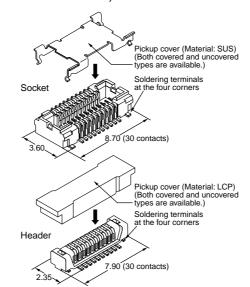
FOR BOARD-TO-BOARD AND BOARD-TO-FPC CONNECTION

This will contribute to weight and size savings in devices. (Comparison made with 30 contacts.)



2. Strong resistance to adverse environments! Utilizes "TOUGH CONTRET" construction for high contact reliability.

(See Page 6 for details of the structure)

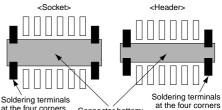
Note: If extra resistance to shock caused by dropping is required, we recommend using our previous P4 Series.

3. Greater flexibility in connector placement.

Pattern wiring to the connector bottom is possible because the undersurface of the connector is constructed with a molded covering.

NARROW PITCH (0.4mm)

CONNECTORS P4S SERIÉS



at the four corners Connector bottom:

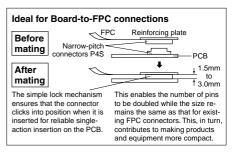
Create any thru-hole and pattern wiring

4. Automatic mounting inspection is facilitated by the gull-wing terminal shape which makes mounting verification easy.

5. Connectors for inspection available Connectors are available that are ideal for inspection in module unit inspection and device assembly processes.

APPLICATIONS

Compact portable devices "Cellular phones, DVC, Digital cameras, etc"



FEATURES

Socket

1. Space saving

Compared to the currently sold P4 series with soldering terminal, 38% space is saved in the socket and 34% space saved in the header.

Panasonic

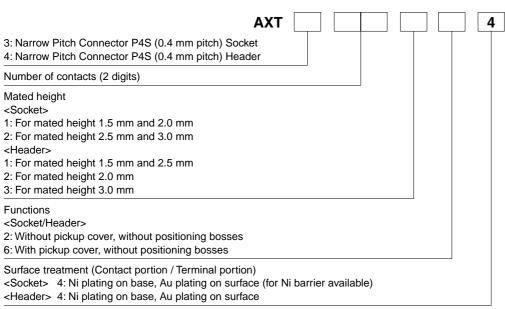
ideas for life

Compliance with RoHS Directive

IGH EONTRE

Header

ORDERING INFORMATION



AXT3, 4 PRODUCT TYPES TOUGH CONTRET

Motod boight	Number of contests	Part	number	Pac	king		
Mated height	Number of contacts	Socket	Header	Inner carton	Outer carton		
	10	AXT310124	AXT410124				
	16	AXT316124	AXT416124				
	20	AXT320124	AXT420124				
	22	AXT322124	AXT422124				
	24	AXT324124	AXT424124				
	26	AXT326124	AXT426124				
	28	AXT328124	AXT428124				
	30	AXT330124	AXT430124				
	32	AXT332124	AXT432124				
	34	AXT334124	AXT434124				
	36	AXT336124	AXT436124				
1 5 mm	38	AXT338124	AXT438124	2 000 pieces	6 000 pieces		
1.5mm	40	AXT340124	AXT440124	3,000 pieces	6,000 pieces		
	44	AXT344124	AXT444124				
	46	AXT346124	AXT446124				
	50	AXT350124	AXT450124				
	54	AXT354124	AXT454124				
2.0mm	56	AXT356124	AXT456124				
	60	AXT360124	AXT460124				
	64	AXT364124	AXT464124				
	70	AXT370124	AXT470124				
	80	AXT380124	AXT480124				
	90	AXT390124	AXT490124				
	100	AXT300124	AXT400124				
2.0mm	40	AXT340124	AXT440224	2 000 pieces	6 000 pieces		
2.000	100	AXT300124	AXT400224	3,000 pieces	6,000 pieces		
	20	AXT320224	AXT420124				
	30	AXT330224	AXT430124				
2.5mm	56	AXT356224	AXT456124	3 000 pieces	6,000 pieces		
2.300	60	AXT360224	AXT460124	3,000 pieces			
	80	AXT380224	AXT480124				
	100	AXT300224	AXT400124				
	20	AXT320224	AXT420324				
	30	AXT330224	AXT430324				
	42	AXT342224	AXT442324				
3.0mm	56	AXT356224	AXT456324	3 000 pieces	6,000 pieces		
5.000	60	AXT360224	AXT460324	3,000 pieces			
	80	AXT380224	AXT480324				
	100	AXT300224	AXT400324	3,000 pieces 6,000 3,000 pieces 6,000 3,000 pieces 6,000 3,000 pieces 6,000			
	120	AXT3A2224	AXT4A2324	1			

