

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0855105020](#)
Status: **Active**
Overview: [modular_plugs_jacks](#)
Description: Modular Jack, Vertical, SMT, 8/8, Solder Tabs

Documents:
[3D Model](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Drawing \(PDF\)](#)

Agency Certification

UL E107635

General

Product Family Modular Jacks/Plugs
Series [85510](#)
Comments Small Panel Cutout
Component Type PCB Jack
Magnetic No
Overview [modular_plugs_jacks](#)
Performance Category 3
Power over Ethernet (PoE) N/A
Product Name RJ45

Physical

Boot Color N/A
Color - Resin Black
Durability (mating cycles max) 1,000
Flammability 94V-0
Inverted / Top Latch No
Lightpipes/LEDs None
Material - Metal Brass
Material - Plating Mating Gold
Material - Plating Termination Tin
Material - Resin High Temperature Thermoplastic
Orientation Vertical (Top Entry)
PCB Locator No
PCB Retention Yes
Packaging Type Embossed Tape on Reel
Pitch - Mating Interface (in) 0.040 In
Pitch - Mating Interface (mm) 1.02 mm
Pitch - Term. Interface (in) 0.050 In
Pitch - Term. Interface (mm) 1.27 mm
Plating min: Mating (µin) 120.00, 50.8
Plating min: Mating (µm) 1.27, 3.000
Plating min: Termination (µin) 120.00, 76
Plating min: Termination (µm) 1.9, 3.00
Ports 1
Positions / Loaded Contacts 8/8
Surface Mount Compatible (SMC) Yes
Temperature Range - Operating -40°C to +80°C
Termination Interface: Style Surface Mount
Waterproof / Dustproof No
Wire/Cable Type N/A

Electrical

Current - Maximum per Contact 1.5A

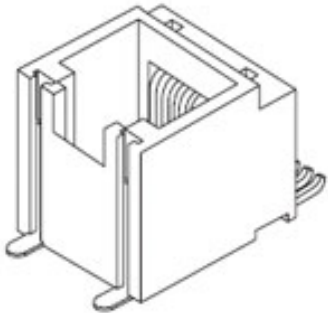


image - Reference only

Series

EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
Contains SVHC: No
Halogen-Free
Status

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
[85510Series](#)

Mates With
FCC 68 Plugs

Shielded	No
Voltage - Maximum	125V DC

Solder Process Data

Duration at Max. Process Temperature (seconds)	40
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	3
Process Temperature max. C	260

Material Info

Reference - Drawing Numbers

Application Specification	AS-85513-001
Packaging Specification	PK-85510
Sales Drawing	SD-85510-002

This document was generated on 06/07/2010

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D

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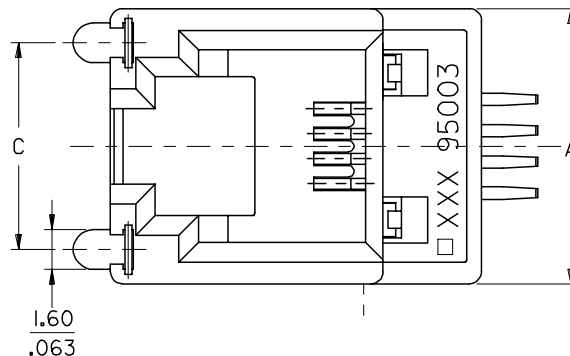
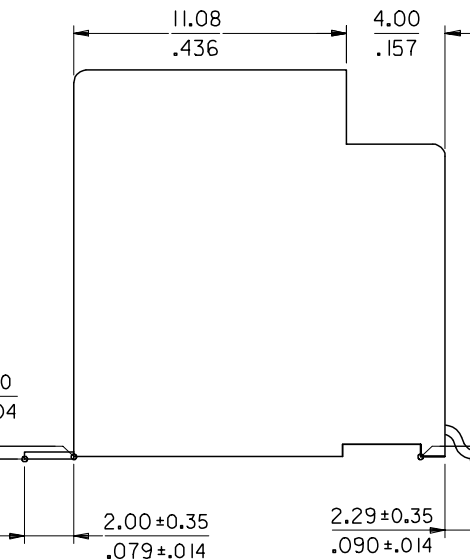
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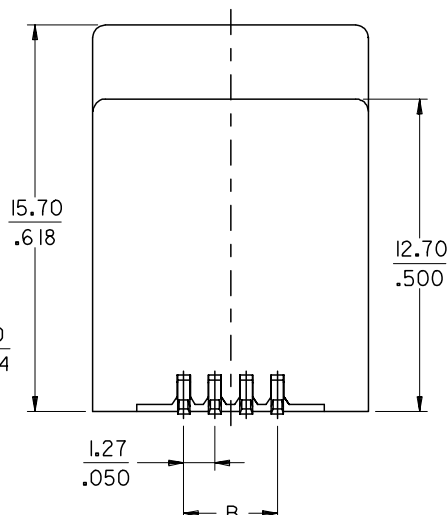
A

