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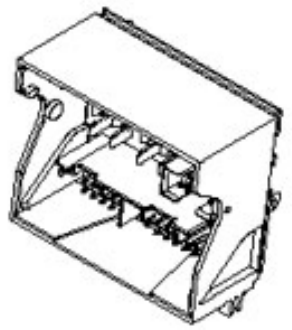
This document was generated on 05/26/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0916160011
Status: Active
Overview: junction_box_io_connectors
Description: 2.54mm (.100") Pitch Junction Box MOST, Vertical, 40 Circuits, with 10A Fuse

Documents:

3D Model
Drawing (PDF)
Product Specification PS-91616-001 (PDF)
RoHS Certificate of Compliance (PDF)



Series image - Reference only

General

Product Family	PCB Headers
Series	91616
Application	Wire-to-Board
Comments	10A Fuse Included
Overview	junction_box_io_connectors
Product Name	Junction Box, MOST

Physical

Breakaway	No
Circuits (Loaded)	40
Circuits (maximum)	40
Circuits Detail	Spade 16|Square 24
Color - Resin	Black
Durability (mating cycles max)	30
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	Brass, Phosphor Bronze
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	Nylon
Number of Rows	6
Orientation	Vertical
PC Tail Length (in)	0.112 In
PC Tail Length (mm)	2.85 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.100 In
Pitch - Mating Interface (mm)	2.54 mm
Plating min: Mating (µin)	120, 40
Plating min: Mating (µm)	1, 3
Plating min: Termination (µin)	120
Plating min: Termination (µm)	3
Polarized to PCB	Yes
Shrouded	Fully
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-40°C to +85°C
Termination Interface: Style	Through Hole

Electrical

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Not Reviewed
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
91616Series

Current - Maximum per Contact	6A
Voltage - Maximum	16V

Solder Process Data

Lead-free Process Capability	Wave Capable (TH only)

Material Info

Reference - Drawing Numbers

Packaging Specification	PK-91616-001
Product Specification	PS-91616-001
Sales Drawing	SD-91616-001

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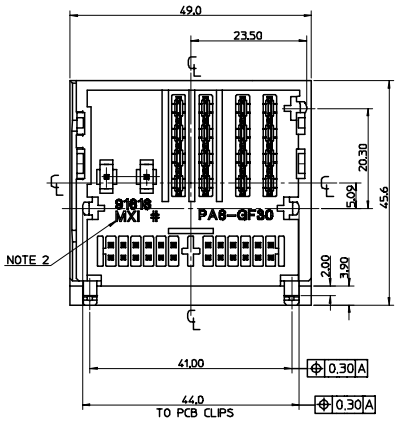
REF NO	DESCRIPTION	QTY	MADE FROM	REMARKS
1	HOUSING	1	PA6-30%GF	COLOUR = BLACK
2	SPADE TERMINAL	16	0.61 REF THICK BRASS	1-3um Sn on first 5mm of Contact End 3-5um Sn on Remainder Undercoat of 1.27-2.20um Ni Overall
3	SQUARE TERMINAL	24	0.61 REF SQUARE BRASS	
4	FUSE TERMINAL	2	0.80 REF THICK PHOSPHOR BRONZE	3-5um Sn BRIGHT OVER Undercoat of 1.27-2.20um Ni OVERALL
5	FUSE (10A)	1	Cu58F DIN 1787 OR EQUIVALENT	PLATED 4um Sn

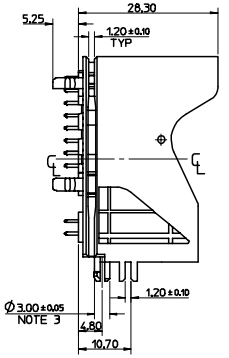
NOTES:
1) INTERNAL NUMBERING RECESSED BELOW THE SURFACE.
2) EXTERNAL MOLEX AND CUSTOMER IDENTIFICATION 0.2 PROUD OF SURFACE.
3) CLIP TO SUIT 3.35 +/-0.05 DIA HOLE.
4) PART TRACABILITY MARKING IN THIS AREA. FORMAT IS:

