

PC Card I/O Connectors

RMC Series

RMC series connectors are used on PC cards having input/output (I/O) capabilities such as LAN or modem for information processing equipment. These high density, low profile connectors feature 0.8mm pitch contacts for type I, II PC card applications.

Features

- Fully shielded for EMI protection.
- Low profile for Type I, II PC card applications.
- Simple squeeze to release latching mechanism for quick and reliable connections.
- Insulation displacement contact (IDC) and solder cup wire termination options for fast and reliable cable terminations.
- 2 polarization and 3 keying options provide 6 unique application options.

Specifications

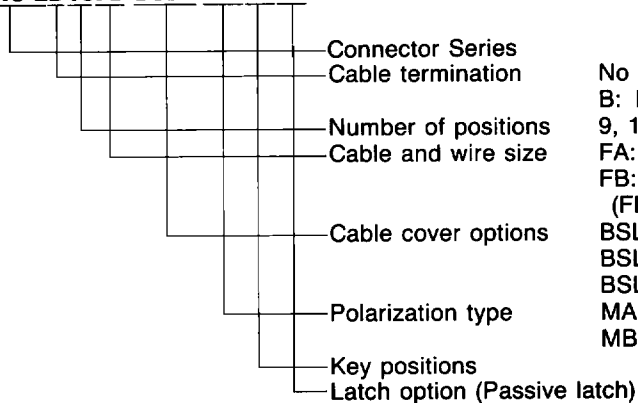
Rated current	DC 0.5A
Rated voltage	AC150V (r.m.s)
Withstanding voltage	AC500V (r.m.s) 1 minute
Insulation resistance	100MΩ min.
Operating temperature range	-55°C ~ +85°C (PC card connector) -55°C ~ +70°C (cable plug connector)
Durability	10,000 cycles office environment 5,000 cycles harsh environment

Material and Finish

Cable plug connector	
Insulator	Nylon 46, UL-94V-0
Contacts	Phosphor bronze Entire contact: Nickel underplate Mating area: Gold flash over palladium Termination area: Tin-lead
Cable plug shield and cover assembly	
Cover	PBT resin, UL 94V-0, black
Shields	Stainless steel, nickel plate
Male PCB connector	
Insulator	PPS resin, UL 94V-0
Contacts	Phosphor bronze Entire contact: Nickel underplate Mating area: Gold flash over palladium Termination area: Tin-lead

Ordering Information

PC Card I/O Cable Plug Connector RMC-EB15FB-BSLA-MB12-SL



No symbol: Solder cup

B: IDC

9, 15

FA: AWG #28 (7/0.127)

FB: AWG #30 (7/0.1)

(FB: Applies to solder cup for AWG #28 and #30 wire sizes)

BSLA: Slide-on cable cover

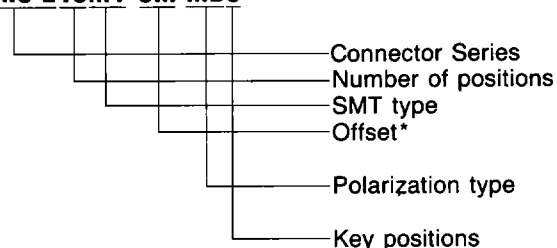
BSLA3: Overmold cable cover for cable OD < 4mm

