CHANGE SERIES

■ Introduction

- The GMM series connectors are available in all-mold housings.
- The GMM-A connectors are available in all-mold housings and have steel shells on the mating side, which is effective for prevention of EMI from outside and electrostatic noise
- All connectors are of the right angle type and are designed for mounting on printed-circuit boards, featuring low cost, high performance and high density connection
- Combination of these connectors with the GM, GMP or GMC connectors and accessories provide a wide variety of packaging modes. These are internationally accepted connectors.
- Packaging these connectors on PC boards allows interfacing with outside circuits by using the connector with case.

■ Electrical Data

	127 05 125	ESSOCIETY.	F at the	2.5 (8)	1189/04/26
Performance				Heim	
1 A				m t	Rated curre
300 V AC				90	Rated volta
1,000 V AC (RMS), one minute			MITT # 12	voltage	Withstand
5,000 MΩ or more at 500 V DC			2 1 1 1	esi stan c	Insulation :
20 m Ω or less				sis tance	Contact re:

■ Material and Finish

Egatact	Phosphor bronze	Gold plating over nickel
Housing	Glass-filled PBT resin	Color: black, UL94V-0

Features

- Economy
- 1. Low cost enabled by use of all-mold housing.
- Mounting labor can be reduced by using the earth lock pin.
- High performance
- 1. GMM-A is designed against electrostatic noise.
- Connectioin can be made securely, since the pin mounting hole in a closed entry type.
- 3. The press formed contactor assures stable contact.
- The insulator is of the self-quenching type authorized by UL.
- Ease of mounting
- 1. Use of a lock pin reduces labor for PC board mouting.
- Can be fixed with ordinary screws.
- Can be easily mounted on the PC board because the connector and bracket are integrated into a monoblock body.
- 4. No accidental shorting with other components because the terminal is has a molded cover.
- Can be mounted on a pattern because of the all-mold design.

Ordering Information

GMM-A25HUGDFDA1

1 234567

1 Series Prefix

Plating on Shell and Mounting Hole Shape

Blank:No shell

- A: Chromate coating over zinc plating
- C: Nickel plating
- G: Tin plating
- W: Without shell; mounting hole screws recessed
- X: Shell plated with tin; mounting hole screws recessed
- U: Without shell; four holes for PC board mounting
- X type; with four holes for PC board mounting
 Y: Plated with tin; shell and earth metal are integrated in a monoblock body.

3 Number of Contacts

9, 15, 25, 37, 50

- 4 Accessories 1 (screw lock, spring lock, etc.)
 - R: Metal fitting (M2.6 \times 0.45)
 - RU: Metal fitting (No. 4-40UNC)
 - H: Hexagon metal fitting (M2.6 IX 0.45)) For front
 - HU: Hexagon metal fitting (No. 4-40UNC) Panel
 - HV: Hexagon metal fitting (M3 × 0.5) mounting
 - Y: Hexagon metal fitting (M2.6 × 0.45) For rear panel
 - YU: Hexagon metal fitting (No. 4-40UNC) mounting,
 - YV: Hexagon metal fitting (M3 × 0.5) panel thickness 0.8mm
 - : Hexagon metal fitting (M2.6 × 0.45) For rear panel
 - JU: Hexagon metal fitting (No. 4-40UNC) mounting, panel
 - JV: Hexagon metal fitting (M3 × 0.5) thickness 1.6mm
 - S: Spring lock
 - U: Recessed screw (No. 4-40UNC)
- 5 Accessories 2 (earth metal fitting, lock pin, etc.)
 - G: Earth metal (both holes 3.2mm in dia.)
 - GA: Earth metal (connector mounting side 3.2mm in dia., board mounting side M2.6 \times 0.45)
 - GB: Earth metal (connector mounting side 3.2mm in dia., board mounting side $M3 \times 0.5$)
 - GD: Earth lock pin
 - *: GA is for FDA, MDA, and GB are for FDB and MDB.