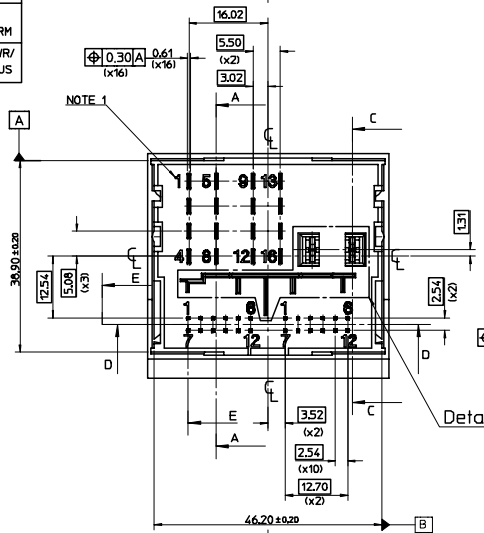
HOUR	DAY 1-7 (1=MONDAY)	WEEK	YEAR
* *	*	* *	*

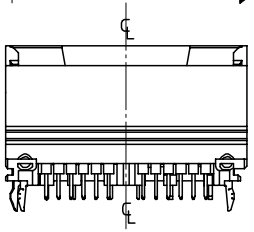
5) FOR THE PRODUCT SPECIFICATION REFER TO DOC: PS-91616-001.
6) FOR THE PACKAGING SPECIFICATION REFER TO APPLICABLE DOC: PK-91616-001.
7) PIN BARB ORIENTATION AS SHOWN.

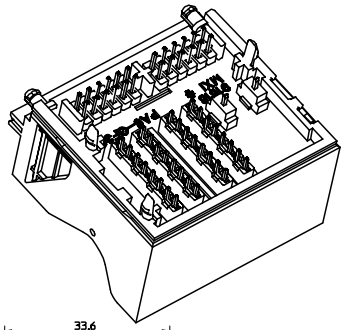
PART NUMBER	DESCRIPTION
91616-0001	J.BOX MOST STR W/ 16 PWR/24 SGN/2FUS TRM
91616-0011	J.BOX MOST STR W/16PWR/ 24SGN/2FUS TRM/10A FUS