BSLA6: Overmold cable cover for cable 4mm ≤ OD ≤ 5mm

MA: LAN and other I/O applications

MB: Modem applications

PC Card I/O Card Connector RMC-E15MY-OM-MB3



9, 15

OM: 0.3mm

OM06: 0.6mm

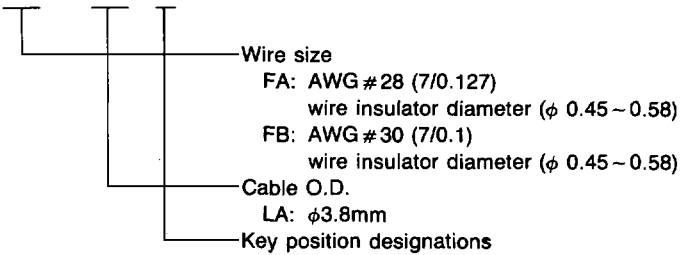
MA: LAN and other I/O applications

MB: Modem applications

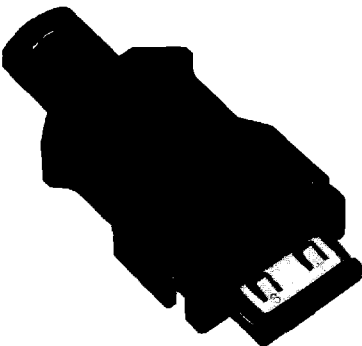
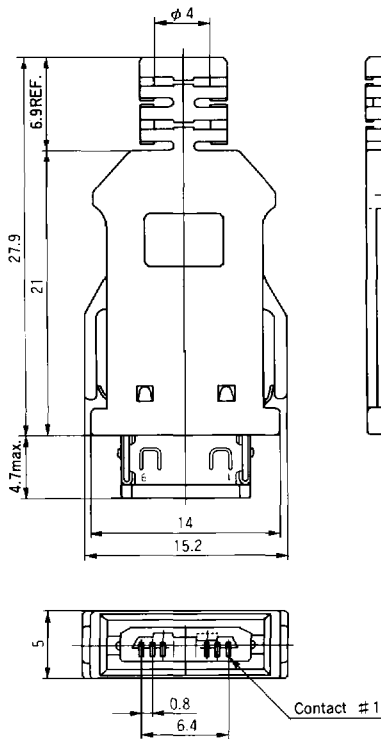
*Offset defined as connector centerline to top of PCB.

PC Card I/O Cable Plug Assembly, 9 Position, IDC Wire Termination

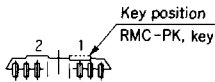
Part Number ● RMC-EB9FB-BSLA-A1



A type polarization



Key position designation



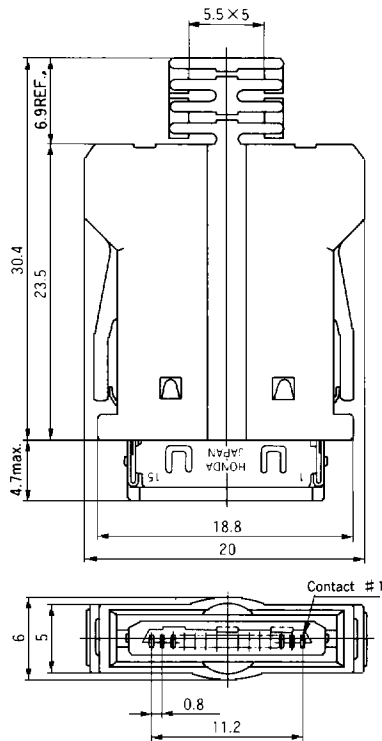
Part number	Key position	Key position part no. designation	Mating connector
RMC-EB9F()-BSLA-A1	1	A1	RMC-E9MY-OM-A2
RMC-EB9F()-BSLA-A2	2	A2	RMC-E9MY-OM-A1

PC Card I/O Cable Plug Assembly, 15 Position

Part Number

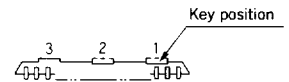
● RMC-EB15FB-BSLA-MA12-SL

A type polarization



- Cable termination
 - EB: IDC wire termination
 - E : Solder cup wire termination
- Wire size
 - FA: AWG #28 (7/0.127)
 - wire insulation diameter (ϕ 0.45 ~ 0.58)
 - FB: AWG #30 (7/0.1)
 - wire insulation diameter (ϕ 0.45 ~ 0.58)
- Cable O.D.
 - LA: ϕ 5mm
- Key position designations
- Latch option (passive latch)

