Panasonic ideas for life

I/O connectors for portable equipment Receptacle

18, 22, 24 and 26 contacts



50 contacts



System connector ultra low profile type Plug (cable connection type) 18, 22, 24 and 26 contacts



I/O connectors for portable equipment Plug (cable connection type) 50 contacts



System connector ultra low profile type Plug (Board mounting type) 22, 26 and 50 contacts



Customizable for several contacts. Ask about details.

Compliance with RoHS Directive

FOR CELLULAR PHONE: **ULTRA LOW PROFILE TYPE** FOR PORTABLE EQUIPMENT (0.5mm PITCH)

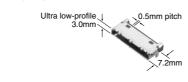
SYSTEM CONNECTORS ULTRA-LOW PROFILE TYPE (AXR3) I/O CONNECTORS FOR PORTABLE **EQUIPMENT (AXR5)**

FEATURES

1. Compact receptacle helps to design lighter, slimmer, smaller devices.

I/O connector for portable equipment

• 18, 22, 24 and 26 contacts

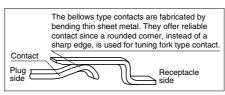


50 contacts



2. Bellows-type contacts

Our bellows-type contacts resist mating stress and offer high contact reliability.



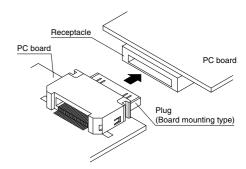
- 3. Coaxial portion with switching function (1 Form B configuration) can be applied up to 2GHz.
- 4. Connection of incorrect pairs is prevented by cross-manufacturer mating error prevention key.

By changing the location of the mating error prevention key, erroneous insertion of a different connector is prevented. This eliminates the chance of any problems that may be caused by mistaken connections. Please consult us for more information.



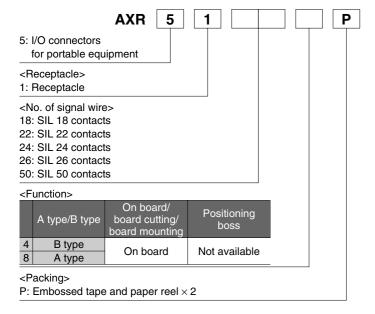
The key groove is different for every customer.

5. Plugs with 22, 26 and 50 contacts are also available in board mounting types. These are ideal for such applications as the connection between PDAs and datacommunication cradles.



ORDERING INFORMATION

1. I/O connectors for portable equipment receptacle



2. System connectors ultra-low profile type plug

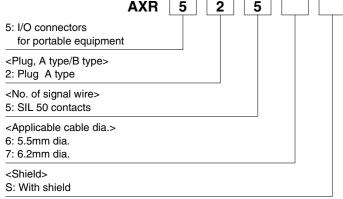
Į.	XR	3	0		4	
3: System connectors ultra-low profile type						
<plug> 0: Plug</plug>						
<no. of="" signal="" wire=""> 2: SIL 18 contacts 3: SIL 22 contacts 4: SIL 24 contacts 5: SIL 26 contacts 6: SIL 50 contacts <applicable receptacle=""> On board/board cuttin 4 On board</applicable></no.>	g N	lo. of co With		in		
<function></function>						
Cable connection type/ Board mounting type	A type	/B type	Shie	eld		
0 1 Cable connection type		ype ype	Availa	able		
Cable connection type		ype ype	No availa	-		
5 A Board mounting type	A t	ype ype	Availa	able		

<Packing>

Nil: Embossed tape and paper reel \times 2

* Board mounting type only.