6 Connector Terminal Style

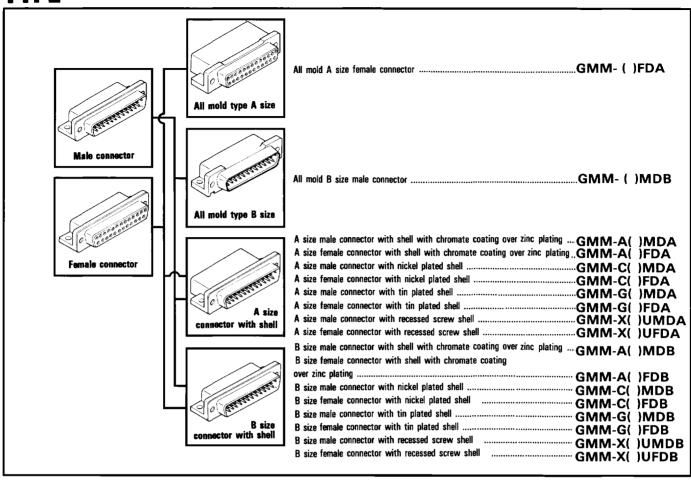
- MDA: Right angle DIP A size male connector
- MDB: Right angle DIP B size male connector
- FDA: Right angle DIP A size female connector
- FDB: Right angle DIP B size female connector

7 Plating on Contact

Blank: All gold plating 0.3 µm

- Partial gold plating (contact portion Au 0.3μm, DIP portion Sn 3μm)
- Partial gold plating (contact portion Au 0.76μm, DIP portion Sn 3μm)

TYPE



Earth Lock Pin (DIP Type)/Earth Metal (Screw Fixing Type)

• Earth lock pin (DIP type)



		Procite
A size	GMM-25GD	For all contacts
B size	GMM-A25GD	For 9,15,25,37 contacts
D 2176	GMM-A50GD	For 50 contacts

• Earth metal (screw fixing type)

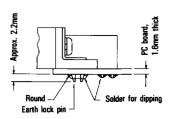


GMM-50G	For 50 contacts
GMM-25G	For 9,15,25,37 contacts
the ball	Lada

Mounting on PC Board

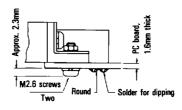
• With earth lock pin

Insert a connector into which the lock pin is press fitted into a PC board and solder the connector terminal and the lock pin to the PC board simultaneously for dipping.

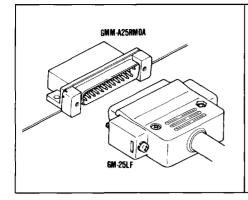


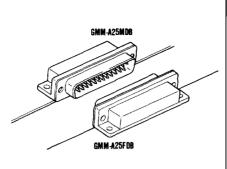
• With earth metal

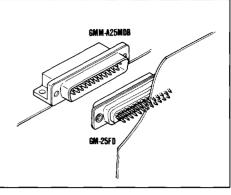
After inserting a connector into the PC board and tightening the screw, solder the connector terminal to the PC board for dipping.



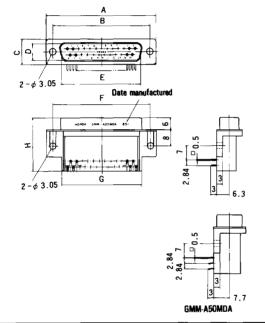
MALE CONNECTOR WITH SHELL

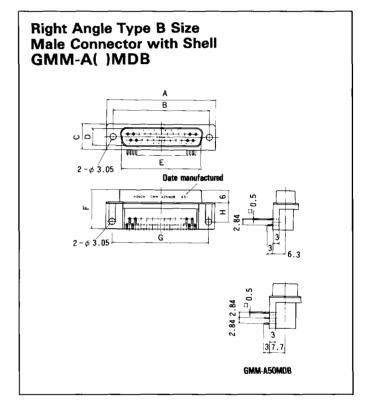






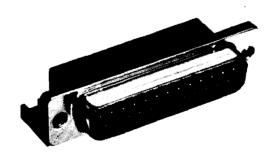
Right Angle Type A Size Male Connector with Shell GMM-A()MDA







GMM-A25MDA



GMM-A25MDB

Outside Dimensions

	Part No.	A	B	0	D	E	F	G	H
*	GMM-A9MDA	30.8	24.99			16.9	24.99	15.6	
*	GMM-A15MDA	39.1	33.32	10.6	8.34	25.24	33.32	24	25.9
	GMM-A25MDA	53.0	47.04	12.6		39.01	47.04	38	
*	GMM-A37MDA	69.3	63.50		8.4	55.47	63.50	54.4	
*	GMM-A50MDA	66.9	61 11	15.4	11 13	52.85	61 11	51.8	28.7

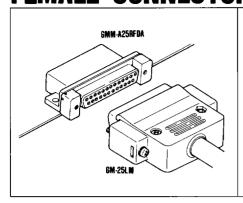
Items marked with * will become available in the very near future