Key position and designation

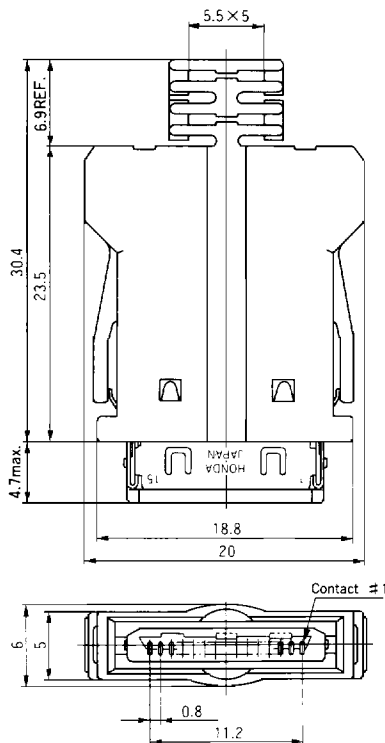


Part number	Key position	Key position part no. designation	Mating connector
RMC-E(B)15F()-BSLA-MA12	12	A12	RMC-E15MY-OM-MA3
RMC-E(B)15F()-BSLA-MA13	13	A13	RMC-E15MY-OM-MA2
RMC-E(B)15F()-BSLA-MA23	23	A23	RMC-E15MY-OM-MA1

Part Number

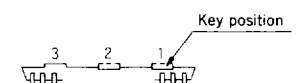
● RMC-EB15FB-BSLA-MB12-BK-SL

B type polarization



- Cable termination
 - EB: IDC wire termination
 - E : Solder cup wire termination
- Wire size
 - FA: AWG #28 (7/0.127)
 - wire insulator diameter (ϕ 0.45 ~ 0.58)
 - FB: AWG #30 (7/0.1)
 - wire insulator diameter (ϕ 0.45 ~ 0.58)
- Cable O.D.
 - LA: ϕ 5mm
- Key position designations
- Insulator color
 - No symbol: Brown
 - BK: Black
- Latch option (passive latch)

Key position and designation

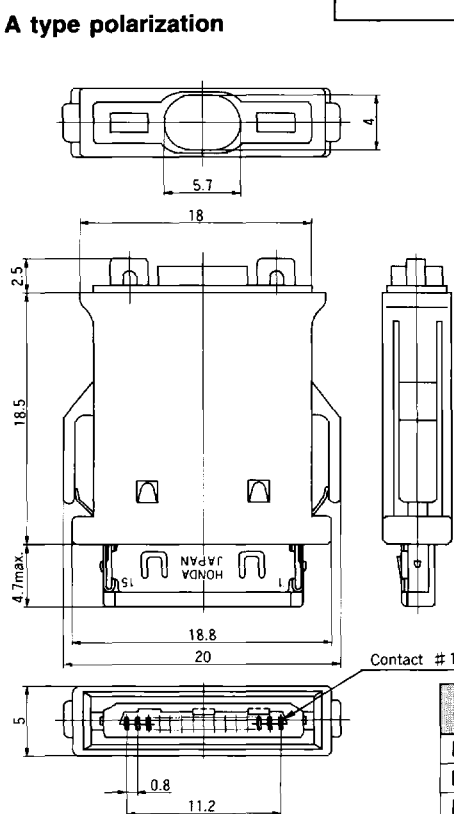


Part number	Key position	Key position part no. designation	Mating connector
RMC-E(B)15F()-BSLA-MB12	12	B12	RMC-E15MY-OM-MB3
RMC-E(B)15F()-BSLA-MB13	13	B13	RMC-E15MY-OM-MB2
RMC-E(B)15F()-BSLA-MB23	23	B23	RMC-E15MY-OM-MB1

PC Card I/O Cable Plug Assembly, 15 Position, Overmold

Part Number ● RMC-E15FB-BSLA3-MA12

A type polarization



Cable termination

EB: IDC wire termination

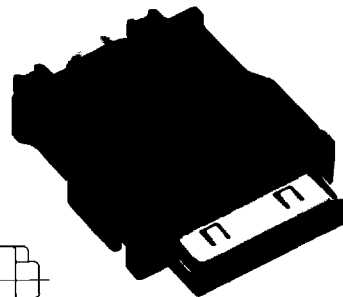
E : Solder cup wire termination

Cable cover options

BSLA3: Overmold cable cover for cable OD < 4mm

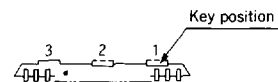
BSLA6: Overmold cable cover for cable 4mm ≤ OD ≤ 5mm