3. I/O connectors for portable equipment plug



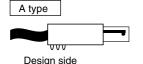
Note) Applicable for cable connection type 50 contacts

RECEPTACLE AND PLUG COMPATIBILITY TABLE

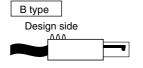
Combination table

- 1. Signal terminals 18 to 50 contacts
- 1) Plug (Cable connection type)





 Corresponds to on board mounting type receptacle
 50 contacts



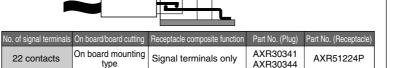
 Corresponds to on board mounting type receptacle
 18, 22, 24 and 26 contacts

Plug (A type)-Receptacle (A type) are mated No. of signal terminals On board/board cutting Receptacle composite function To board mounting type Signal terminals only

Plug (B type)-Receptacle (A type) are mated						

Plug (B type)-Receptacle (B type) are mated

No. of signal terminals	On board/board cutting	Receptacle composite function	Part No. (Plug)	Part No. (Receptacle)
18 contacts		Signal terminals only	AXR30244	AXR51188P
22 contacts	On board mounting type			AXR51228P
24 contacts		Signal terminals only	AXR30444	AXR51248P
26 contacts		Signal terminals only	AXR30541	AXR51268P



Receptacle

Part No. (Receptacle

AXR51508P

Part No. (Plug) AXR5256S

AXR5257S





On board mounting type
18, 24, 26 and
50 contacts



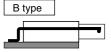
 On board mounting type
 22 contacts

Plug (Board mounting type)



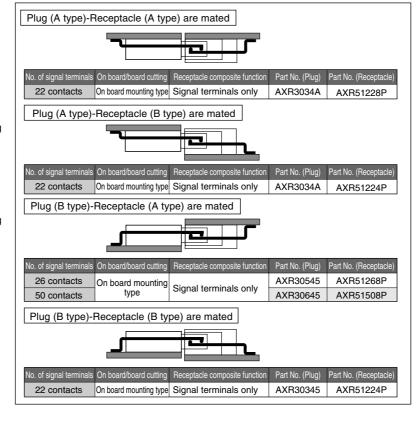


 Corresponds to on board mounting type receptacle 22 contacts



 Corresponds to on board mounting type receptacle
 22, 26 and 50 contacts

Combination table



Receptacle





On board mounting type
22, 26 and 50 contacts



 On board mounting type
 22 contacts

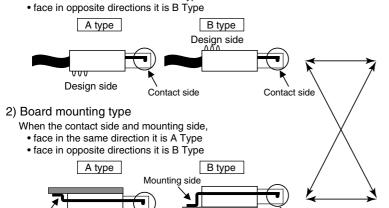
3. Information about A and B types

• Plug

1) Cable connection type

When the contact side and design side,

• face in the same direction it is A Type

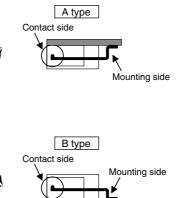


Contact side

Receptacle

When the contact side and mounting side,

- face face in opposite directions it is A Type
- face the in the same direction it is B Type



PRODUCT TYPES

1. Receptacle

Mounting side

No. of	Time	No. of	No. of battery terminal	Part No.	Packing quantity		
signal terminals	Type	coaxial	No. or battery terminal	Fait No.	Inner carton (1 reel)	Outer carton	
18 contacts	On board mounting type (A type)	None	None	AXR51188P	1,000 pcs.	2,000 pcs.	
22 contacts	On board mounting type (A type)	None	None	AXR51228P	1,000 pcs.	2,000 pcs.	
22 contacts	On board mounting type (B type)	None	None	AXR51224P	1,000 pcs.	2,000 pcs.	
24 contacts	On board mounting type (A type)	None	None	AXR51248P	1,000 pcs.	2,000 pcs.	
26 contacts	On board mounting type (A type)	None	None	AXR51268P	1,000 pcs.	2,000 pcs.	
50 contacts	On board mounting type (A type)	None	None	AXR51508P	750 pcs.	1,500 pcs.	