Notes: 1. Regarding ordering units; During production: Please make orders in 1-reel units. Samples for mounting confirmation: Available in units of 50 pieces. Please consult us. (See "Regarding sample orders to confirm proper mounting" on page 150.) Samples: Small lot orders are possible. Please consult us.
2. If you require the pickup cover, change the eighth digit of the part number from "2" to "6" in your order. Note that the pickup cover is not available for some types depending on the number of contacts. Check the latest product specifications.

3. The above part numbers are for connectors without positioning bosses, which are standard. When ordering connectors with positioning bosses, please contact our sales office.

4. Connectors of different mated height and different number of contacts are available on-demand production only. Please contact us for more details.

SPECIFICATIONS

1. Characteristics

	Item	Specifications	Conditions
	Rated current	0.3A/contact (Max. 5 A at total contacts)	_
	Rated voltage	60V AC/DC	—
	Breakdown voltage	150V AC for 1 min.	Rated voltage is applied for one minute and check for short circuit or damage with a detection current of 1mA.
	Insulation resistance	Min. 1,000MΩ (initial)	Using 250V DC megger (applied for 1 min.)
	Contact resistance	Max. 90mΩ	Based on the contact resistance measurement method specified by JIS C 5402.
	Ambient temperature	–55°C to +85°C	No freezing at low temperatures
	Soldering heat resistance	Max. peak temperature of 260°C (on the surface of the PC board around the connector terminals)	Infrared reflow soldering
		300°C within 5 sec. or 350°C within 3 sec.	Soldering iron
Electrical characteristics	Storage temperature	-55°C to +85°C (product only) -40°C to +50°C (emboss packing)	No freezing at low temperatures
	Thermal shock resistance (header and socket mated)	5 cycles, insulation resistance min. 100M Ω , contact resistance max. 90m Ω	Sequence 1. –55 - ⁰ / ₃ °C, 30 minutes 2. ~, Max. 5 minutes 3. 85* ³ °C, 30 minutes 4. ~, Max. 5 minutes
	Humidity resistance (header and socket mated)	120 hours, insulation resistance min. 100MΩ, contact resistance max. $90mΩ$	Temperature 40±2°C, humidity 90 to 95% R.H.
Electrical F characteristics I Environmental characteristics I characteristics I Lifetime characteristics I	Saltwater spray resistance (header and socket mated)	24 hours, insulation resistance min. 100M Ω , contact resistance max. 90m Ω	Temperature 35±2°C, saltwater concentration 5±1%
	H ₂ S resistance (header and socket mated)	48 hours, contact resistance max. 90m Ω	Temperature $40\pm2^{\circ}$ C, gas concentration 3 ± 1 ppm, humidity 75 to 80% R.H.
	Insertion and removal life	50 times	Repeated insertion and removal speed of max. 200 times/hours
Unit weight		Mated height 1.5mm, 20-contact type: Socket: 0.04 g Header: 0.02 g	

2. Material and surface treatment

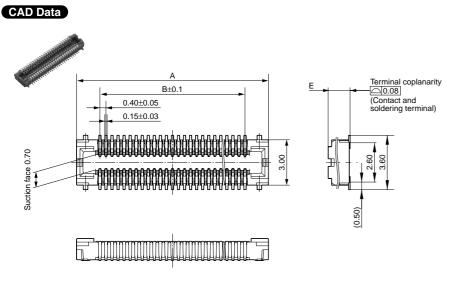
Part name	Material	Surface treatment
Molded portion	LCP resin (UL94V-0)	_
Contact and Post	Copper alloy	Contact portion: Ni plating on base, Au plating on surface Terminal portion: Ni plating on base, Au plating on surface (Except for front edge of terminal) However, the area adjacent to the socket terminal is exposed to Ni on base. Soldering terminal portion; Socket: Ni plating on base, Pd + Au flash plating on surface (Expect for front edge of terminal) Header: Ni plating on base, Au plating on surface (Expect for front edge of terminal)