Key position designations



RMC-E(B)FB-BSLA6

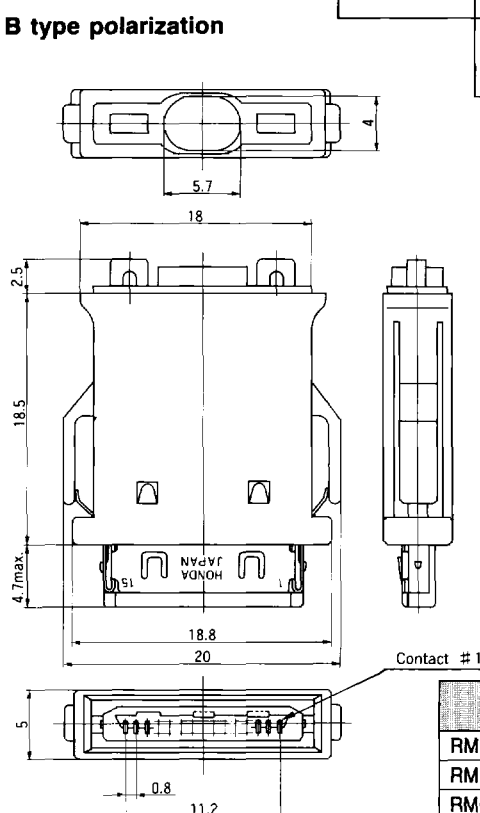
Key position and designation



Part number	Key position	Key position part no. designation	Mating connector
RMC-E(B)15FB-BSLA()-MA12	12	A12	RMC-E15MY-OM-MA3
RMC-E(B)15FB-BSLA()-MA13	13	A13	RMC-E15MY-OM-MA2
RMC-E(B)15FB-BSLA()-MA23	23	A23	RMC-E15MY-OM-MA1

Part Number ● RMC-E15FB-BSLA3-MB12-BK

B type polarization



Cable termination

EB: IDC wire termination

E : Solder cup wire termination

Cable cover options

BSLA3: Overmold cable cover for cable OD < 4mm

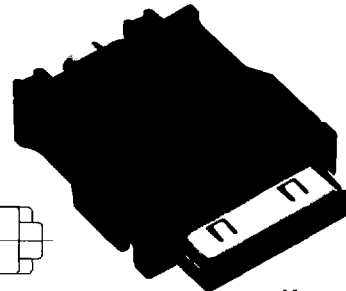
BSLA6: Overmold cable cover for cable 4mm ≤ OD ≤ 5mm

Key position designations

Insulator color

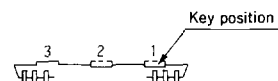
No symbol: Brown

BK: Black



RMC-E(B)FB-BSLA6

Key position and designation

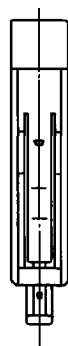
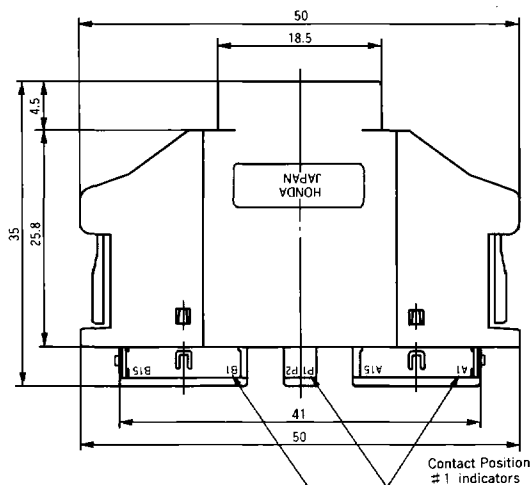