Contact side

2. Plug (Cable connection type)

No. of	Applicable recenteels	Tuno	pe EMI immunity Part No.		Packing	quantity	
signal terminals	Applicable receptacle	Type	EWII IIIIIIIIIIIIII	rait No.	Inner carton	Outer carton	
18 contacts	On board mounting type	B type	Not available	AXR30244	-	600 pcs.	
22 contacts	22 contacts On board mounting type	On board mounting type	Phys	Available	AXR30341	-	600 pcs.
22 Contacts		B type	Not available	AXR30344	_	600 pcs.	
24 contacts	On board mounting type	B type	Not available	AXR30444	-	600 pcs.	
26 contacts	On board mounting type	B type	Available	AXR30541	_	600 pcs.	
50 contacts	On board mounting type	A type	Available	AXR5256S (for 5.5 dia. cable)	-	200 pcs.	
50 contacts	On board mounting type	A type	Available	AXR5257S (for 6.2 dia. cable)	-	200 pcs.	

Note) For cellular phones and other applications where problems of insertion into the wrong device is possible, the location of the key will be changed for each order. An order number will be set for each separate order.

3. Plug (PC board mounting type)

No. of	Type	Tuno EMI		Packing quantity		
signal terminals	Туре	countermeasure	Part No.	Inner carton	Outer carton	
22 contacts	On board mounting type (A type)	Available	AXR3034A	500 pcs.	1,000 pcs.	
22 contacts On board	On board mounting type (B type)	Available	AXR30345	500 pcs.	1,000 pcs.	
26 contacts	On board mounting type (B type)	Available	AXR30545	500 pcs.	1,000 pcs.	
50 contacts	On board mounting type (B type)	Available	AXR30645	500 pcs.	1,000 pcs.	

Note) For cellular phones and other applications where problems of insertion into the wrong device is possible, the location of the key will be changed for each order. An order number will be set for each separate order.

SPECIFICATIONS

1. Characteristics

1) Receptacle-Plug (cable connection type)

				0 171			
	Item		18 , 22, 24 contacts	26 contacts	50 contacts	Condition	
	Rated Signal contact			ssed through two terminals al for all terminals is max.		_	
	Current	Battery contact	2 A	\	_	Characteristic of receptacle alone.	
	Contact	Signal contact		Measured based on the milliohmmeter measurement method of JIS C 5402, except for the resistance of the cord on the plug side.			
Electrical characteristics	resistance		Max. 50ms	2 (Initial)	_	Measured based on the milliohmmeter measurement method of JIS C 5402, except for the resistance of the terminals on the battery side.	
	Insulation res	sistance		Using 500V DC megger (applied for 1 min.)			
	Breakdown voltage			Rated voltage is applied for one minute and check for short circuit or damage with a detection current of 1 mA.			
Mechanical characteristics	Lever lock str	rength	Min. 49N {5kgf}			The plug is pulled off with the connectors mated.	
Lifetime characteristics	Insertion and removal life of plug and receptacle		Mechanical life: 10,000 times Contact resistance after testin Max. 110m Ω	Contact resistance after testing:		The connectors are connected and disconnected at a rate of 200 times/hour or less.	
	Ambient tem	perature		−35°C to +65°C		No freezing or condensation in low temperatures	
Environmental	Storage temp	perature		-40°C to +70°C (The allowable storage temperature is -40°C to +50°C if unopened from original packaging)			
characteristics	Resistance to soldering	Receptacle	Reflow soldering: peak temperature 245°C or less		1 0 1 0 0/		
	heat	Plug	Hand soldering: So	oldering iron temperature 3	300°C, 5 sec. or less	_	
Unit weight			Receptacle (AXR35371P) 22 Plug (AXR30341) 22 contacts		Receptacle (AXR51508P) 50 contacts: 1.42 g Plug (AXR5256S) 50 contacts: 11.1 g	_	

2) Receptacle-Plug (Board mounting type)