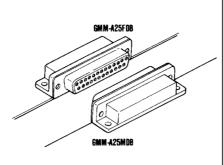
• Outside Dimensions

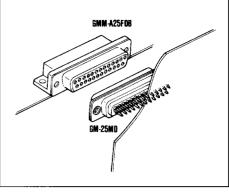
	Part No.	Α	В	D	D		F	G	H
*	GMM-A9MDB	30.9	24.99			16.9		24.99	
*	GMM-A15MD8	39.1	33.32	10 0	8.34	25.24	10	33.32	0.44
	GMM-A25MDB	53.0	47.04	12.6		39.01	19	47.04	9.44
	GMM-A37MDB	69.3	63.50		8.4	55.47		63.50	
*	GMM-A50MDB	66.9	61.11	15.4	11.13	52.85	21.8	61.11	10.83

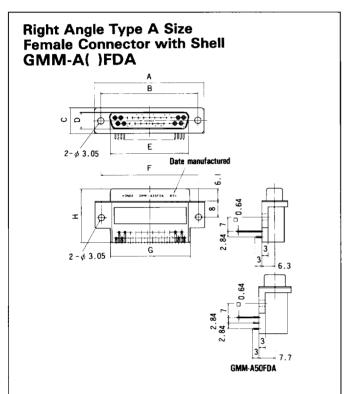
Items marked with * will become available in the very near future

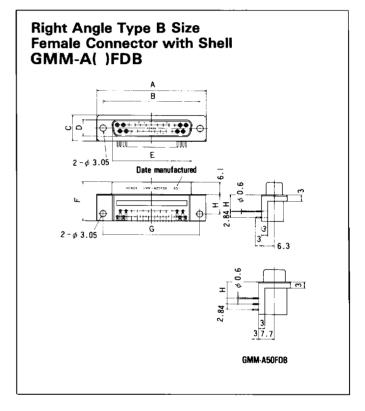
FEMALE CONNECTOR WITH SHELL

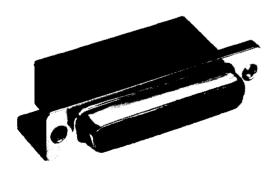




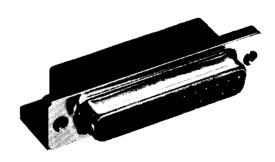








GMM-A25FDA



GMM-A25FDB

Outside Dimensions

Part Bs.	Α	В	C	D			G	H
GMM-A9FDA	30.8	24.99			16.26	24.99	15.6	
GMM-A15FDA	39.1	53.32	10 5	7.82	24.59	33.32	24.0	26.0
GMM-A25FDA	53.0	47.04	16.0	/.02	38.30	47.04	38.0	cu.u
GMM-A37FDA	69.3	63,50			54.76	63.50	54.4	
GMM-A50FDA	66.9	61 11	15.7	10.63	52 35	61 11	51.8	28.8

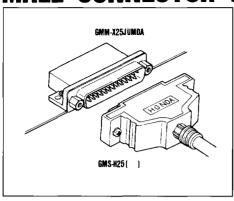
Items marked with # will become available in the very near future

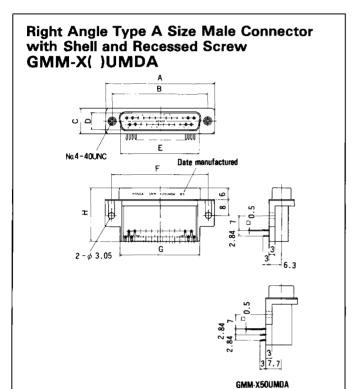
Outside Dimensions

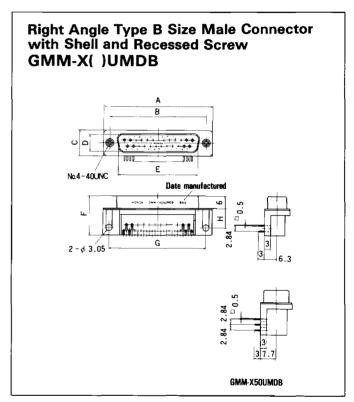
	Part No.	A	В	C	D	E	F	G	Н
	GMM-A9FDB	30.8	24.99			16.26		24.99	
	GMM-A15FDB	39.1	33.32	12.6	7 00	24.59	19.2	33.32	9.44
	GMM-A25FDB	53.0	47.04	10.0	7.82	38.30	19.6	47.04	9.44
	GMM-A37FDB	69.3	63.50			54.76		63.50	
*	GMM-A50FDB	66.9	61.11	15.4	10.63	52.35	22.0	61.11	10.83