PART. NO.	HOUSING SIZE	LOADED CKTS	TOOLED	PACKAGING	A	B ± 0.15 $\pm .006$	C
85510-5003	8	8	YES	TAPE	15.24 .600	8.89 .350	10.77 .424
85510-5020	8	8	YES	BLISTER ON REEL 13"			
85510-5028	8	8	YES	BLISTER ON REEL 22"			
85510-5005	6	6	YES	TAPE	13.21 .520	6.35 .250	9.95 .392
85510-5019	6	6	YES	BLISTER ON REEL 13"			
85510-5027	6	6	YES	BLISTER ON REEL 22"			
85510-5013	6	4	NO	TAPE	13.21 .520	3.81 .150	9.95 .392
85510-5018	6	4	NO	BLISTER ON REEL 13"			
85510-5026	6	4	YES	BLISTER ON REEL 22"			
85510-5007	4	4	YES	TAPE	11.18 .440	3.81 .150	8.40 .331
85510-5017	4	4	YES	BLISTER ON REEL 13"			
85510-5025	4	4	YES	BLISTER ON REEL 22"			



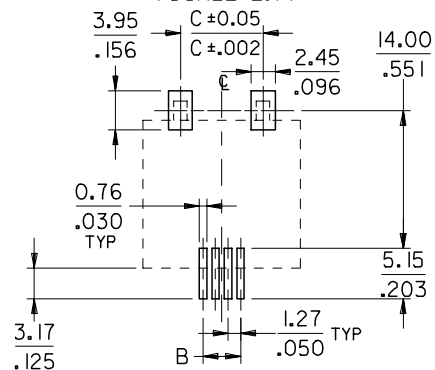
NOTES:

- 1- MATERIAL:
 - HOUSING: LCP FIBER GLASS FILLED UL 94-V0, COLOR BLACK.
 - TERMINAL: BRASS PLATED WITH: 0.00127/.000050 MIN. GOLD IN CONTACT AREA, 0.00190/.000075 MIN PURE TIN IN TAIL AREA, BOTH OVER 0.00127/.000050 MIN NICKEL OVERALL.
 - SOLDER NAILS: BRASS PRE-PLATED WITH 0.0020/.000078 MIN TIN
- 2- JACK FOR MATING WITH F.C.C.68 PLUGS (MOLEX 95075 SERIES).
- 3- PRODUCT SPECIFICATION PS-95503-001.
- 4- APPLICATION SPECIFICATION: AS-85513-001
- 5- PACKAGING SPECIFICATION: PK-85510
 - SHEET 1 (TAPE ON REEL)
 - SHEET 2 (BLISTER ON REEL 13")
 - SHEET 3 (BLISTER ON REEL 22")
- 6- COPLANARITY OF SIGNAL LEADS: 0.10 MAX
- 7- MANUFACTURING I.D CAN BE EITHER MG, MXF OR MXL.



PCB MOUNTING PATTERNS

(SEE FROM COMPONENT SIDE)
(SCALE 2:1)



(ONLY 4/4 VERSION PADS SHOWN)

CORRECTED TERM MATL
EC NO: E2008-0031
DRWN: DBYRNES
CHKD: CHKD:
APPR: EOMAHONY
2007/07/23
2007/07/23
2007/07/26

QUALITY SYMBOLS
▽=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .006
2 PLACES	± 0.15	± .010
1 PLACE	± 0.25	± ---
ANGULAR ± 2 °		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE	
MM/IN	
DRAWN BY	DATE
HB	95/11/21
CHECKED BY	DATE
TB	95/11/21
APPROVED BY	DATE
FB	95/11/21
MATERIAL NO.	
SEE CHART	
SIZE	A3

SCALE 5:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
TITLE		
TOP ENTRY SMT JACKS 4/4 6/6 AND 8/8 POS. WITH SOLDER NAILS		
MOLEX MOLEX INCORPORATED		
DOCUMENT NO. SD-85510-002		SHEET NO. 1 OF 1
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