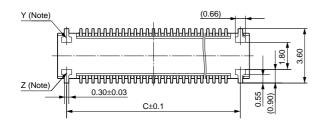
AXT3, 4

DIMENSIONS (Unit: mm)

1. Socket (Mated height: 1.5mm, 2.0mm, 2.5mm, 3.0mm)

Without pickup cover





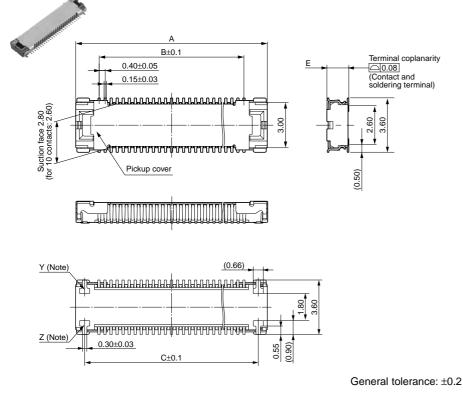
Number of contacts/ dimension	А	В	С
10	4.7	1.6	3.5
16	5.9	2.8	4.7
20	6.7	3.6	5.5
22	7.1	4.0	5.9
24	7.5	4.4	6.3
26	7.9	4.8	6.7
28	8.3	5.2	7.1
30	8.7	5.6	7.5
32	9.1	6.0	7.9
34	9.5	6.4	8.3
36	9.9	6.8	8.7
38	10.3	7.2	9.1
40	10.7	7.6	9.5
42	11.1	8.0	9.9
44	11.5	8.4	10.3
46	11.9	8.8	10.7
50	12.7	9.6	11.5
54	13.5	10.4	12.3
56	13.9	10.8	12.7
60	14.7	11.6	13.5
64	15.5	12.4	14.3
70	16.7	13.6	15.5
80	18.7	15.6	17.5
90	20.7	17.6	19.5
100	22.7	19.6	21.5
120	26.7	23.6	25.5

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

Dimension table (mm)

Mated height/ dimension	E
1.5mm	1.45
2.0mm	1.45
2.5mm	2.45
3.0mm	2.45

• With pickup cover



Note: Since soldering terminals are built into the body, the Y and Z parts are connected electrically.

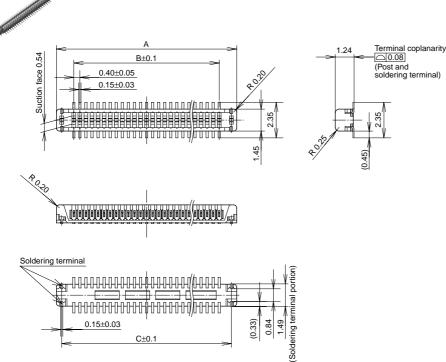
General tolerance: ±0.2

2. Header (Mated height: 1.5mm, 2.5mm)

• Without pickup cover

CAD Data

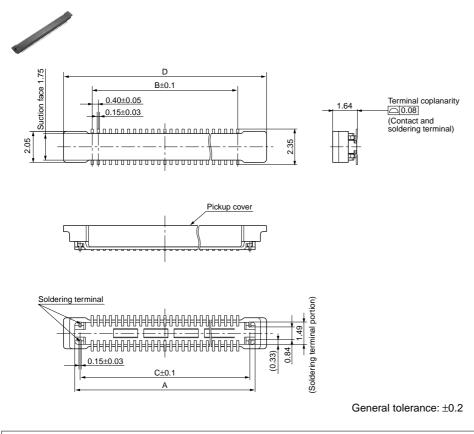




Dimension table (mm)												
Number of contacts/ dimension	А	В	С	D								
10	3.9	1.6	3.2	5.4								
16	5.1	2.8	4.4	6.6								
20	5.9	3.6	5.2	7.4								
22	6.3	4.0	5.6	7.8								
24	6.7	4.4	6.0	8.2								
26	7.1	4.8	6.4	8.6								
28	7.5	5.2	6.8	9.0								
30	7.9	5.6	7.2	9.4								
32	8.3	6.0	7.6	9.8								
34	8.7	6.4	8.0	10.2								
36	9.1	6.8	8.4	10.6								
38	9.5	7.2	8.8	11.0								
40	9.9	7.6	9.2	11.4								
44	10.7	8.4	10.0	12.2								
46	11.1	8.8	10.4	12.6								
50	11.9	9.6	11.2	13.4								
54	12.7	10.4	12.0	14.2								
56	13.1	10.8	12.4	14.6								
60	13.9	11.6	13.2	15.4								
64	14.7	12.4	14.0	-								
70	15.9	13.6	15.2	17.4								
80	17.9	15.6	17.2	19.4								
90	19.9	17.6	19.2	21.4								
100	21.9	19.6	21.2	23.4								

