

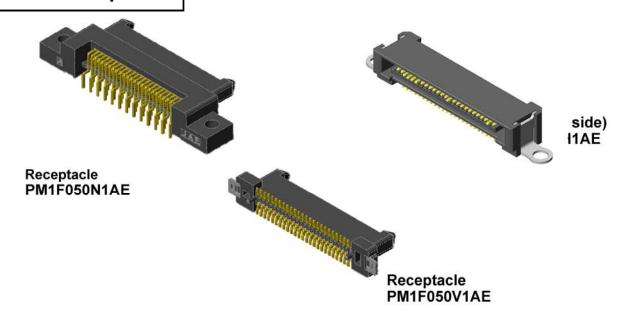


0.8mm pitch bay connector

# **PM1 Series**

CONNECTOR MB-0089-3 July 2006

## **RoHS Compliant**



PM1 series is a bay connector compatible with optical drive 9.5mm thick.

#### **Features**

- •Connector height 5.4mm, low profile board to board bay connector.
- •Plug side (PM1M050H1AE) with 2-step contact length-insertion structure.

  Compatible to 2-step contact length-insertion structure (step difference: 0.4mm) by 2 contact types (contact length 3.1mm and 2.7mm)
- •Superior displacement error absorption structure
  Insertion guide absorbs the displacement caused by insertion and removal from drive.
- Lifetime 7000 times, achieved
- •Plug side (PM1M050H1AE) can be mounted to board in common with KX15-50KLDP. (There is no mating compatibility between PM1series and KX14/15 series connectors)

### **General Specifications**

•No. of contacts: 50 pos.

Contact resistance: 70m ohm max.

Dielectric withstanding voltage:

AC 250 Vr.m.s (per minute)

Contact pitch: 0.8mm

•Operating temperature: -40 to+85 Deg. C

•Rated current: 0.5A per contact

•Insulation resistance: 100M ohm min.

•Life time: 7000 times

Rated voltage: AC125V.r.m.s

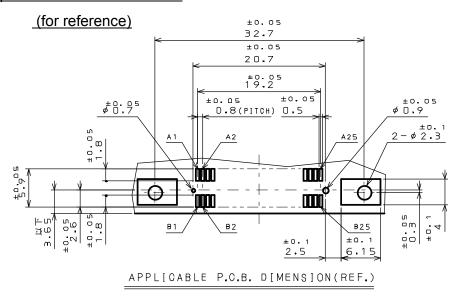
## Materials and Finishes

Componets	Materials	Finishes
Base Insulator	LCP filled with heat- resistant plastic glass	None(UL94V-0), Black
Contact	Copper alloy	Contact area: Au plating Terminal area: Sn plating over Ni
Reinforcement	Copper alloy	Sn type plating

### **Ordering Information** N **PM1** Pb-free product Series Contact type F: Modification Spring side Contact finish Receptacle side 1: Au plating over Ni No. of contacts Connection type N: Angle through-hole/ without kink Part Number PM1F050N1AE **Drawing Number** SJ101417 ±0.05 24 ±0.05 0.25 ±0.09 ±0.09 0.58 #0.0 #0.78 ±0. Drawing when mated A25 (for reference) PM1M050H1A 24.7 (22.7) ±0.1 32.7 ±0.3 37 Applicable dimension of board В (for reference) ±0.05 ±0.05 ±0,05 0.8 ±0,05 ¢0.9 ±0.05 (PITCH) B25 #0.05 #3.3 #0.05 ±0.0 A 1 ΑЗ A25 50-- ø 2.3 APPLICABLE P.C.B. DIMENSION(REF.)

### **Ordering Information** PM1 M Н Series Pb-free product Contact type M: Modification Pin side Plug side Contact finish 1: Au plating over Ni No. of contacts Connection type Part Number PM1M050H1AE H: Angle SMT/ with hold-down **Drawing Number** SJ101418 ±0.4 35.2 32.7 LOT No. R1.75 ±0.2 ø 2.3 -0, 2 28 <del>8</del>25 A ±0.05 20.7

#### Applicable dimension of board



Note1) An embossed tape reel contains 1,000 pieces. Please contact us for details of embossed tape specifications.

#### Ordering Information PM<sub>1</sub> \* \* \* Ε Pb-free product Series Modification Contact type F: Spring side Contact finish Receptacle side 1: Au plating over Ni No. of contacts Connection type V: Straight SMT/ with hold-down Part Number PM1F050V1AE SJ101423 Drawing Number Drawing when mated (for reference) ±0.2 1.36 PM1M050H1AE 0.7 LOT NO 0 ď 6.35 ±0.03 **4**0.78 → 0.1 A А ±0.05 ±0.05 0.6 0.6 Applicable dimension of board 4.8 (for reference) ±0.05 25.9 ±0.05 21.15 ±0.05 2.91 ±0.05 ±0.05 1.15 ±0.05 0 + **9000** 000 **Notice:** Products shown in this leaflet are ±0.05 ±0.05 ±0.05 #0.05 \$0.7 (PITCH) 19.2

## Japan Aviation Electronics Industry, Limited

APPLICABLE P.C.B. DIMENSION(REF.)

**Product Marketing Division** 

Aobadai Building, 3-1-19, Aobadai, Meguro-ku, Tokyo 153-8539 Phone: +81-3-3780-2787 FAX: +81-3-3780-2946 **Notice:** Products shown in this leaflet are made for the applications listed below. However, if the above-mentioned products are to be used in aerospace devices, marine cable-connection devices, atomic power control systems, medical equipment for life-support systems, or any other specific application requiring extremely high reliability, please contact JAE for further information.

Recommended applications: Computers, Office machines. Measuring devices.

Telecommunication devices (Terminals, Mobile devices), AV devices, Household applications, FA devices, etc.