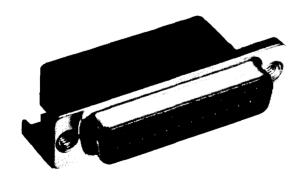
Items marked with # will become available in the very near future

MALE CONNECTOR WITH SHELL & RECESSED SCREW









GMM-X25UMDA

GMM-X25UMDB

• Outside Dimensions

Part Bo.	Α	В	C	0	E	F	G	Н
GMM-X9UMDA	30.8	24.99			16.9	24.99	15.6	
GMM-X15UMDA	39.1	33.32	10.0	8.34	25.24	33.32	24	25.9
GMM-X25UMDA	53.0	47.04	12.6		39.01	47.04	38	20.8
GMM-X37UMDA	69.3	63.50		8.4	55.47	63.50	54.4	
GMM-X50UMDA	66 Q	61 11	15.4	11 13	52 85	61 21	51.8	28.7

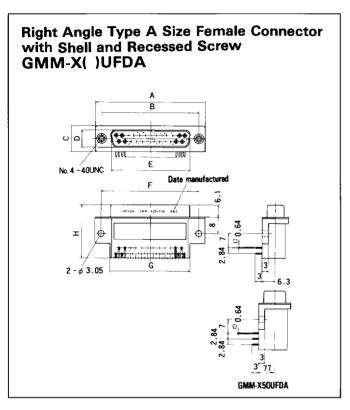
Items marked with * will become available in the very near future

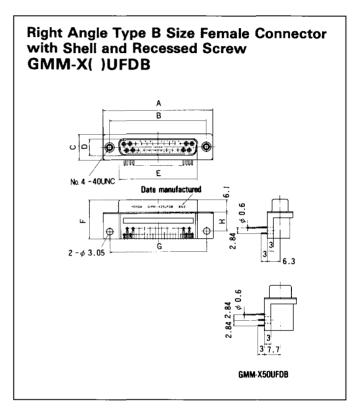
Outside Dimensions

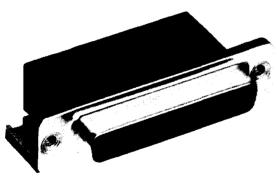
	Part No.	Α	В	C	D	E	F	G	Н
	GMM-X9UMDB	30.8	24.99			16.9		24.99	
	GMM-X15UMDB	39.1	33.32	12.6	8.34	25.24	19	33.32	0.44
	GMM-X25UMDB	53.0	47.04	12.6		39.01	19	47.04	9.44
*	GMM-X37UMOB	69.3	53.50		8.4	55.47		63.50	
*	GMM-X50UMDB	66.9	51.11	15.4	11.13	52.85	21.8	61.11	10.83

Items marked with * will become available in the very near future

FEMALE CONNECTOR WITH SHELL & RECESSED SCREW







GMM-X25UFDA

Outside Dimensions

1	Part No.	ΙΔ	В	C		F .		G	H
	GMM-X9UBFDB	30.8	24.99	PANGUARA MININ	r house of marine, the	16.26	<u> </u>	24.99	
	GMM-X15UFD8	39.1	33.32	10.0	7 00	24.59	1n n	33.32	0.44
	GMM-X25UFDB	53.0	47.04	12.6	7.82	38.30	19.2	47.04	9.44
	GMM-X37UFDB	69.3	63.50			54.76		63.50	1
*	GMM-X50UFDB	66.9	61.11	15.4	10.63	52.35	22.0	61.11	10.53

GMM-X25UFDB

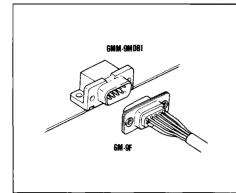
Items marked with * will become available in the very near future