Part number	Key position	Key position part no. designation	Mating connector
RMC-E(B)15FB-BSLA()-MB12	12	B12	RMC-E15MY-OM-MB3
RMC-E(B)15FB-BSLA()-MB13	13	B13	RMC-E15MY-OM-MB2
RMC-E(B)15FB-BSLA()-MB23	23	B23	RMC-E15MY-OM-MB1

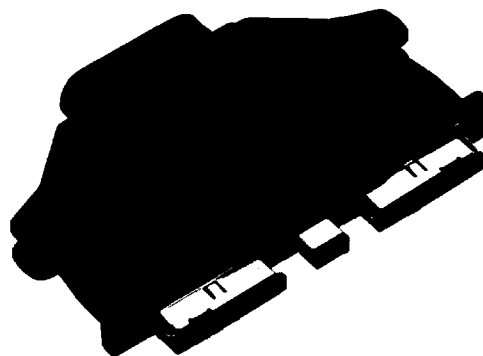
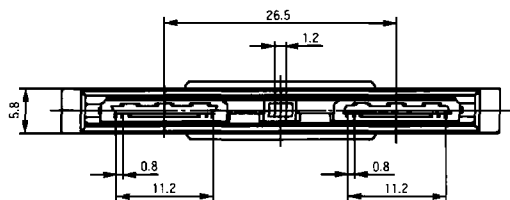
PC Card I/O Cable Plug Assembly, 32 Position, IDC Wire Termination

Part Number ● RMC-EB32FB-BSLA-A12B12

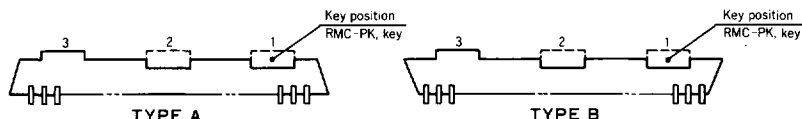
Wire size
 FA: AWG #28 (7/0.127)
 wire insulator diameter (ϕ 0.45 ~ 0.58)
 FB: AWG #30 (7/0.1)
 wire insulator diameter (ϕ 0.45 ~ 0.58)
 Cable O.D.
 LA: 4.2 × 15.9
 Key position designations



Combination type connector of one 15 position type A, one 15 position type B



Key position and designation

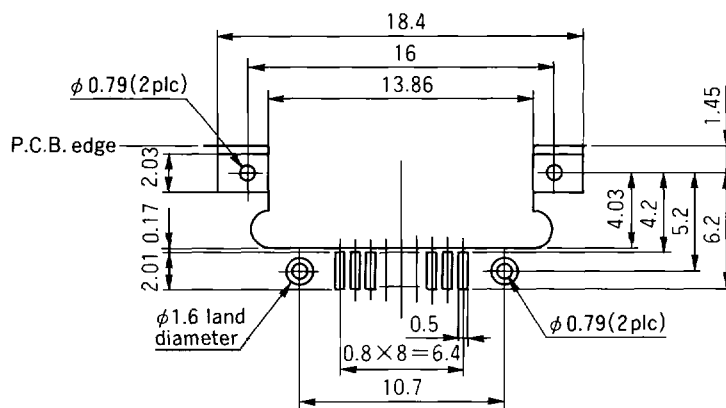
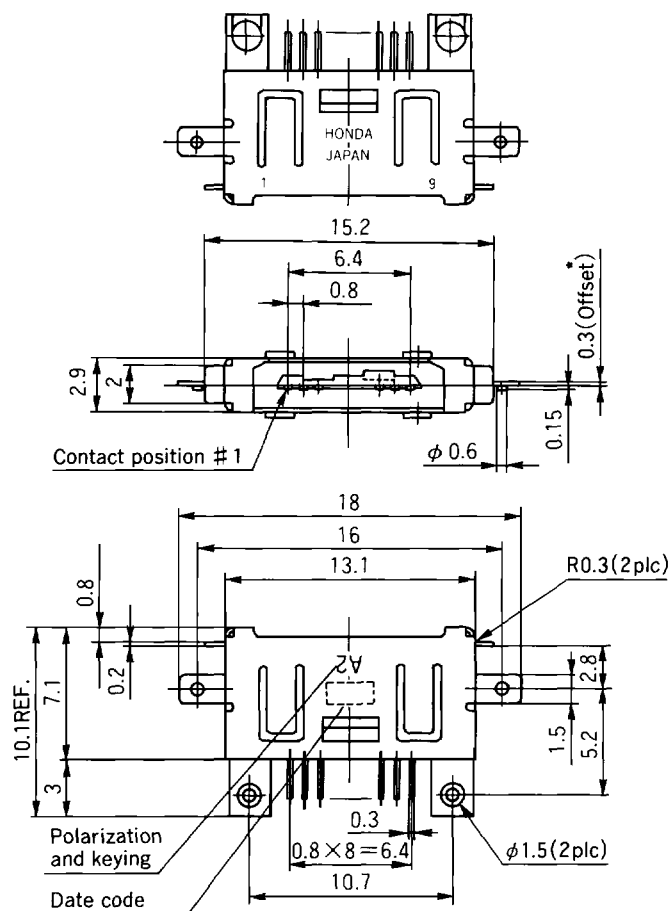