	Item		Specifications	Condition	
	- Item		22, 26, 50 contacts	Condition	
	Rated current	Signal contact	0.5 A (7 A can be passed through all terminals connected) (The total for 50 terminals is max. 10 A.)	_	
Electrical characteristics	Contact resistance	Signal contact	22 contacts (A type) Max. 110 m Ω (Initial) 22 contacts (B type) Max. 140 m Ω (Initial) 26 contacts (B type) Max. 110 m Ω (Initial) 50 contacts (B type) Max. 110 m Ω (Initial)	Measured based on the milliohmmeter measurement method of JIS C 5402	
	Insulation res	sistance	Min. 1,000MΩ (Initial)	Using 500V DC megger (applied for 1 min.)	
Breakdown voltage		oltage	150 V AC for 1 min.	Rated voltage is applied for one minute and check for short circuit or damage with a detection current of 1 mA.	
Lifetime characteristics	Insertion and of plug and re		Mechanical life: 5,000 times Contact resistance after testing: Max. 110 mΩ (Contact resistance after testing satisfies initial value.)	The connectors are connected and disconnected at a rate of 200 times/hour or less.	
	Ambient tem	Ambient temperature -35°C to +65°C		No freezing or condensation in low temperatures	
Environmental	Storage temp	perature	-40°C to +70°C (The allowable storage temperature is -40°C to +50°C if unopened from original packaging)	No freezing or condensation in low temperatures	
characteristics Resistance to solderin heat		Plug	Reflow soldering: peak temperature 245°C or less	Surface temperature (shell) from infrared reflow soldering machine	
Unit weight			22 contacts (A type): 1.43 g, 22 contacts (B type): 1.53 g, 26 contacts (B type): 1.48 g, 50 contacts (B type): 2.30 g	_	

Note) Refer to above table for the characterics of the receptacle.

2. Material and surface treatment

	Portion	Material	Surface
	Resin-molding portion	Heat resistant resin (UL94V-0)	_
	Shell	Stainless steel	Cu plating base, Sn plating on surface
песеріасіе	Post	Copper alloy	Contact portion: Ni plating on base, PdNi + Au flash plating on surface Terminal portion: Ni plating on base, Au plating on surface (except for end of the terminal)
	Battery contact	Copper alloy	Contact portion: Ni plating on base, Au plating on surface Terminal portion: Ni plating on base, Au plating on surface (except for end of the terminal)
	Resin-molding portion	Heat resistant resin (UL94V-0) Only bushing is polyurethane resin (UL94HB)	_
Plug	Shell	Stainless steel	_
cable connection ype)	Contact	Copper alloy	Contact portion: Ni plating on base, PdNi + Au flash plating on surface Signal wire soldering portion: Ni plating on base, Au plating on surface
	Tapping screw	Carbon steel	Rust proofed
	Insulation plate	Phenolic resin or PBT	_
	Resin-molding portion	Heat resistant resin (UL94V-0)	_
Plug (Board mounting type)	Shell	Stainless steel	Cu plating base, Sn plating on surface
	Contact	Copper alloy	Contact portion: Ni plating on base, PdNi + Au flash plating on surface Terminal portion: Ni plating on base, Au plating on surface (except for end of the terminal)

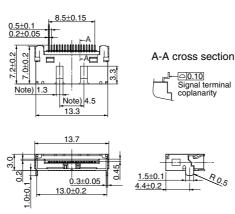
DIMENSIONS (Unit: mm)

The CAD data of the products with a CAD Data mark can be downloaded from: http://panasonic-electric-works.net/ac

1. Signal terminals 18 contacts/On board mounting type

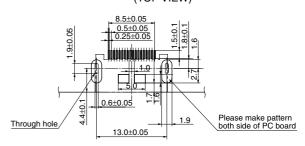
• Receptacle (A type) AXR51188P





General tolerance: ±0.3

Recommended PC board pattern (TOP VIEW)



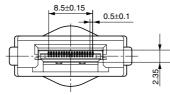
Notes) 1. The position of the cross-manufacturer mating error prevention key, if requested, can be set for each user when the detailed specifications are being decided. 2. Since product bottom is a metal shell, do not make pattern circuits (to prevent shorting).