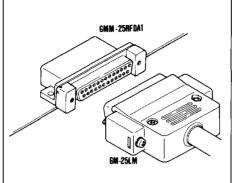
Outside Dimensions

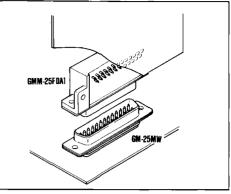
	Part No.	Α	В	C	D	E	F	G	H
1	GMM-X9UFDA	30.8	24.99			16.26	24.99	15.6	
	GMM-X15UFDA	39.1	33.52	10.6	7.82	26.39	33.32	24.0	26.0
	GMM-X25UFDA	53.0	47.04	10.0	7.00	38.30	47.04	38.0	20.0
•	GMM-X37UFDA	69.3	63.50			54.76	63.50	54.4	
ŧ	GMM-X50UFDA	66.9	61 11	15.4	10.63	52.35	61 11	51 B	28 A

Items marked with * will become available in the very near future

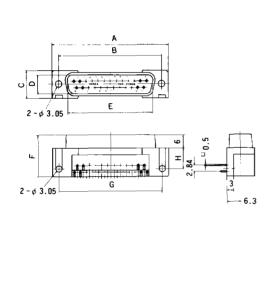
ALL-MOLD TYPE CONNECTOR

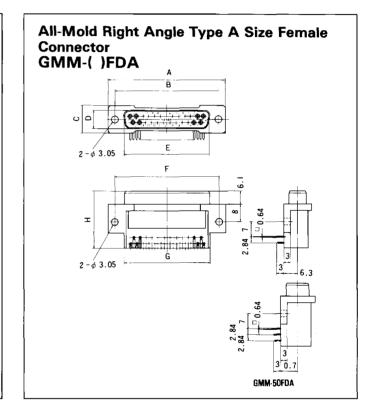






All-Mold Right Angle Type B Size Male Connector GMM-()MDB





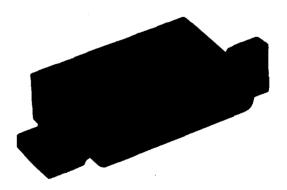


GMM-9MDB

Outside Dimensions

- 1	Fart le	Α	В	C	D	E	F	8	H
	GMM-9MDB	30.8	24.99			16.9		24.99	
*	GMM-15MDB	39.1	33.32	10.0	0.04	25.24	10	33.32	9.44
*	GMM-25MDB	53.0	47.04	12.6	8.34	39.01	19	47.04	9.44
*	GMM-37MDB	69.3	63.50		8.4	55.47		63.50	
*	GMM-50MDB	5E 9	61 11	15.7	11 13	52 85	21.8	61 11	10 83

Items marked with * will become available in the very near future



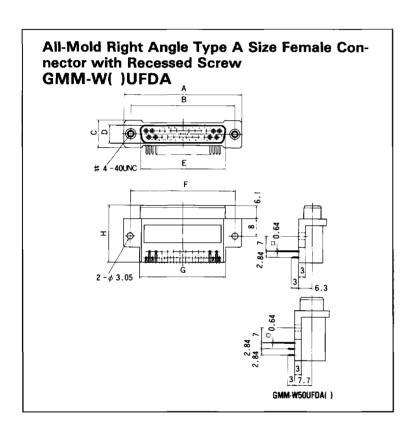
GMM-25FDA

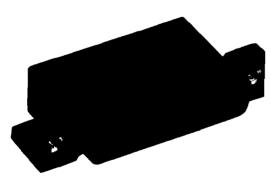
Outside Dimensions

	Pert No.	A	В	C	D	E	F	G	Н
	GMM-9FDA	30.8	24.99		7.82	16.26	24.99	15.6	26.0
*	GMM-15FDA	39.1	33.32	12.6		24.59	33.32	24.0	
	GMM-25FDA	53.0	47.04	16.0		38.30	47.04	38.0	
*	GMM-37FDA	59.3	63.50			54.76	63.50	54.4	
	GMM-50FDA	66 g	61 11	15.4	10 63	52 35	61 11	51.8	28 A

Items marked with # will become available in the very near future

ALL-MOLD CONNECTOR WITH RECESSED SCREW





GMM-W25UFDA

Outside Dimensions

j	Part Bo.	A	В	G	D	E		8	H
*	GMM-W9UFDA	30.8	24.99			16.26	24.99	15.6	
	GMM-W15UFDA	39.1	33.32	12.6	7 00	24.59	33.32	24.0	26.0
	GMM-W25UFDA	53.0	47.04	16.0	7.82	38.30	47.04	38.0	20.0
*	GMM-W37UFDA	69.3	63.50			54.76	63.50	54.4	
*	GMM-W50UFDA	66.9	61.11	15.4	10.63	52.35	61.11	51.8	28.8