Part number	Key pos. (Type A)	Key position part no. designation (Type A)	Key pos. (Type B)	Key position part no. designation (Type B)	Mating connector
RMC-EB32F()-BSLA-A12B12	12	A12	12	B12	RMC-E32MY-A3B3 RMC-E32MY-OM()-A3B3
RMC-EB32F()-BSLA-A13B13	13	A13	13	B13	RMC-E32MY-A2B2 RMC-E32MY-OM()-A2B2
RMC-EB32F()-BSLA-A23B23	23	A23	23	B23	RMC-E32MY-A1B1 RMC-E32MY-OM()-A1B1
RMC-EB32F()-BSLA-A13B12	13	A13	12	B12	RMC-E32MY-A2B3 RMC-E32MY-OM()-A2B3

PC Card I/O PCB Connector, 9 Position, Male, 0.3mm Offset

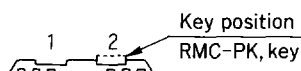
Part Number ● RMC-E9MY-OM-A2

Key position designations



Recommended PCB layout

Key position and designation

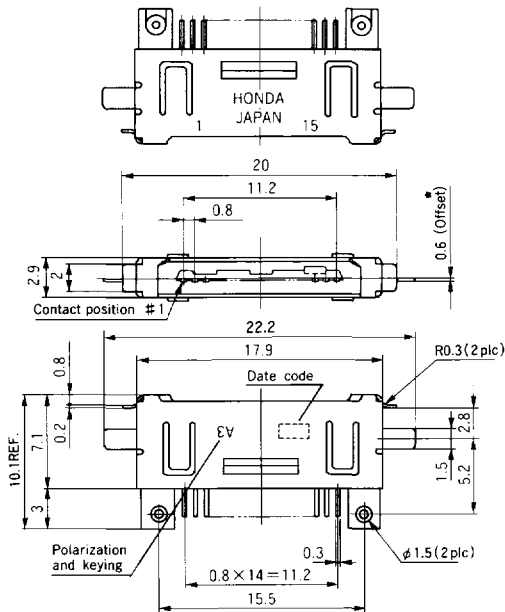


Part number	Key position	Key position part no. designation	Mating connector
RMC-E9MY-OM-A2	2	A2	RMC-EB9F()-BSLA-A1
RMC-E9MY-OM-A1	1	A1	RMC-EB9F()-BSLA-A2

*Offset defined as connector centerline to top of PCB.