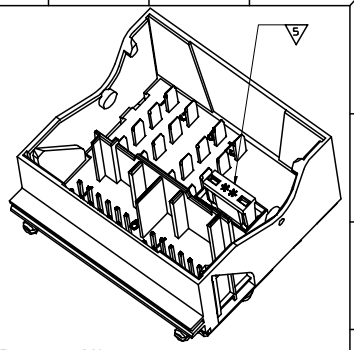


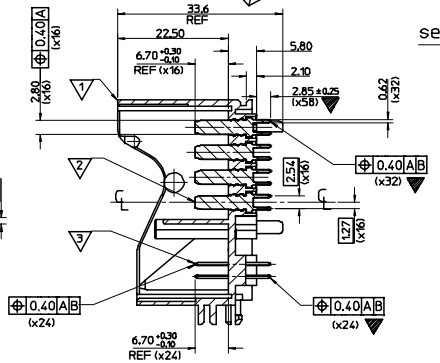


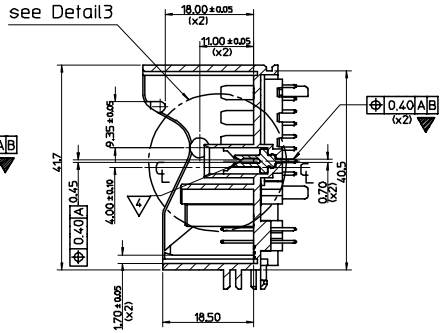






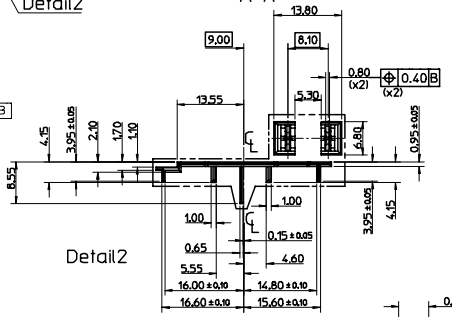




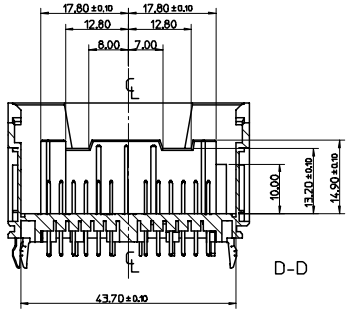


C-C

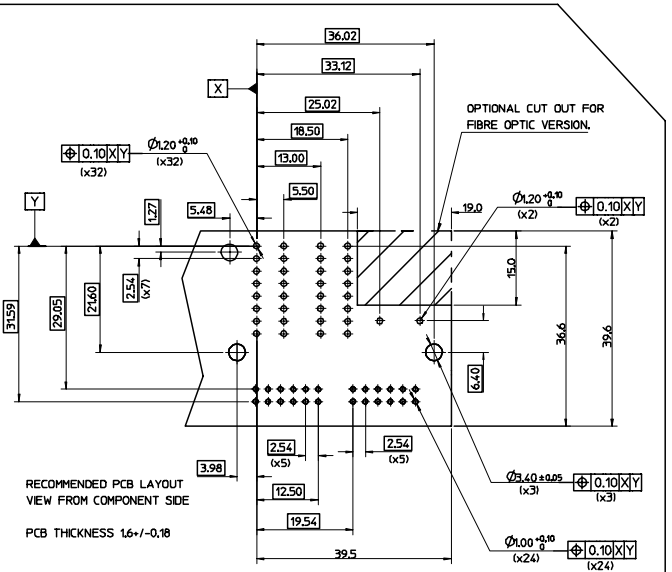
A-A



Detail2

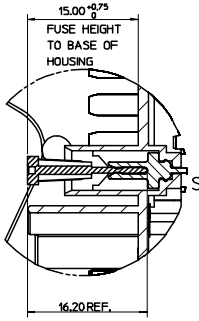


D-D

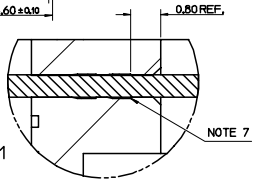


RECOMMENDED PCB LAYOUT
VIEW FROM COMPONENT SIDE

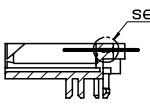
PCB THICKNESS 1.6+/-0.18



Detail3
Scale 3:1



Detail4
Scale 15:1



E-E

Updated Plating Spec.
EC NO: E2006-0252 2007/04/03
DRWN: SGMCMAH 2007/04/11
CHKD:
APPR: BMAGUIRE 2007/04/26
REV G
DESCRIPTION

QUALITY SYMBOLS
▼ - 4
▽ - 0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.15	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 2 °		

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

SCALE 2:1
DESIGN UNITS METRIC
THIRD ANGLE PROJECTION
REVISE ON CAD ONLY
DIMENSION STYLE MM ONLY
TITLE J.BOX MOST STR
DRAWN BY TOM M DATE 16.05.2002
CHECKED BY BMAGUIRE DATE 22.05.2002
APPROVED BY MWILHITE DATE 03-10-2002
MOLEX INCORPORATED
MATERIAL NO. SEE TABLE
DOCUMENT NO. SD-91616-001
SHEET NO. 1 OF 1

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A1

tb_frame_A1_P_AM_T
rev. B1 2000/08/01