

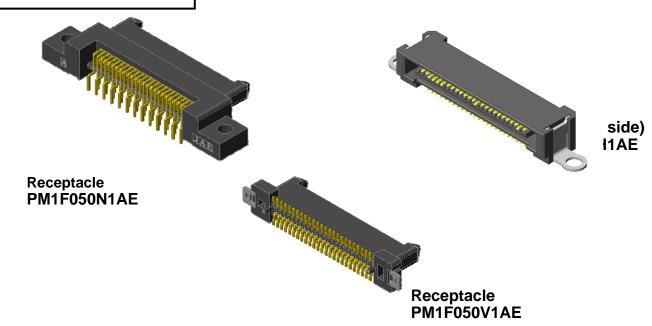


0.8mm pitch bay connector

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

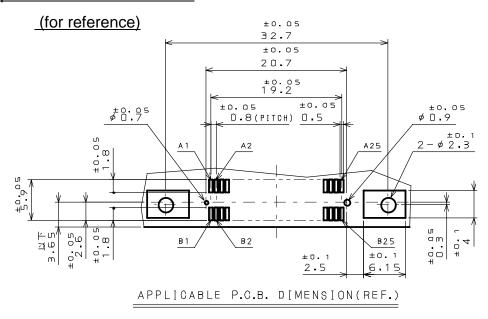
Componets	Materials	Finishes
Base Insulator	LCP filled with heat- resistant plastic glass	None(UL94V-0), Black
Contact	Copper alloy	Contact area: Au plating Terminal area: Sn plating over Ni
Reinforcement	Copper alloy	Sn type plating

Ordering Information PM₁ N Pb-free product <u>Series</u> 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 ±0.03 ±0.03 ×0.58 #0.0 #0.78 1.2 **Drawing when mated** A25 (for reference) PM1M050H1A 24.7 LOT 2-ø2.3 Applicable dimension of board В (for reference) ±0.05 ±0,05 <u>0</u>.9 ±0,05 ±0,05 Ø0.7 ±0.05 1.75 (PITCH) В2 B25 1.1 A 1 A25 50-- ø 2 ⋅ 3

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

Ordering Information PM1 M * * * Н Pb-free product Series 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 3 2 . 7 LOT No. R1.75 281 ±0.2 φ^{±0.1} A 2 5 B25 ±0.05 0.8 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 * * * PM₁ 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 **Drawing Number** SJ101423 Drawing when mated

1.36 28 1.36

24.7 (22.7) (22.7) (30.03) (40.03)

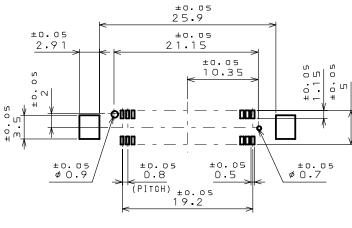
2.6 (0.6)

2.4) 0.6 4.8

(for reference)

Applicable dimension of board

(for reference)



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

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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.

^{*} The specifications in this brochure are subject to change without notice. Please contact JAE for information. JAE PMK Div. Proprietary. Copyright © 2006, Japan Aviation Electronics Industry, Ltd.