCB SIDE KEY LOCATION		MATING HARNESS PART NUMBER
			DIM. "A" (SEE SHEET 2)	DIM. "B" (SEE SHEET 2)	
31387-4001	BLUE	G	13.97	34.29	345660703
31387-4009	GRAY	H	24.13	39.37	345660803



MATE SIDE
POLARIZATION KEY
AT CORNERS

MOLEX P/N 31387-4001
KEY OPTION "G"
COLOR; BLUE

SEE CHART FOR PART NUMBER
OF MATING HARNESS CONNECTOR



MOLEX P/N 31387-4009
KEY OPTION "H"
COLOR: GRAY

SEE CHART FOR PART NUMBER
OF MATING HARNESS CONNECTOR

ENTER DESCRIPTION
EC NO: UAU2009-1301
DRWN:DFENCL 2009/07/22
CH'KD:FJAKLIC 2009/07/22
APPR:GPRATT 2009/07/24
DESCRIPTION
A
REV

QUALITY SYMBOLS
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▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 1 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

		DATE
DRAWN BY	FJAKLIC	04/30/08
CHECKED BY	FJAKLIC	04/30/08
APPROVED BY	GPRATT	05/05/08

TITLE: 80 CKT SHROUD ASSEMBLY
0.64 SQ. PINS
MX123

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-31387-080
SHEET NO.: 3 OF 3
SIZE: B