General tolerance: ± 0.2

• With pickup cover

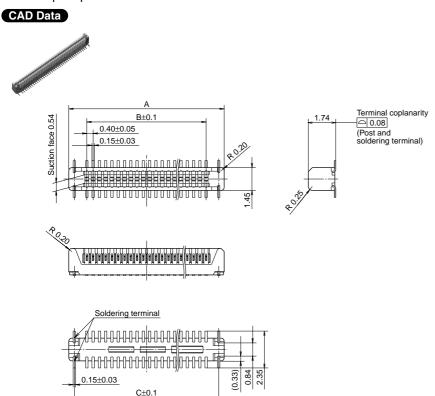


Note: The soldering terminal dimensions of headers with mating heights of 1.5mm/2.5mm and 2.0mm/3.0mm are different.

AXT3, 4

3. Header (Mated height: 2.0mm)

Without pickup cover



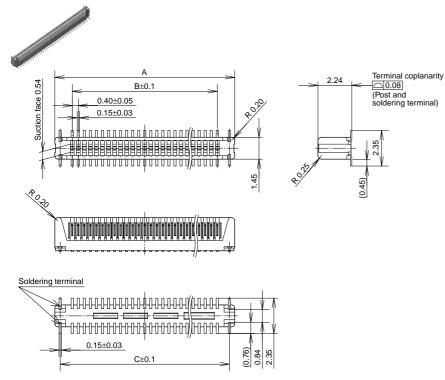
Dimension table	(mm)
-----------------	------

Number of contacts/ dimension	А	В	С	D
40	9.9	7.6	9.2	-
90	19.9	17.6	19.2	-
100	21.9	19.6	21.2	-

4. Header (Mated height: 3.0mm)

Without pickup cover

CAD Data



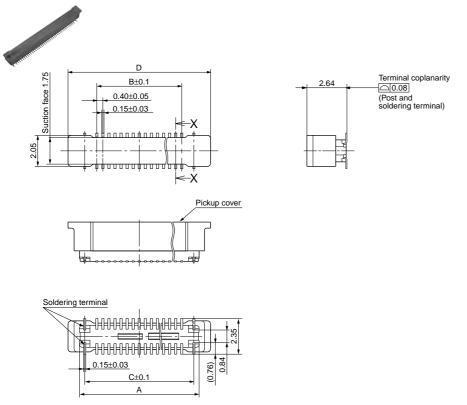
Dimension t	able (r	mm)
-------------	---------	-----

Number of contacts/ dimension	А	В	С	D
20	5.9	3.6	5.2	-
30	7.9	5.6	7.2	9.4
42	10.3	8.0	9.6	-
56	13.1	10.8	12.4	-
60	13.9	11.6	13.2	-
80	17.9	15.6	17.2	19.4
100	21.9	19.6	21.2	-
120	25.9	23.6	25.2	-

General tolerance: ± 0.2

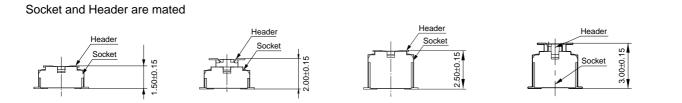
General tolerance: ±0.2

• With pickup cover



General tolerance: ±0.2

Note: The soldering terminal dimensions of headers with mating heights of 1.5mm/2.5mm and 2.0mm/3.0mm are different.

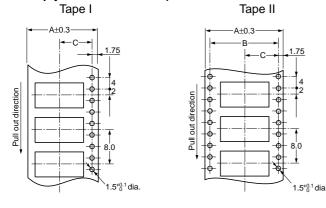


Panasonic Electric Works Automation Controls Business Unit panasonic-electric-works.net/ac

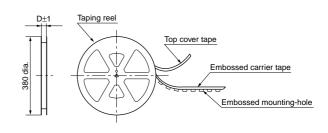
AXT3, 4

EMBOSSED TAPE DIMENSIONS (unit: mm, Common for respective contact type, socket and header)

• Tape dimensions (Conforming to JIS C 0806-1990. However, some tapes have mounting hole pitches that do not comply with the standard.)