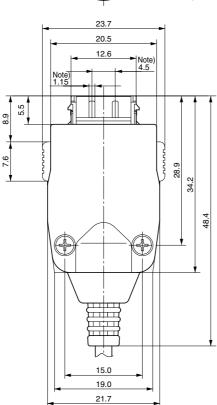
Note) The position of the cross-manufacturer mating error prevention key, if requested, can be set for each user when the detailed specifications are being decided.

• Plug (cable connection type) (B type)

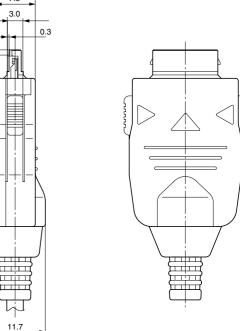
(assembled condition) AXR30244





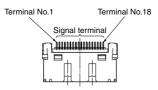


7.8 3.0 0.3



General tolerance: ±0.3

No. of signal terminal (A type)

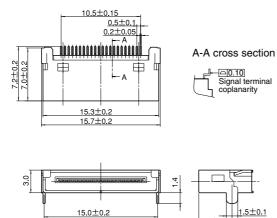


2. Signal terminals 22 contacts/On board mounting type

• Receptacle (A type)

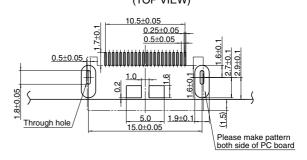
AXR51228P CAD Data





General tolerance: ±0.3

Recommended PC board pattern (TOP VIEW)

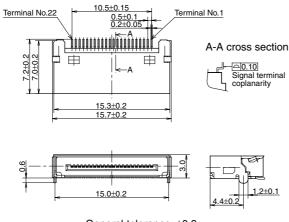


Notes) 1. The position of the cross-manufacturer mating error prevention key, if requested, can be set for each user when the detailed specifications are being decided. 2. Since product bottom is a metal shell, do not make pattern circuits (to prevent shorting).