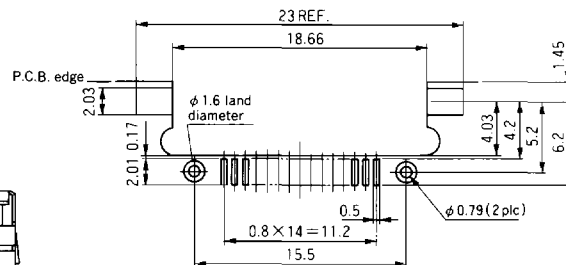
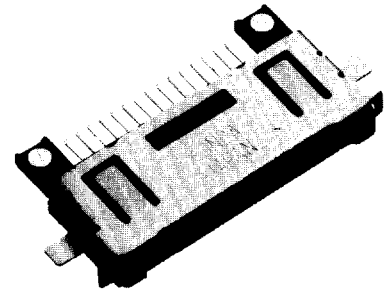
PC Card I/O PCB Connector, 15 Position, Male, 0.6mm Offset

Part Number ● RMC-E15MY-OM06-MA3



Key position designations

MA1: Reserved
MA2: PCMCIA open system LAN
MA3: Available



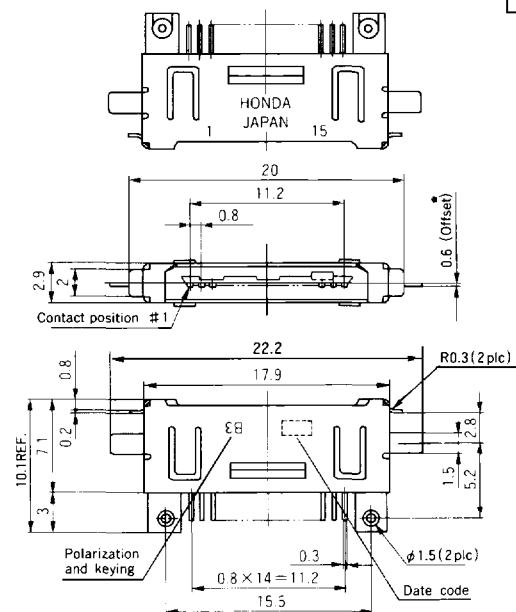
Recommended PCB layout

Key position and designation



Part number	Key position	Key position part no. designation	Mating connector
RMC-E15MY-OM06-MA3	3	A3	RMC-E15F()-BSLA-MA12
RMC-E15MY-OM06-MA2	2	A2	RMC-E15F()-BSLA-MA13
RMC-E15MY-OM06-MA1	1	A1	RMC-E15F()-BSLA-MA23

Part Number ● RMC-E15MY-OM06-MB3-BK

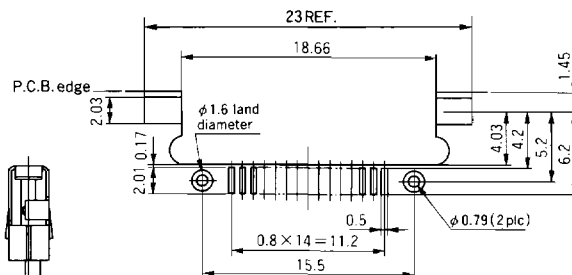
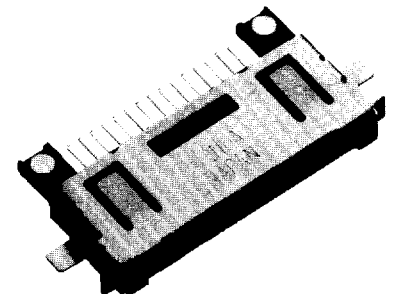


Key position designations

MB1: Reserved
MB2: Reserved
MB3: Available

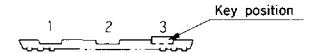
Insulator color

No symbol: Brown
BK: Black



Recommended PCB layout

Key position and designation



Part number	Key position	Key position part no. designation	Mating connector
RMC-E15MY-OM06-MB3	3	B3	RMC-E15F()-BSLA-MB12
RMC-E15MY-OM06-MB2	2	B2	RMC-E15F()-BSLA-MB13
RMC-E15MY-OM06-MB1	1	B1	RMC-E15F()-BSLA-MB23

*Offset defined as connector centerline to top of PCB.