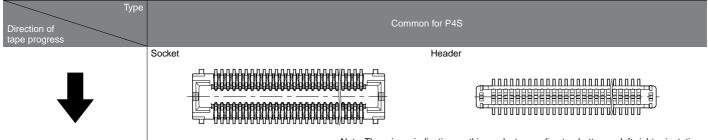
Common for respective contact type, socket and header) • Plastic reel dimensions (Conforming to EIAJ ET-7200B)



Dimension table (mm)

Mated height	Number o	f contacts						
	Socket (with/without pickup cover) Header (without pickup cover)	Header (with pickup cover)	Type of taping	А	В	С	D	Quantity per reel
Common for	Max. 24	Max. 24	Tape I	16.0	—	7.5	17.5	3,000
socket and header:	26 to 70	26 to 64	Tape I	24.0	_	11.5	25.5	3,000
1.5mm, 2.0mm,	72 to 100	66 to 90	Tape II	32.0	28.4	14.2	33.5	3,000
2.5mm and 3.0mm	120	100	Tape II	44.0	40.4	20.2	45.5	3,000

Connector orientation with respect to direction of progress of embossed tape



Note: There is no indication on this product regarding top-bottom or left-right orientation.





Compliance with RoHS Directive

CONNECTOR FOR INSPECTION USAGE APPLICATIONS WITH 3,000 INSERTION AND REMOVAL TIMES

FEATURES

 3,000 insertion and removals (when as recommended)
 Same external dimensions and foot pattern as standard type.
 Improved mating Insertion and removal have become easier due to a reduction in the mating retention force required by the simple locking structure and also in the amount of force needed for insertion and removal. (We cannot warrant anything

APPLICATIONS

Ideal for module unit inspection and equipment assembly inspection

NARROW PITCH CONNECTOR P4S

(0.4 mm PITCHES) FOR INSPECTION USAGE

TABLE OF PRODUT TYPES

$\mathop{ \, \mathrm{s}}\nolimits$: Available for sale

Product name	Number of contacts																					
P4S	10	16	20	22	24	26	28	30	32	34	36	38	40	44	50	54	56	60	70	80	90	100
for inspection	☆	☆	☆	☆	☆	☆	☆	☆	☆	Å	☆	☆	র্ম	☆	☆	☆	☆	☆	☆	☆	\$7	☆

regarding mating retention.)

Notes: 1. You can use with each mated height in common.

2. The pickup surface shape of the inspection sockets is different from that of the standard sockets. (For details, refer to the product specification diagram.)

3. Please inquire about numbers of contacts other than those given above.

4. Please inquire with us regarding delivery times.

5. Please keep the minimum unit for ordering no less than 50 pieces per lot.

6. Please inquire for further information.

PRODUCT TYPES

Specifications			Part No.	Specifications			Part No.
Socket	With pickup cover	Without positioning bosses	AXT3E**66	Header	With pickup cover	Without positioning bosses	AXT4E**66
	No pickup cover	Without positioning bosses	AXT3E**26		No pickup cover	Without positioning bosses	AXT4E**26

Notes: 1. When placing an order, substitute the "*" (asterisk) in the above part number with the number of contacts for the required connector.

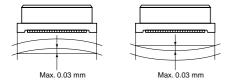
2. The above part numbers are for connectors without positioning bosses, which are standard. When ordering connectors with positioning bosses, please contact our sales office.

NOTES

1. As shown below, excess force during insertion may result in damage to the connector or removal of the solder. Please be careful. Also, to prevent connector damage please confirm the correct position before mating connectors.



2. Keep the PC board warp no more than 0.03mm in relation to the overall length of the connector.



3. If extra resistance to shock caused by dropping is required, we recommend using our previous P4 Series.

4. PC Boards and Recommended Metal Mask Patterns

Connectors are mounted with high density, with a pitch interval of 0.4 to 0.5mm.

In order to reduce solder bridge and other issues make sure the proper levels of solder are used.