• Receptacle (B type) AXR51224P

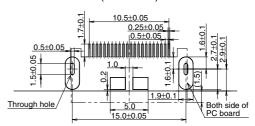






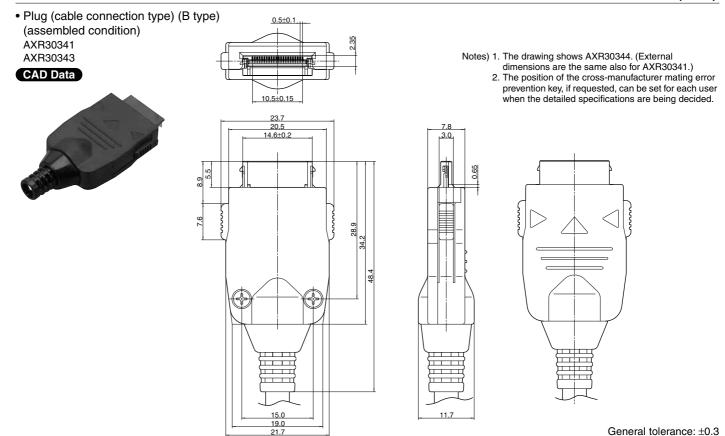
General tolerance: ±0.3

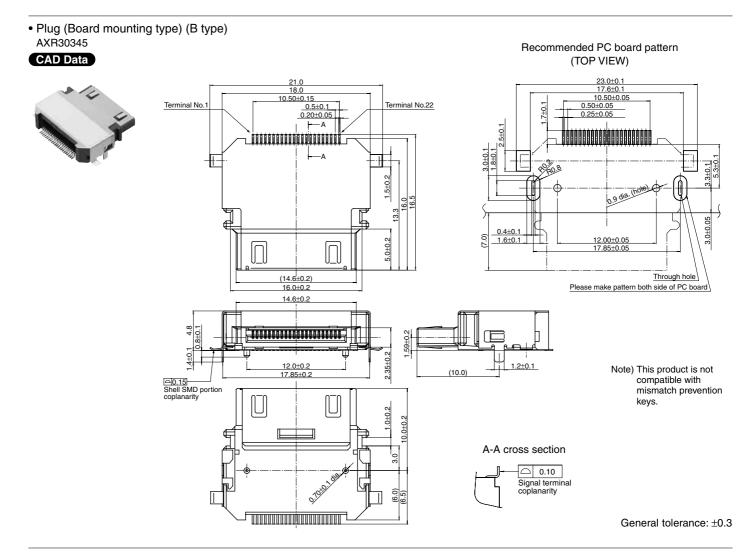
Recommended PC board pattern (TOP VIEW)



Notes) 1. The position of the cross-manufacturer mating error prevention key, if requested, can be set for each user when the detailed specifications are being decided.

2. Since product bottom is a metal shell, do not make pattern circuits (to prevent shorting).





• Plug (Board mounting type) (A type) AXR3034A

12.55

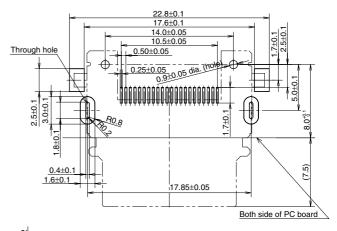
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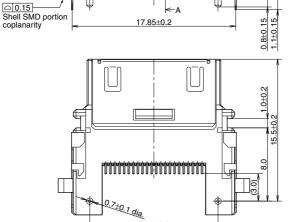
mm General tolerance: ±0.3

CAD Data



Recommended PC board pattern (TOP VIEW)





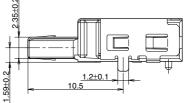
18.0 10.5±0.15

(14.6±0.2)

16.0±0.2 14.6±0.2

ВĪ

5.5±0.2



A-A cross section -[<u>0.10</u>] Signal terminal coplanarity

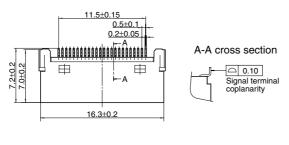
B-B cross section (4.4)

3. Signal terminals 24 contacts/On board mounting type

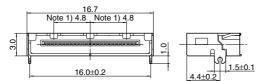
• Receptacle (A type) AXR51248P







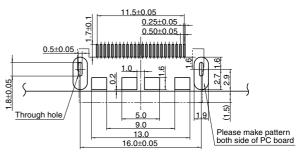
14.0±0.2



(#) The dimensions for the improper connection prevention key are set

mm General tolerance: ±0.3

Recommended PC board pattern (TOP VIEW)



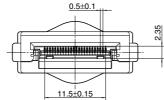
Notes) 1. The position of the cross-manufacturer mating error prevention key, if requested, can be set for each user when the detailed specifications are being decided. 2. Since product bottom is a metal shell, do not make pattern circuits (to prevent shorting).

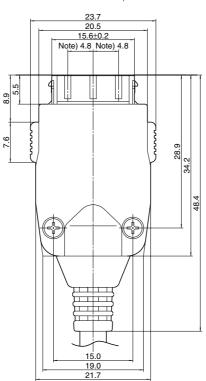
mm General tolerance: ±0.3

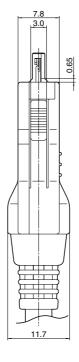
• Plug (cable connection type) (B type) (assembled condition)

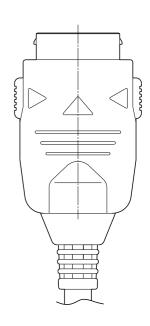
AXR30444











Note) The position of the cross-manufacturer mating error

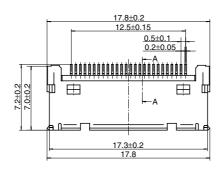
prevention key, if requested, can be set for each user when the detailed specifications are being decided.