PC Card I/O PCB Connector, 32 Position, Male

Part Number ● RMC-E32MY-OM02-A3B3

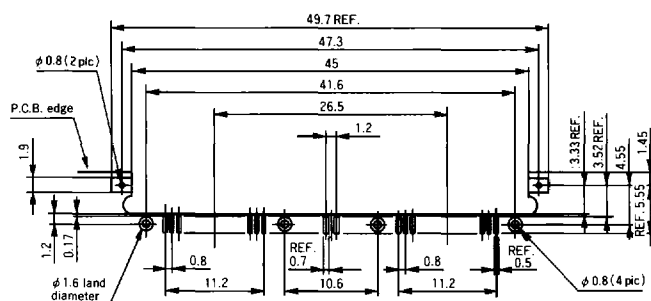
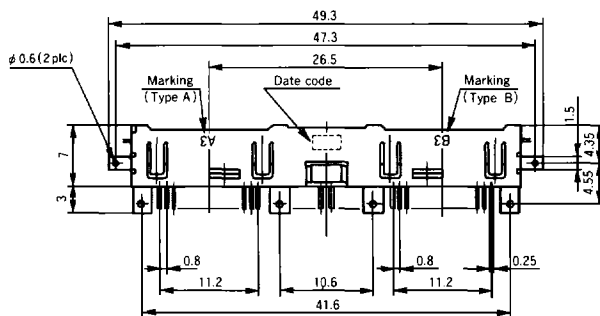
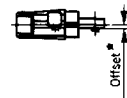
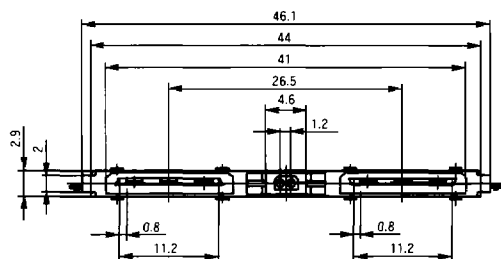
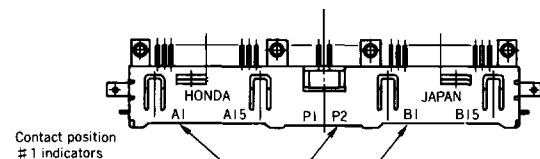
Offset*

No symbol: 0 mm
 OM02 : 0.2 mm
 OM03 : 0.3 mm
 OM06 : 0.6 mm

Key position designations

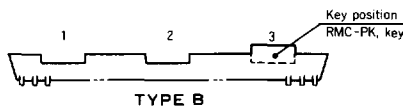
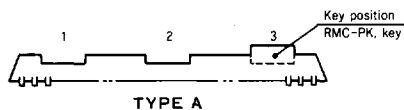
A1: Reserved (A type)
 A2: PCMCIA open system LAN (A type)
 A3: Available (A type)
 B1: Reserved (B type)
 B2: Reserved (B type)
 B3: Available (B type)

Combination type connector of one
 15 position type A, one 15 position
 type B.



Recommended PCB layout

Key position and designation



Part number	Key pos. (Type A)	Key position part no. designation (Type A)	Key pos. (Type B)	Key position part no. designation (Type B)	Mating connector
RMC-E32MY-A3B3	3	A3	3	B3	RMC-EB32F()-BSLA-A12B12
RMC-E32MY-OM()-A3B3					
RMC-E32MY-A2B2	2	A2	2	B2	RMC-EB32F()-BSLA-A13B13
RMC-E32MY-OM()-A2B2					
RMC-E32MY-A1B1	1	A1	1	B1	RMC-EB32F()-BSLA-A23B23
RMC-E32MY-OM()-A1B1					
RMC-E32MY-A2B3	2	A2	3	B3	RMC-EB32F()-BSLA-A13B12
RMC-E32MY-OM()-A2B3					

*Offset defined as connector centerline to top of PCB.