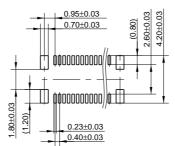
The figures to the right are recommended metal mask patterns.

Please use them as a reference.

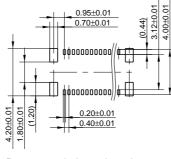
Socket

(Mated height: 1.5mm, 2.0mm, 2.5mm and 3.0mm)

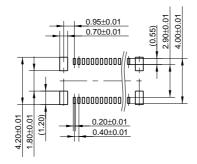
Recommended PC board pattern (TOP VIEW)



Recommended metal mask pattern Metal mask thickness: Here, 150 μm (Terminal portion opening area ratio: 48%) (Metal portion opening area ratio: 100%)



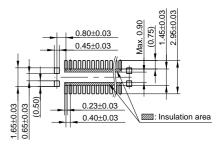
Recommended metal mask pattern Metal mask thickness: Here, 120 μm (Terminal portion opening area ratio: 60%) (Metal portion opening area ratio: 100%)



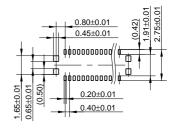
Header

(Mated height: 1.5mm and 2.5mm)

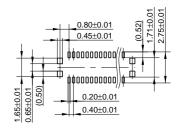
Recommended PC board pattern (TOP VIEW)



Recommended metal mask pattern Metal mask thickness: Here, 150 μm (Terminal portion opening area ratio: 49%) (Metal portion opening area ratio: 100%)

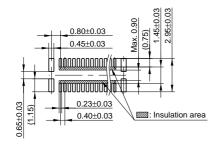


Recommended metal mask pattern Metal mask thickness: Here, 120 μm (Terminal portion opening area ratio: 60%) (Metal portion opening area ratio: 100%)

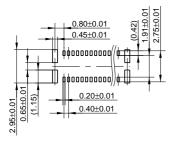


Header

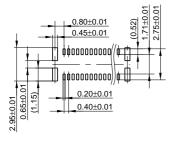
(Mated height: 2.0mm, 3.0mm) Recommended PC board pattern (TOP VIEW)



Recommended metal mask pattern Metal mask thickness: Here, 150 μ m (Terminal portion opening area ratio: 49%) (Metal portion opening area ratio: 100%)



Recommended metal mask pattern Metal mask thickness: Here, 120 μm (Terminal portion opening area ratio: 60%) (Metal portion opening area ratio: 100%)



Note: The recommended PC board pattern diagrams and metal mask pattern diagrams for headers with mating heights of 1.5 mm/ 2.5 mm and 2.0 mm/3.0 mm are different.

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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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 MDF7

 20DP-2.54DSA
 MDF7-26D-2.54DSA(55)
 MDF7-3P-2.54DSA(01)
 MDF7B-20P-2.54DSA(01)
 MDF7B-3P-2.54DSA(55)
 MDF7C-18P

 2.54DSA(55)
 MDF7P-5P-2.54DSA(55)
 75234-0516
 FCN-230C068-11
 FCN-268F012-G/BD
 FCN-268F036-G/BD
 FCN-268M012-G/0D

 FCN-268M024-G/1D
 FCN-360C008-C
 FCN-723J004/1
 MIS-048-01-F-D-DP-K
 832-10-034-10-001000
 93696-325LF
 11828-1FA

 AXK630345P
 18097-0013
 2007042-2
 304400-2
 FCN-214Q030-G/0
 FCN-215Q040-G/0
 FCN-230C068-ESA
 FCN-234P048-G/0
 FCN

 235D050-G/C
 FCN-360A3
 FCN-360C040-B
 210-93-314-41-105000
 2-22603-0
 379-064-521-202
 MDF7-12P-2.54DSA(01)
 MDF7-16P

 2.54DS(56)
 MDF7-16P-2.54DSA(55)
 MDF7-40DP-2.54DSA(55)
 MDF7-8P-2.54DSA(55)
 AXG720047
 5031084030
 55323-1519
 DF33-2P

 3.3DSA(24)
 DF33-2S-3.3C
 MDF3-2S-3.3C
 MDF7-40DP-2.54DSA(55)
 MDF7-8P-2.54DSA(55)
 AXG720047
 5031084030
 55323-1519
 DF33-2P