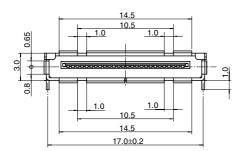
4. Signal terminals 26 contacts/On board mounting type

• Receptacle (A type)

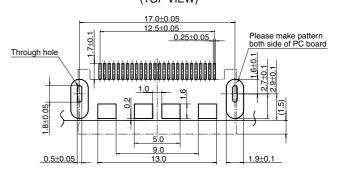
AXR51268P CAD Data



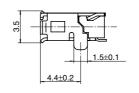


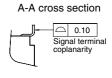


Recommended PC board pattern (TOP VIEW)



Note) Since product bottom is a metal shell, do not make pattern circuits (to prevent shorting).





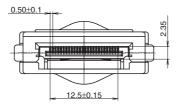
mm General tolerance: ±0.3

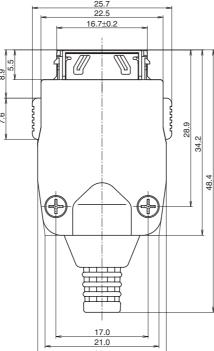
mm General tolerance: ±0.3

 Plug (cable connection type) (B type) (assembled condition)

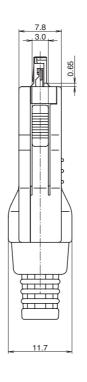
ÀXR30541

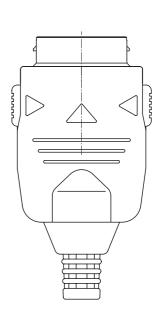






Note) This product is not compatible with mismatch prevention keys.



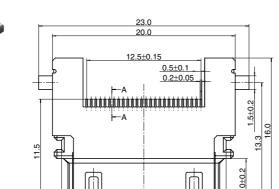


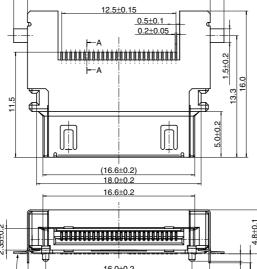
mm General tolerance: ±0.3

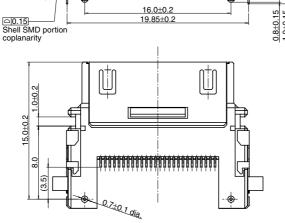
• Plug (Board mounting type) (B type) AXR30545



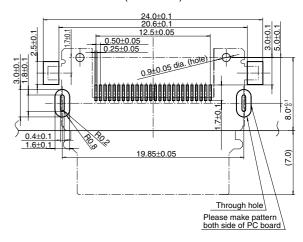




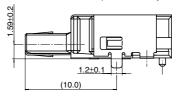




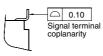
Recommended PC board pattern (TOP VIEW)



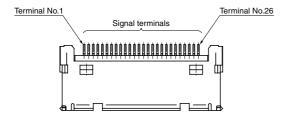
Note) This product is not compatible with mismatch prevention keys.





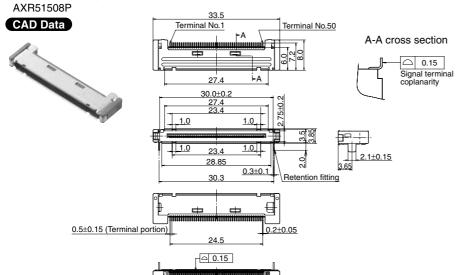


No. of signal terminal (A type)



5. Signal terminals 50 contacts/On board mounting type

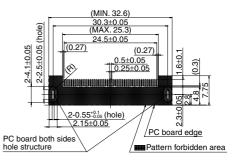
• Receptacle (A type)



