

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [5008100000](#)  
**Status:** **Active**  
**Description:** Mini-HMC™ Shielded I/O Plug Shell, 40 Circuits, 8 Rows, Polarizing Key Type A

**Documents:**

[3D Model](#) [Product Specification PS-500810-001 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**General**

Product Family	I/O Connectors
Series	<a href="#">500810</a>
Application	Panel-Mount, Wire-to-Wire
Component Type	Plug Shell Body
Product Name	Mini-HMC™
Type	N/A

**Physical**

Boot Color	N/A
Circuits (Loaded)	40
Circuits (maximum)	40
Durability (mating cycles max)	50
Gender	Plug
Keying to Mating Part	Yes
Lock to Mating Part	Yes
Material - Metal	Brass
Material - Plating Mating	Copper
Material - Plating Termination	Copper
Number of Rows	2
Orientation	Vertical
PCB Locator	No
Packaging Type	Bag
Panel Mount	Screws
Pitch - Mating Interface (in)	0.000 In
Pitch - Mating Interface (mm)	0.00 mm
Plating min: Mating (µin)	20
Plating min: Mating (µm)	0.5
Plating min: Termination (µin)	20
Plating min: Termination (µm)	0.5
Polarized to Mating Part	Yes
Polarized to PCB	No
Ports	1
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-55°C to +105°C
Termination Interface: Style	Surface Mount
Waterproof / Dustproof	Yes
Waterproof / Dustproof Type	IP65

**Electrical**

Current - Maximum per Contact	1.5A, 2.5A
Shield Type	Full Shield
Shielded	Yes
Voltage - Maximum	250V

**Material Info**

**Reference - Drawing Numbers**

Product Specification	PS-500810-001, RPS-500810-001
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*image - Reference only*

**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](mailto: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**  
[500810Series](#)

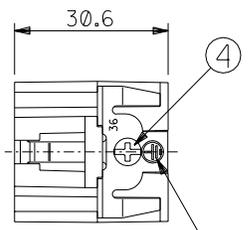
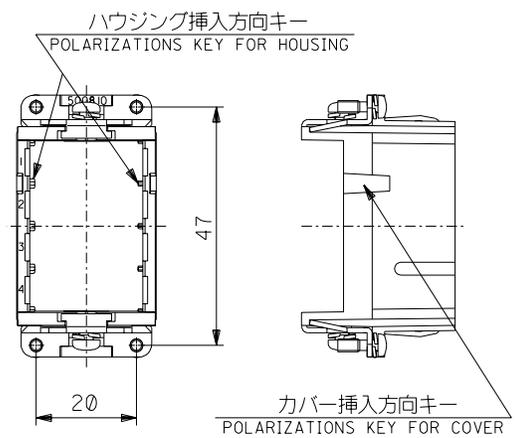
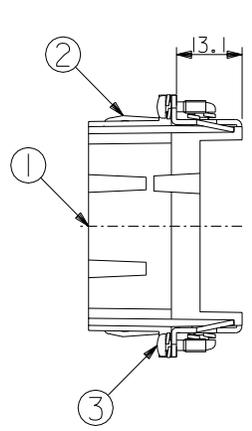
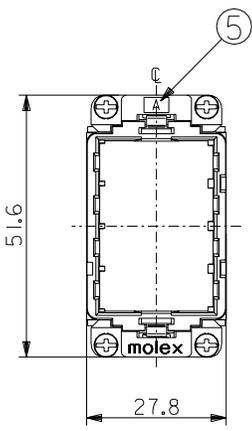
**Mates With**  
[500809-0000](#) Receptacle Shell

**Use With**  
[500811-0010](#) Cover, [500812-1000](#) Plug Housing, [56118](#) Plug Terminal, [56119](#) Plug Terminal

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DWG. NO. SD-500810-001



注記:  
NOTES:

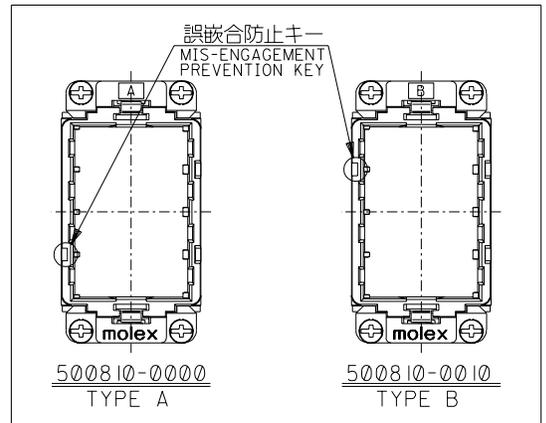
- 適用プラグカバーアッセンブリ  
APPLICABLE PLUG COVER ASS'Y  
ストレートタイプ : 500811-0010  
STRAIGHT TYPE
- 適用ハウジングとターミナル  
APPLICABLE HOUSING AND TERMINAL

適用ハウジング APPLICABLE HOUSING	適用ターミナル APPLICABLE TERMINAL
ピンハウジング PIN HOUSING	56118-8*** 56119-8***
ソケットハウジング SOCKET HOUSING	56120-8*** 56121-8***

- 推奨ねじ締め付トルク:  
RECOMMENDED TIGHTENING TORQUE  
① M3 : 5~6kgf・cm  
② M2.5 : 4~5kgf・cm

- 適用グラウンド圧着端子  
APPLICABLE CRIMP TERMINAL FOR GROUND  
活線と同等かそれ以上の電線サイズに適用した圧着端子を使用。  
RING TERMINAL FOR POWER WIRE SIZE OR BIGGER ONE.

部番 No.	部品名 PART NAME	数量 QTY.	材質 MATERIAL	記事 ARTICLE
①	プラグ シェル PLUG SHELL	1	アルミニウム合金 ALUMINIUM ALLOY	—
②	プラグ グラウンド ターミナル PLUG GROUND TERMINAL	2	黄銅 BRASS	Niメッキ Ni PLATING
③	ばね座金組込みプラマイねじ(M2.5×8) FREE DRIVE HEAD SCREWS WITH SPRING WASHER (M2.5×8)	4	鋼 STEEL	Niメッキ Ni PLATING
④	ばね座金組込みプラマイねじ(M3×5) FREE DRIVE HEAD SCREWS WITH SPRING WASHER (M3×5)	2	鋼 STEEL	Niメッキ Ni PLATING
⑤	ラベル LABEL	1	ポリエステル POLYESTER	—



B	500810-0010	500810-00*0
A	500810-0000	
TYPE	MATERIAL NO.	MODEL NO.

DO NOT SCALE DRAWING

EC NO. DRWN: CHK: APPR:	EC NO. DRWN: CHK: APPR:	EC NO. DRWN: CHK: APPR:	EC NO. DRWN: CHK: APPR:

REV	DESCRIPTION	MATERIAL 材料	表参照 SEE TABLE
0	RELEASED '03/07/02 EC NO. J2004-0013 DRWN: S.AKIYAMA CHK: J.MIYAZAWA APPR: YO.ITO		
	FINISH 仕上げ		—
	WIRE RANGE 適用電線範囲		—
	INS. RANGE 被覆外径		—

GENERAL TOLERANCES: (UNLESS SPECIFIED) 一般公差		SCALE	DESIGN UNITS □mm □INCH
10 UNDER 未満	±0.2	第三角 THIRD ANGLE PROJECTION	THIRD ANGLE PROJECTION
10 OVER 30 UNDER 以上 未満	±0.25	DRAWN BY & DATE S. Akigama '03/06/25	TITLE: MINI ROBOT CONN. 40P PLUG SHELL ASS'Y
30 OVER 以上	±0.3	CHECKED BY & DATE Y. Ito '03/07/02	MATERIAL NO. DRAWING NO. SD-500810-001
ANGLE 角度	±3°	APPROVED BY & DATE Y. Ito '03/07/02	SHEET NO. 1 OF 1

DIMENSIONS: □mm □INCH		SHT	REV
□mm □INCH			REVISE ON CAD ONLY
MATERIAL NO. DRAWING NO. SHEET NO.			
SD-500810-001 SD-500810-001 1 OF 1			
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