Lot display

mm General tolerance: ±0.3

Recommended PC board pattern (TOP VIEW)



Notes)

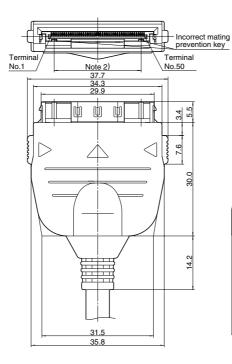
- 1. The values in parenthesis are reference dimensions.
- 2. To reinforce the shell portion of the receptacle, have the shell guided by the casing in some way. The gap between the device casing and receptacle should be constructed to be very small, for example, under 0.1 mm.
- 3. The dimensions of the cross-manufacturer mating error prevention key, if requested, can be set for each user.

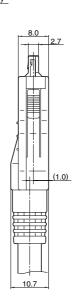
• Plug (cable connection type) (A type) (assembled condition) **AXR5256S AXR5257S**

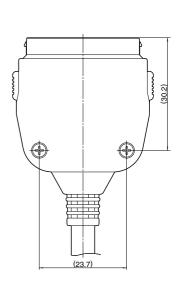
mm General tolerance: ±0.3







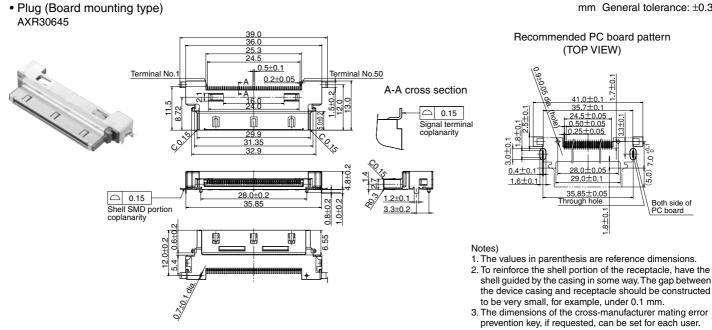




- 1. The values in parenthesis are reference dimensions.
- 2. The dimensions of the cross-manufacturer mating error prevention key, if requested, can be set for each user.

Both side of PC board

mm General tolerance: ±0.3



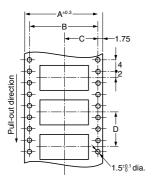
APPLICATIONS

Products can be made to match your applications, so please contact us if necessary. A type products (18, 22 and 26 contacts) B type products (50 contacts)

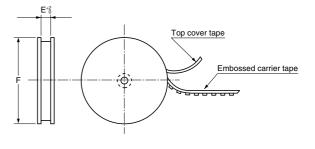


EMBOSSED TAPE DIMENSIONS (unit: mm)

• Tape dimensions (Conforming to JIS C 0806, 1995. However, some tapes have mounting hole pitches that do not comply with the standard.)



• Reel dimensions (Conforming to JIS C 0806, 1995)



1. Receptacle

	А	В	С	D	Е	F	Quantity per reel
I/O connector for portable equipment 18, 22, 24 and 26 contacts	32.0	28.4	14.2	16.0	32.4	370 dia.	1,000
I/O connector for portable equipment 50 contacts	44.0	40.4	20.2	16.0	44.4	370 dia.	750

2. Plug (PC board mounting type)

	А	В	С	D	Е	F	Quantity per reel
22 and 26 contacts	44.0	40.4	20.2	24.0	44.4	370 dia.	500
50 contacts	56.0	52.4	26.2	24.0	56.4	370 dia.	500

• Connector orientation with respect to direction of progress of embossed tape

Type Direction of tape progress	I/O connector for portable equipment Receptacle	Plug (Board mounting type)
↓		

For other details, please verify with the product specification sheets.

单击下面可查看定价,库存,交付和生命周期等信息

>>Panasonic(松下)